

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
Form 20-F**

(Mark One)

- REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR (g) OF THE SECURITIES EXCHANGE ACT OF 1934
- OR
- ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended December 31, 2015
- OR
- TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
- OR
- SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
Date of event requiring this shell company report \_\_\_\_\_  
For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission file number 1-13368

**POSCO**

*(Exact name of Registrant as specified in its charter)*

<b>POSCO</b>	<b>The Republic of Korea</b>
<i>(Translation of Registrant's name into English)</i>	<i>(Jurisdiction of incorporation or organization)</i>
<b>POSCO Center, 440 Teheran-ro, Gangnam-gu</b>	
<b>Seoul, Korea 06194</b>	
<i>(Address of principal executive offices)</i>	
<b>Kee, Hyojin</b>	
<b>POSCO Center, 440 Teheran-ro, Gangnam-gu,</b>	
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*(Name, telephone, e-mail and/or facsimile number and address of company contact person)*

Securities registered or to be registered pursuant to Section 12(b) of the Act.

<u>Title of Each Class</u>	<u>Name of Each Exchange on Which Registered</u>
American Depositary Shares, each representing one-fourth of one share of common stock	New York Stock Exchange, Inc.
Common Stock, par value Won 5,000 per share *	New York Stock Exchange, Inc. *
Securities registered or to be registered pursuant to Section 12(g) of the Act.	
<b>None</b>	
Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act.	
<b>None</b>	

**As of December 31, 2015, there were 79,995,648 shares of common stock, par value Won 5,000 per share, outstanding (not including 7,191,187 shares of common stock held by the company as treasury shares)**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes  No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. Yes  No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of "accelerated filer and large accelerated filer" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer  Accelerated filer  Non-accelerated filer

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing. U.S. GAAP  IFRS  Other

If "Other" has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow. Item 17  Item 18

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

\* Not for trading, but only in connection with the registration of the American Depositary Shares.

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## GLOSSARY

“ADR”	American Depositary Receipt evidencing ADSs.
“ADR depositary”	Citibank, N.A.
“ADS”	American Depositary Share representing one-fourth of one share of Common Stock.
“Australian Dollar” or “A\$”	The currency of the Commonwealth of Australia.
“Commercial Code”	Commercial Code of the Republic of Korea.
“common stock”	Common stock, par value Won 5,000 per share, of POSCO.
“deposit agreement”	Deposit Agreement, dated as of July 19, 2013, among POSCO, the ADR Depositary and all holders and beneficial owners from time to time of ADRs issued thereunder.
“Dollars,” “\$” or “US\$”	The currency of the United States of America.
“FSCMA”	Financial Investment Services and Capital Markets Act of the Republic of Korea.
“Government”	The government of the Republic of Korea.
“IASB”	International Accounting Standards Board.
“IFRS”	International Financial Reporting Standards.
“Yen” or “JPY”	The currency of Japan.
“Korea”	The Republic of Korea.
“Korean GAAP”	Generally accepted accounting principles in the Republic of Korea.
“Gwangyang Works”	Gwangyang Steel Works.
“We”	POSCO and its consolidated subsidiaries.
“Pohang Works”	Pohang Steel Works.
“POSCO Group”	POSCO and its consolidated subsidiaries.
“Renminbi”	The currency of the People’s Republic of China.
“Securities Act”	The United States Securities Act of 1933, as amended.
“Securities Exchange Act”	The United States Securities Exchange Act of 1934, as amended.
“SEC”	The United States Securities and Exchange Commission.
“tons”	Metric tons (1,000 kilograms), equal to 2,204.6 pounds.
“U.S. GAAP”	Generally accepted accounting principles in the United States of America.
“Won” or “₩”	The currency of the Republic of Korea.

Any discrepancies in any table between totals and the sums of the amounts listed are due to rounding.

## PART I

### **Item 1. *Identity of Directors, Senior Managers and Advisers***

#### **Item 1.A. *Directors and Senior Management***

**Not applicable**

#### **Item 1.B. *Advisers***

**Not applicable**

#### **Item 1.C. *Auditor***

**Not applicable**

### **Item 2. *Offer Statistics and Expected Timetable***

**Not applicable**

#### **Item 2.A. *Offer Statistics***

**Not applicable**

#### **Item 2.B. *Method and Expected Timetable***

**Not applicable**

### **Item 3. *Key Information***

#### **Item 3.A. *Selected Financial Data***

The selected financial data presented below should be read in conjunction with our Consolidated Financial Statements and related notes thereto and “Item 5. Operating and Financial Review and Prospects” included elsewhere in this annual report. The selected financial data in Won as of December 31, 2014 and 2015 and for each of the years in the three-year period ended December 31, 2015 were derived from our Consolidated Financial Statements included elsewhere in this annual report. Our Consolidated Financial Statements are prepared in accordance with IFRS as issued by the IASB.

In addition to preparing financial statements in accordance with IFRS as issued by the IASB included in this annual report, we also prepare financial statements in accordance with Korean International Financial Reporting Standards (“K-IFRS”) as adopted by the Korean Accounting Standards Board (the “KASB”), which we are required to file with the Financial Services Commission and the Korea Exchange under the FSCMA. English translations of such financial statements are furnished to the SEC under Form 6-K. During the three years ended December 31, 2015, we are required to adopt certain amendments and interpretations to K-IFRS, relating to presentation of operating profit. Additionally, under K-IFRS, revenue from the development and sale of certain real estate is recognized using the percentage of completion method. However, under IFRS as issued by the IASB, revenue from the development and sale of real estate is recognized when an individual unit of residential real estate is delivered to the buyer. As a result, our consolidated statements of comprehensive income and our consolidated statements of financial position prepared in accordance with IFRS as issued by the IASB included in this annual report differ from our consolidated statements of comprehensive income and consolidated statements of financial position prepared in accordance with K-IFRS. See “Item 5.A. Operating Results — Explanatory Note Regarding Presentation of Certain Financial Information under K-IFRS.”

The information set forth below is not necessarily indicative of the results of future operations and should be read in conjunction with “Item 5. Operating and Financial Review and Prospects” and our consolidated financial statements and related notes included in this annual report.

### Selected consolidated statement of comprehensive income data

	For the Year Ended December 31,					
	2011	2012	2013	2014	2015	2015
	(In billions of Won and millions of Dollars, except per share data)					
Revenue <sup>(1)</sup> .....	₩ 68,890	₩ 63,345	₩ 61,766	₩ 64,759	₩ 58,522	US\$ 49,934
Cost of sales <sup>(2)</sup> .....	59,784	55,921	54,914	57,465	52,018	44,384
Gross profit .....	9,105	7,425	6,852	7,293	6,504	5,549
Administrative expenses .....	2,035	2,129	2,232	2,310	2,395	2,044
Selling expenses .....	1,612	1,679	1,632	1,760	1,729	1,475
Other operating income .....	307	448	229	269	549	468
Other operating expenses .....	367	809	651	980	1,442	1,231
Operating profit .....	5,398	3,255	2,566	2,513	1,486	1,268
Share of profit (loss) of equity-accounted investees, net .....	51	(23)	(180)	(300)	(506)	(432)
Finance income .....	3,190	2,897	2,381	2,397	2,557	2,182
Finance costs .....	3,867	2,798	2,829	3,222	3,387	2,890
Profit before income tax .....	4,773	3,332	1,938	1,388	150	128
Income tax expense .....	1,066	974	589	824	267	227
Profit .....	3,707	2,358	1,349	564	(116)	(99)
Total comprehensive income .....	2,435	1,720	1,363	108	(278)	(237)
Profit (loss) for the period attributable to:						
Owners of the controlling company .....	3,641	2,437	1,371	633	171	146
Non-controlling interests .....	65	(79)	(22)	(69)	(288)	(245)
Total comprehensive income (loss) attributable to:						
Owners of the controlling company .....	2,524	1,887	1,439	182	24	20
Non-controlling interests .....	(89)	(167)	(75)	(73)	(302)	(258)
Basic and diluted earnings per share <sup>(3)</sup> ..	47,138	31,552	17,338	7,514	1,731	1.48
Dividends per share of common stock ..	10,000	8,000	8,000	8,000	8,000	
Dividends per share of common stock (in Dollars) <sup>(4)</sup> .....	US\$ 8.67	US\$ 7.47	US\$ 7.58	US\$ 7.28	US\$ 6.83	

### Selected consolidated statements of financial position data

	As of December 31,					
	2011	2012	2013	2014	2015	2015
	(In billions of Won and millions of Dollars)					
Working capital <sup>(5)</sup> .....	₩ 13,942	₩ 11,993	₩ 11,681	₩ 10,833	₩ 9,148	US\$ 7,806
Total current assets .....	33,547	31,817	32,039	33,208	29,502	25,172
Property, plant and equipment, net .....	28,453	32,276	35,760	35,241	34,523	29,456
Total non-current assets .....	44,854	47,711	52,802	52,636	51,246	43,725
Total assets .....	78,401	79,527	84,841	85,844	80,748	68,898
Short-term borrowings and current portion of long-term borrowings .....	10,792	10,509	10,714	12,195	12,371	10,555
Long-term borrowings, excluding current portion .....	16,020	14,412	15,533	15,233	12,849	10,963
Total liabilities .....	37,679	37,133	39,060	40,586	35,735	30,490
Share capital .....	482	482	482	482	482	412
Total equity .....	40,722	42,394	45,781	45,257	45,013	38,407

## Selected consolidated statements of cash flows data

	For the Year Ended December 31,					
	2011	2012	2013	2014	2015	2015
	(In billions of Won and millions of Dollars)					
Net cash provided by operating activities . . . . .	₩ 1,692	₩ 7,319	₩ 4,858	₩ 3,412	₩ 7,602	US\$ 6,486
Net cash used in investing activities . . . . .	(5,517)	(6,169)	(8,752)	(3,745)	(4,535)	(3,869)
Net cash provided by (used in) financing activities . . . . .	4,900	(908)	3,532	135	(2,242)	(1,913)
Net increase (decrease) in cash and cash equivalents . . . . .	1,078	82	(472)	(186)	849	724
Cash and cash equivalents at beginning of the year . . . . .	3,521	4,599	4,681	4,209	4,022	3,432
Cash and cash equivalents at end of the year . . . . .	4,599	4,681	4,209	4,022	4,871	4,156

- (1) Includes sales by our consolidated subsidiaries of steel products purchased by such subsidiaries from third parties, including trading companies to which we sell steel products.
- (2) Includes purchases of steel products by our consolidated subsidiaries from third parties, including trading companies to which we sell steel products.
- (3) See Note 36 of Notes to Consolidated Financial Statements for method of calculation. The weighted average number of common shares outstanding used to calculate basic and diluted earnings per share was 77,251,818 shares as of December 31, 2011, 77,244,444 shares as of December 31, 2012, 78,009,654 shares as of December 31, 2013, 79,801,539 shares as of December 31, 2014 and 79,993,834 shares as of December 31, 2015.
- (4) Translated into Dollars by applying the exchange rate at the end of the applicable year as announced by Seoul Money Brokerage Services, Ltd.
- (5) "Working capital" means current assets minus current liabilities.

## EXCHANGE RATE INFORMATION

The following table sets out information concerning the market average exchange rate for the periods and dates indicated.

Period	At End of Period	Average Rate <sup>(1)</sup>	High	Low
		(Per US\$1.00)		
2011 . . . . .	1,153.3	1,108.1	1,199.5	1,049.5
2012 . . . . .	1,071.1	1,126.9	1,181.8	1,071.1
2013 . . . . .	1,055.3	1,095.0	1,159.1	1,051.5
2014 . . . . .	1,099.2	1,053.2	1,118.3	1,008.9
2015 . . . . .	1,172.0	1,131.5	1,203.1	1,068.1
October . . . . .	1,142.3	1,148.2	1,190.4	1,125.3
November . . . . .	1,150.4	1,152.0	1,173.4	1,129.5
December . . . . .	1,172.0	1,172.2	1,186.1	1,156.8
2016 (through April 27) . . . . .	1,149.7	1,189.1	1,240.9	1,132.3
January . . . . .	1,208.4	1,201.7	1,212.7	1,172.0
February . . . . .	1,235.4	1,217.4	1,236.1	1,195.1
March . . . . .	1,153.5	1,188.2	1,240.9	1,153.5
April (through April 27) . . . . .	1,149.7	1,147.8	1,156.5	1,132.3

Source: Seoul Money Brokerage Services, Ltd.

- (1) The average rate for each year is calculated as the average of the market average exchange rates on the last business day of each month during the relevant year (or portion thereof). The average rate for a month is calculated as the average of the market average exchange rates on each business day during the relevant month (or portion thereof).

### Item 3.B. Capitalization and Indebtedness

Not applicable

### Item 3.C. Reasons for Offer and Use of Proceeds

Not applicable

### **Item 3.D. Risk Factors**

You should carefully consider the risks described below.

***The global economic downturn may adversely affect our business and performance. The global economic outlook for the near future remains uncertain.***

Our business is affected by highly cyclical market demand for our steel products from a number of industries, including the construction, automotive, shipbuilding and electrical appliances industries as well as downstream steel processors, which are sensitive to general conditions in the global economy. Macroeconomic factors, such as the economic growth rate, employment levels, interest rates, inflation rates, exchange rates, commodity prices, demographic trends and fiscal policies of governments can have a significant effect on such industries. From time to time, these industries have experienced significant and sometimes prolonged downturns, which, in turn, have negatively impacted our steel business. The global economic outlook for the near future remains uncertain, particularly in light of the slowdown of economic growth and financial instability in China and other major emerging market economies, fluctuations in oil and commodity prices, financial difficulties affecting governments in southern Europe and Latin America, and political and social instability in various countries in the Middle East and Northern Africa, including Iraq, Syria and Egypt, as well as in Ukraine and Russia. In particular, the Chinese economy, which in recent years has been one of the main demand drivers in the global steel industry, has experienced a slowdown in growth since 2012 and continues to show signs of deterioration, despite successive fiscal and monetary stimulus measures implemented by the Chinese government, including in the wake of a significant downturn in the Chinese equity markets commencing in June 2015.

An actual or anticipated further deterioration of global economic conditions may result in a decline in demand for our products that could have a negative impact on the prices at which they can be sold. In such a case, we will likely face pressure to reduce prices and we may need to rationalize our production capacity and reduce fixed costs. In the past, we have adjusted our crude steel production levels and sales prices in response to sluggish demand from our customers in industries adversely impacted by the deteriorating economic conditions. We recorded crude steel production of 38.3 million tons in 2013, 41.4 million tons in 2014 and 42.0 million tons in 2015. The average unit sales prices for our semi-finished and finished steel products were Won 998 thousand per ton in 2013, Won 936 thousand per ton in 2014 and Won 798 thousand per ton in 2015.

We expect that fluctuation in demand for our steel products and trading services to continue to prevail at least in the near future. We may decide to further adjust our future crude steel production or our sales prices on an on-going basis subject to market demand for our products, the production outlook of the global steel industry and global economic conditions in general. In addition, economic downturns in the Korean and global economies could result in market conditions characterized by weaker demand for steel products from a number of industries as well as falling prices for export and import products and reduced trade levels. Deterioration of market conditions may result in changes in assumptions underlying the carrying value of certain assets, which in turn could result in impairment of such assets, including intangible assets such as goodwill. In addition, our ability to reduce expenditures for production facilities and research and development during an industry downturn is limited because of the need to maintain our competitive position. If we are unable to reduce our expenses sufficiently to offset reductions in price and sales volume, our margins will suffer and our business, financial condition and results of operations may be materially and adversely affected.

***Korea is our most important market, and our current business and future growth could be materially and adversely affected if economic conditions in Korea deteriorate.***

We are incorporated in Korea, and a substantial portion of our operations and assets are located in Korea. Korea is our most important market, accounting for 40.3% of our total revenue from

steel products produced and sold by us in 2015. Domestic demand for our products is affected by the condition of major steel consuming industries, such as construction, shipbuilding, automotive, electrical appliances and downstream steel processors, and the Korean economy in general. In addition, the trading operations of POSCO Daewoo Corporation (“POSCO Daewoo”), our consolidated subsidiary in which we hold a 60.3% interest, are affected by the general level of trade between Korea and other countries, which in turn tends to fluctuate based on general conditions in the Korean and global economies. As a result, we are subject to political, economic, legal and regulatory risks specific to Korea. The economic indicators in Korea in recent years have shown mixed signs, and future growth of the Korean economy is subject to many factors beyond our control, including developments in the global economy.

Due to recent liquidity and credit concerns and volatility in the global financial markets, the value of the Won relative to the Dollar and other foreign currencies and the stock prices of Korean companies have fluctuated significantly in recent years. In particular, the global financial markets continue to experience significant volatility in light of the slowdown of economic growth in China and other major emerging economies as well as concerns regarding the financial difficulties affecting many governments worldwide, including southern Europe and Latin America, and low oil prices. In addition, political and social instability in various countries in the Middle East and Northern Africa, including Iraq, Syria and Egypt, as well as in Ukraine and Russia, has resulted in an increase in volatility in the global financial markets. Accordingly, the overall prospects for the Korean and global economies in the remainder of 2016 and beyond remain uncertain. Any future deterioration of the Korean or global economy could adversely affect our business, financial condition and results of operations.

Developments that could have an adverse impact on Korea’s economy include:

- continuing adverse conditions in the economies of countries and regions that are important export markets for Korea, such as China, the United States, Europe and Japan, or in emerging market economies in Asia or elsewhere;
- declines in consumer confidence and a slowdown in consumer spending;
- adverse changes or volatility in foreign currency reserve levels, commodity prices (including oil prices), exchange rates (including fluctuation of the Dollar, the Euro or the Yen exchange rates or revaluation of the Renminbi), interest rates, inflation rates or stock markets;
- the emergence of the Chinese economy, to the extent its benefits (such as increased exports to China) are outweighed by its costs (such as competition in export markets or for foreign investment and the relocation of the manufacturing base from Korea to China), as well as a slowdown of economic growth and financial instability in China;
- increased sovereign default risk in select countries and the resulting adverse effects on the global financial markets;
- increasing delinquencies and credit defaults by retail and small- and medium-sized enterprise borrowers;
- the economic impact of any pending or future free trade agreements;
- social and labor unrest;
- substantial decreases in the market prices of Korean real estate;
- a decrease in tax revenues and a substantial increase in the Government’s expenditures for fiscal stimulus measures, unemployment compensation and other economic and social programs that, together, would lead to an increased government budget deficit;
- financial problems or lack of progress in the restructuring of Korean conglomerates, other large troubled companies, their suppliers or the financial sector;

- loss of investor confidence arising from corporate accounting irregularities and corporate governance issues concerning certain Korean conglomerates;
- increases in social expenditures to support an aging population in Korea or decreases in economic productivity due to the declining population size in Korea;
- geo-political uncertainty and risk of further attacks by terrorist groups around the world, including ISIS;
- the occurrence of severe health epidemics in Korea and other parts of the world, such as the Middle East Respiratory Syndrome outbreak in Korea in 2015;
- deterioration in economic or diplomatic relations between Korea and its trading partners or allies, including deterioration resulting from trade disputes or disagreements in foreign policy;
- political uncertainty or increasing strife among or within political parties in Korea;
- hostilities or political or social tensions involving Russia and oil producing countries in the Middle East and North Africa, and any material disruption in the global supply of oil or increase in the price of oil;
- the occurrence of severe earthquakes, tsunamis and other natural disasters in Korea and other parts of the world, particularly in trading partners (such as the March 2011 earthquake in Japan, which also resulted in the release of radioactive materials from a nuclear plant that had been damaged by the earthquake); and
- an increase in the level of tensions or an outbreak of hostilities between North Korea and Korea or the United States.

***We rely on export sales for a significant portion of our total sales. Adverse economic and financial developments in Asia in the future may have an adverse effect on demand for our products in Asia and increase our foreign exchange risks.***

Our export sales and overseas sales to customers abroad accounted for 59.7% of our total revenue from steel products produced and sold by us in 2015. Our export sales volume to customers in Asia, including China, Japan, Indonesia, Thailand and Malaysia, accounted for 63.0% of our total export sales revenue from steel products produced and exported by us in 2015, and we expect our sales to these countries, especially to China, to remain important in the future. Accordingly, adverse economic and financial developments in these countries may have an adverse effect on demand for our products. Economic weakness in Asia may also adversely affect our sales to the Korean companies that export to the region, especially companies in the construction, shipbuilding, automotive, electrical appliances and downstream steel processing industries. Weaker demand in these countries, combined with an increase in global production capacity, may also reduce export prices in Dollar terms of our principal products sold to customers in Asia. For a discussion of production over-capacity in the global steel industry, see “— We operate in the highly competitive steel, trading and construction industries, and our failure to successfully compete would adversely affect our market position and business.” We attempt to maintain and expand our export sales to generate foreign currency receipts to cover our foreign currency purchases and debt service requirements. Consequently, any decrease in our export sales could also increase our foreign exchange risks.

***Depreciation of the value of the Won against the Dollar and other major foreign currencies may have a material adverse effect on the results of our operations and on the price of the ADSs.***

Our consolidated financial statements are prepared from our local currency denominated financial results, assets and liabilities and our subsidiaries around the world, which are then translated

into Won. A substantial proportion of our consolidated financial results is accounted for in currencies other than the Won. Accordingly, our consolidated financial results and assets and liabilities may be materially affected by changes in the exchange rates of foreign currencies. In 2015, 59.7% of our total revenue from steel products produced and sold by us was in overseas markets outside of Korea. To the extent that we incur costs in one currency and make sales in another, our profit margins may be affected by changes in the exchange rates between the two currencies. Since the currency in which sales are recorded may not be the same as the currency in which expenses are incurred, foreign exchange rate fluctuations may materially affect our results of operations. Depreciation of the Won may materially affect the results of our operations because, among other things, it causes:

- an increase in the amount of Won required for us to make interest and principal payments on our foreign currency-denominated debt;
- an increase in Won terms in the costs of raw materials and equipment that we purchase from overseas sources and a substantial portion of our freight costs, which are denominated primarily in Dollars; and
- foreign exchange translation losses on liabilities, which lower our earnings for accounting purposes.

Appreciation of the Won against major currencies, on the other hand, causes:

- our export products to be less competitive by raising our prices in Dollar, Yen and Renminbi terms; and
- a reduction in net sales and accounts receivables in Won from export sales, which are primarily denominated in Dollars and to a lesser extent in Yen and Renminbi.

We strive to naturally offset our foreign exchange risk by matching foreign currency receivables with our foreign currency payables and our overseas subsidiaries have sought to further mitigate the adverse impact of exchange rate fluctuations by conducting business transactions in the local currency of the respective market in which the transactions occur. In particular, POSCO Daewoo's exposure to fluctuations in exchange rates, including the Won/Dollar exchange rate, is limited because trading transactions typically involve matched purchase and sale contracts, which result in limited settlement exposure, and because POSCO Daewoo's contracts with domestic suppliers of products for export and with domestic purchasers of imported products are generally denominated in Dollars. Although the impact of exchange rate fluctuations is partially mitigated by such strategies, we and our subsidiaries, particularly POSCO Daewoo and POSCO Engineering & Construction Co., Ltd. ("POSCO E&C"), also periodically enter into derivative contracts, primarily foreign currency swaps and forward exchange contracts, to further hedge some of our foreign exchange risks. However, our results of operations have historically been affected by exchange rate fluctuations and there can be no assurance that such strategies will be sufficient to reduce or eliminate the adverse impact of such fluctuations in the future. Because of the larger positive effects of the appreciation of the Won (i.e., the reverse of the negative effects caused by the depreciation of the Won, as discussed above), depreciation of the Won generally has a negative impact on our results of operations.

Fluctuations in the exchange rate between the Won and the Dollar will also affect the Dollar equivalent of the Won price of the shares of our common stock on the KRX KOSPI Market and, as a result, will likely affect the market price of the ADSs. These fluctuations will also affect the Dollar conversion by the depositary for the ADRs of cash dividends, if any, paid in Won on shares of common stock represented by the ADSs.

***We are dependent on imported raw materials, and significant increases in market prices of essential raw materials could adversely affect our margins and profits.***

We purchase substantially all of the principal raw materials we use from sources outside Korea, including iron ore and coal. POSCO imported approximately 53.8 million dry metric tons of iron ore and

28.3 million wet metric tons of coal in 2015. Iron ore is imported primarily from Australia, Brazil and Canada. Coal is imported primarily from Australia, Canada and Russia. Although we have not experienced significant unanticipated supply disruptions in the past, supply disruptions, which could be caused by political or other events in the countries from which we import these materials, could adversely affect our operations. In addition, we are particularly exposed to increases in the prices of coal, iron ore and nickel, which represent the largest components of our cost of goods sold. The prices of our key raw materials have fluctuated significantly in recent years. For example, the average market price of coal per wet metric ton (benchmark free on board price of Peak Downs Australian premium hard coking coal) was US\$159 in 2013, US\$126 in 2014 and US\$102 in 2015. The average market price of iron ore per dry metric ton (Iron Ore 62% Fe, CFR China index announced by Platts) was US\$126 in 2013, US\$88 in 2014 and US\$51 in 2015.

Our long-term supply contracts generally have terms of three to ten years and provide for periodic price adjustments to the then-market prices. We typically adjust the prices on a quarterly basis and maintain approximately one month of inventory of raw materials. Such price negotiations are driven by various factors, including the global economic outlook, global market prices of raw materials and steel products, supply and demand outlook of raw materials and production costs of raw materials. Typically, globally influenced buyers and sellers of raw materials determine benchmark prices of raw materials, based on which other buyers and sellers negotiate their prices after taking into consideration the quality of raw materials and other factors. In the case of iron ore, if we fail to agree on the quarterly price adjustment within a predetermined deadline, the supplier and we typically agree on the purchase price based on the price formula that reflects the spot market price as well as the quality of iron ore and transportation expense. As of December 31, 2015, 166 million tons of iron ore and 26 million tons of coal remained to be purchased under long-term supply contracts. Future increases in prices of our key raw materials and our inability to pass along such increases to our customers could adversely affect our margins and profits. Increased prices may also cause potential customers to defer purchase of steel products, while rapidly falling prices may increase loss on valuation of raw material inventory purchased when prices were higher, either of which could have an adverse effect on our business, financial condition and results of operations.

***We operate in the highly competitive steel, trading and construction industries, and our failure to successfully compete would adversely affect our market position and business.***

**Steel.** The markets for our steel products are highly competitive and we face intense global competition. In recent years, driven in part by strong growth in steel consumption in the developing world, particularly in China, the global steel industry has experienced renewed interest in expansion of steel production capacity. China is the largest steel producing country in the world by a significant margin, with the balance between its domestic production and demand being an important factor in the determination of global steel prices. In addition, the global steel industry has experienced consolidation in the past decade, including through the merger of Mittal and Arcelor in 2006 that created a company with approximately 10% of global steel production capacity. Competition from global steel manufacturers with expanded production capacity such as ArcelorMittal S.A. and new market entrants, especially from China and India, has resulted in significant price competition and may result in declining margins and reductions in revenue. Our larger competitors may use their resources, which may be greater than ours, against us in a variety of ways, including by making additional acquisitions, investing more aggressively in product development and capacity and displacing demand for our export products.

The increased production capacity, combined with a decrease in demand due to the recent slowdown of the global economy, has resulted in production over-capacity in the global steel industry. In particular, increase in steel production in China has outpaced its domestic demand for steel products in recent years, which imbalance has been exacerbated by the recent slowdown in China's economic growth rate. As a result, China has become an increasingly larger exporter of steel, which in turn has resulted in downward pressure on global steel prices. Production over-capacity in the global

steel industry may intensify if the slowdown of the global economy is prolonged or demand from developing countries, particularly from China, continues to lag behind the growth in production capacity. Production over-capacity in the global steel industry is likely to:

- reduce export prices in Dollar terms of our principal products, which in turn may reduce our sales prices in Korea;
- increase competition in the Korean market as foreign producers seek to export steel products to Korea as other markets experience a slowdown;
- negatively affect demand for our products abroad and our ability to expand export sales; and
- affect our ability to increase steel production in general.

Steel also competes with other natural and synthetic materials that may be used as steel substitutes, such as aluminum, cement, composites, glass, plastic and wood. Government regulatory initiatives mandating the use of such materials instead of steel, whether for environmental or other reasons, as well as the development of attractive alternative substitutes for steel products, may reduce demand for steel products and increase competition in the global steel industry.

As part of our strategy to compete in this challenging landscape, we will continue to invest in developing innovative products that offer the greatest potential returns and enhance the overall quality of our products, as well as make additional investments in the development of new manufacturing technologies. However, there is no assurance that we will be able to continue to compete successfully in this economic environment or that the prolonged slowdown of the global economy or production over-capacity will not have a material adverse effect on our business, results of operations or financial condition.

**Trading.** POSCO Daewoo competes principally with six other Korean general trading companies, each of which is affiliated with a major domestic business group, as well as global trading companies based in other countries. In the domestic market, competition for export transactions on behalf of domestic suppliers and import transactions on behalf of domestic purchasers was limited, as most affiliated general trading companies of large Korean business groups generally relied on affiliate transactions for the bulk of their trading business. However, in recent years, many of these Korean general trading companies have reduced their reliance on their affiliated business group and transactions carried out on behalf of their member companies and instead have generally evolved to focus on segments of the import and export markets in which they have a competitive advantage. As a result, competition among Korean general trading companies in the area of traditional trade has become more intense.

The overseas trading markets in which POSCO Daewoo operates are also highly competitive. POSCO Daewoo's principal competitors in the overseas trading markets include Korean trading companies that operate in various international markets, as well as foreign trading companies, particularly those based in Japan. As POSCO Daewoo diversifies into businesses other than traditional trading such as natural resources development, it also increasingly competes with other Korean and international companies involved in these businesses. Some of POSCO Daewoo's competitors may be more experienced and have greater financial resources and pricing flexibility than POSCO Daewoo, as well as more extensive global networks and wider access to customers. There is no assurance that POSCO Daewoo will be able to continue to compete successfully in this economic environment or that the prolonged slowdown of the global economy will not have a material adverse effect on its business, results of operations or financial condition.

**Construction.** POSCO E&C, our consolidated subsidiary in which we hold a 52.8% interest, operates in the highly competitive construction industry. Competition is based primarily on price, reputation for quality, reliability, punctuality and financial strength of contractors. Intense competition among construction companies may result in, among other things, a decrease in the price POSCO

E&C can charge for its services, difficulty in winning bids for construction projects, an increase in construction costs and difficulty in obtaining high-quality contractors and qualified employees.

In Korea, POSCO E&C's main competition in the construction of residential and non-residential buildings, EPC (or engineering, procurement and construction) projects, urban planning and development projects and civil works projects consists of approximately ten major domestic construction companies, all of which are member companies of other large business groups in Korea and are capable of undertaking larger-scale, higher-value-added projects that offer greater potential returns. A series of measures introduced by the Government over the past few years to regulate housing prices in Korea, as well as increasing popularity of low-bid contracts in civil works project mandates, have contributed to increased competition in the Korean construction industry in recent years.

Competition for new project awards in overseas markets is also intense. In these markets, POSCO E&C faces competition from local construction companies, as well as international construction companies from other countries, including other major Korean construction companies with overseas operations. Construction companies from other developed countries may be more experienced, have greater financial resources and possess more sophisticated technology than POSCO E&C, while construction companies from developing countries often have the advantage of lower wage costs. Some of these competitors have achieved higher market penetration than POSCO E&C has in specific markets in which it competes, and POSCO E&C may need to accept lower margins in order for it to compete successfully against them. POSCO E&C's failure to successfully compete in the domestic or overseas construction markets could adversely affect its market position and its results of operations and financial condition.

***We may not be able to successfully execute our diversification strategy.***

In part to prepare for the eventual maturation of the Korean steel market, our overall strategy includes securing new growth engines by diversifying into new businesses related to our steel operations that we believe will offer greater potential returns, such as participation in EPC projects in the steel sector and natural resources development, as well as entering into new businesses not related to our steel operations such as power generation and alternative energy solutions, and production of comprehensive materials such as lithium, nickel, magnesium and cobalt. From time to time, we may selectively acquire or invest in companies to pursue such diversification strategy. For example, in September 2010, we acquired a controlling interest in POSCO Daewoo for Won 3.37 trillion. POSCO Daewoo is a global trading company that primarily engages in trading of steel and raw materials as well as investing in energy and mineral development projects.

The success of the overall diversification strategy will depend, in part, on our ability to realize the growth opportunities and anticipated synergies. The realization of the anticipated benefits depends on numerous factors, some of which are outside our control, including the availability of qualified personnel, establishment of new relationships and expansion of existing relationships with various customers and suppliers, procurement of necessary technology and know-how to engage in such businesses and access to investment capital at reasonable costs. The realization of the anticipated benefits may be impeded, delayed or reduced as a result of numerous factors, some of which are outside our control. These factors include:

- difficulties in integrating the operations of the acquired business, including information and accounting systems, personnel, policies and procedures, and in reorganizing or reducing overlapping operations, marketing networks and administrative functions, which may require significant amounts of time, financial resources and management attention;
- unforeseen contingent risks or latent liabilities relating to the acquisition that may become apparent in the future;

- difficulties in managing a larger business; and
- loss of key management personnel or customers.

Accordingly, we cannot assure you that our diversification strategy can be completed profitably or that the diversification efforts will not adversely affect our combined business, financial condition and results of operations.

***Expansion of our production operations abroad is important to our long-term success, and our limited experience in the operation of our business outside Korea increases the risk that our international expansion efforts will not be successful.***

We conduct international trading and construction operations abroad, and our business relies on a global trading network comprised of overseas subsidiaries, branches and representative offices. Although many of our subsidiaries and overseas branches are located in developed countries, we also operate in numerous countries with developing economies. In addition, we intend to continue to expand our steel production operations internationally by carefully seeking out promising investment opportunities, particularly in China, India, Southeast Asia and Latin America, in part to prepare for the eventual maturation of the Korean steel market. For example, in December 2013, PT. Krakatau POSCO Co., Ltd., a joint venture company in Indonesia in which we hold a 70.0% interest, completed the construction of a steel manufacturing plant with an annual capacity of 3.0 million tons of plates and slabs. We may enter into additional joint ventures with foreign steel producers that would enable us to rely on these businesses to conduct our operations, establish local networks and coordinate our sales and marketing efforts abroad. To the extent that we enter into these arrangements, our success will depend in part on the willingness of our partner companies to dedicate sufficient resources to their partnership with us.

In other situations, we may decide to establish manufacturing facilities by ourselves instead of relying on partners. The demand and market acceptance for our products produced abroad are subject to a high level of uncertainty and are substantially dependent upon the market condition of the global steel industry. We cannot assure you that our international expansion plan will be profitable or that we can recoup the costs related to such investments.

Expansion of our trading, construction and production operations abroad requires management attention and resources. In addition, we face additional risks associated with our expansion outside Korea, including:

- challenges caused by distance, language and cultural differences;
- higher costs associated with doing business internationally;
- legal and regulatory restrictions, including foreign exchange controls that might prevent us from repatriating cash earned in countries outside Korea;
- longer payment cycles in some countries;
- credit risk and higher levels of payment fraud;
- currency exchange risks;
- potentially adverse tax consequences;
- political and economic instability; and
- seasonal reductions in business activity during the summer months in some countries.

***We have limited insurance coverage and may incur significant losses resulting from operating hazards, product liability claims from customers or business interruptions.***

The normal operation of our manufacturing facilities may be interrupted by accidents caused by operating hazards, power supply disruptions and equipment failures, as well as natural disasters. As with other industrial companies, our operations involve the use, handling, generation, processing, storage, transportation and disposal of hazardous materials, which may result in fires, explosions, spills and other unexpected or dangerous accidents causing property damage as well as personal injuries or death. We are also exposed to risks associated with product liability claims in the event that the use of the products we sell results in injury. We maintain property insurance for our property, plant and equipment that we believe to be consistent with market practice in Korea. However, we may not have adequate resources to satisfy a judgment in excess of our insurance coverage in the event of a successful claim against us. Any occurrence of accidents or other events affecting our operations could result in potentially significant monetary damages, diversion of resources, production disruption and delay in delivery of our products, which may have a material adverse effect on our business, financial condition and results of operations.

***We may from time to time engage in acquisitions for which we may be required to seek additional sources of capital.***

From time to time, we may selectively acquire or invest in companies or businesses that may complement our business. In order to finance these acquisitions, we intend to use cash on hand, funds from operations, issuances of equity and debt securities, and, if necessary, financings from banks and other sources as well as entering into consortiums with financial investors. However, no assurance can be given that we will be able to obtain sufficient financing for such acquisitions or investments on terms commercially acceptable to us or at all. We also cannot assure you that such financings and related debt payment obligations will not have a material adverse impact on our financial condition, results of operations or cash flow.

***Further increases in, or new impositions of, anti-dumping, safeguard or countervailing duty proceedings may have an adverse impact on our export sales.***

In recent years, we have become subject to a number of anti-dumping duties in the United States, Canada, the European Union, Brazil, India, Indonesia, Malaysia, Australia, Taiwan and Thailand and safeguard duties in Thailand and Malaysia. We are also subject to a number of on-going anti-dumping and safeguard investigations in the United States, China, Indonesia, Malaysia, India, Taiwan, Thailand and Vietnam. In addition, the Mexican government initiated an anti-dumping investigation in October 2012 relating to our exports of cold rolled steel products, and the investigation was suspended until 2018 on condition that we comply with supply undertakings. Our products that are subject to anti-dumping, safeguard or countervailing duty proceedings in the aggregate currently do not account for a material portion of our total sales, and such proceedings have not had a material adverse impact on our business and operations in recent years. However, there can be no assurance that increases in, or new impositions of, anti-dumping duties, safeguard duties, countervailing duties, quotas or tariffs on our exports of products abroad may not have a material adverse impact on our exports in the future. See “Item 4. Information on the Company — Item 4.B. Business Overview — Markets — Exports.”

***We participate in overseas natural resources exploration, development and production projects abroad, which expose us to various risks.***

As part of consortia or through acquisitions of minority interests, we engage in overseas natural resources exploration, development and production projects in various locations, including a gas field exploration project in Myanmar, in which POSCO Daewoo had invested approximately US\$1,891 million as of December 31, 2015 and plans to make further investments in the future.

POSCO Daewoo began recognizing revenue from the Myanmar gas field project starting in November 2013. We may also selectively acquire or invest in companies or businesses that engage in such activities. As part of our efforts to diversify our operations, we intend to selectively expand our operations by carefully seeking out promising exploration, development and production opportunities abroad. To the extent that we enter into these arrangements, our success in these endeavors will depend in part on the willingness of our partner companies to dedicate sufficient resources to their partnership with us, as well as our ability to finance such investments.

The demand and market acceptance for such activities abroad are subject to a substantially higher level of uncertainty than our traditional steel business and are substantially dependent upon the market condition of the global natural resources industry as well as the political and social environment of the target countries. The performance of projects in which we participate may be adversely affected by the occurrence of military hostility, political unrest or acts of terrorism. In addition, some of our current exploration, development and production projects involve drilling exploratory wells on properties with no proven amount of natural resource reserves. Although all drilling, whether developmental or exploratory, involves risks, exploratory drilling involves greater risks of dry holes or failure to find commercial quantities of natural resources. Other risks to which such activities are subject include obtaining required regulatory approvals and licenses, securing and maintaining adequate property rights to land and natural resources, and managing local opposition to project development. A decrease in the market price of raw materials may also adversely impact the value of our investments related to natural resources projects. For example, in connection with our disposition of a minority interest in Nacional Minerios S.A., an iron ore mining company in Brazil in which we had invested in December 2008, we recognized Won 96 billion of impairment loss on assets held for sale in 2015 as well as an additional loss of Won 189 billion from our disposal of such assets in 2015. We have limited experience in this business, and we cannot assure you that our overseas natural resources exploration, development and production projects will be profitable, that we will be able to meet the financing requirements for such projects, or that we can recoup the costs related to such investments, which in turn could materially and adversely affect our business, financial condition and results of operations.

***We may encounter problems with joint overseas natural resources exploration, development and production projects and large-scale infrastructure projects, which may materially and adversely affect our business.***

We typically pursue our natural resources exploration, development and production projects jointly with consortium partners or through acquisition of minority interests in such projects, and we expect to be involved in other joint projects in the future. We sometimes hold a majority interest in the projects among the consortium partners, but we often lack a controlling interest in the joint projects. Therefore, we may not be able to require that our joint ventures sell assets or return invested capital, make additional capital contributions or take any other action without the vote of at least a majority of our consortium partners. If there are disagreements between our consortium partners and us regarding the business and operations of the joint projects, we cannot assure you that we will be able to resolve them in a manner that will be in our best interests. Certain major decisions, such as selling a stake in the joint project, may require the consent of all other partners. These limitations may adversely affect our ability to obtain the economic and other benefits we seek from participating in these projects.

In addition, our consortium partners may:

- have economic or business interests or goals that are inconsistent with us;
- take actions contrary to our instructions, requests, policies or objectives;
- be unable or unwilling to fulfill their obligations;

- have financial difficulties; or
- have disputes with us as to their rights, responsibilities and obligations.

Any of these and other factors may have a material adverse effect on the performance of our joint projects and expose us to a number of risks, including the risk that the partners may be incapable of providing the required financial support to the partnerships and the risk that the partners may not be able to fulfill their other obligations, resulting in disputes not only between our partners and us, but also between the joint ventures and their customers. Such a material adverse effect on the performance of our joint projects may in turn materially and adversely affect our business, results of operations and financial condition.

***Cyclical fluctuations based on macroeconomic factors may adversely affect POSCO E&C's business and performance.***

In order to complement our steel operations, we engage in engineering and construction activities through POSCO E&C, a 52.8%-owned subsidiary. The construction segment is highly cyclical and tends to fluctuate based on macroeconomic factors, such as consumer confidence and income, employment levels, interest rates, inflation rates, demographic trends and policies of the Government. Although we believe that POSCO E&C's strategy of focusing on high-value-added plant construction and urban planning and development projects such as Songdo New City has enabled it to be exposed to a lesser degree to general economic conditions in Korea in comparison to some of its domestic competitors, our construction revenues have fluctuated in the past depending on the level of domestic construction activity including new construction orders. POSCO E&C's construction operations could suffer in the future in the event of a general downturn in the construction market resulting in weaker demand, which could adversely affect POSCO E&C's business, results of operations or financial condition.

***Many of POSCO E&C's domestic and overseas construction projects are on a fixed-price basis, which could result in losses for us in the event that unforeseen additional expenses arise with respect to the project.***

Many of POSCO E&C's domestic and overseas construction projects are carried out on a fixed-price basis according to a predetermined timetable, pursuant to the terms of a fixed-price contract. Under such fixed-price contracts, POSCO E&C retains all cost savings on completed contracts but is also liable for the full amount of all cost overruns and may be required to pay damages for late delivery. The pricing of fixed-price contracts is crucial to POSCO E&C's profitability, as is its ability to quantify risks to be borne by it and to provide for contingencies in the contract accordingly.

POSCO E&C attempts to anticipate costs of labor, raw materials, parts and components in its bids on fixed-price contracts. However, the costs incurred and gross profits realized on a fixed-price contract may vary from its estimates due to factors such as:

- unanticipated variations in labor and equipment productivity over the term of a contract;
- unanticipated increases in labor, raw material, parts and components, subcontracting and overhead costs, including as a result of bad weather;
- delivery delays and corrective measures for poor workmanship; and
- errors in estimates and bidding.

If unforeseen additional expenses arise over the course of a construction project, such expenses are usually borne by POSCO E&C, and its profit from the project will be correspondingly reduced or eliminated. If POSCO E&C experiences significant unforeseen additional expenses with respect to its fixed price projects, it may incur losses on such projects, which could have a material adverse effect on its financial condition and results of operations.

***POSCO E&C's domestic residential property business is highly dependent on the real estate market in Korea.***

The performance of POSCO E&C's domestic residential property business is highly dependent on the general condition of the real estate market in Korea. The construction industry in Korea is experiencing a downturn due to excessive investment in recent years in residential property development projects, stagnation of real property prices and reduced demand for residential property, especially in areas outside of Seoul. In addition, as liquidity and credit concerns and volatility in the global financial markets increased significantly starting in September 2008, there has been a general decline in the willingness by banks and other financial institutions in Korea to engage in project financing and other lending activities to construction companies, which may adversely impact POSCO E&C's ability to meet its desired funding needs. The Government has taken measures to support the Korean construction industry, including easing of regulations imposed on redevelopment of apartment buildings and resale restrictions in the metropolitan areas, as well as reductions in property taxes. Although the Korean real estate market temporarily recovered in recent years, the overall prospects for the Korean real estate market in 2016 and beyond remain uncertain.

***We are subject to environmental regulations, and our operations could expose us to substantial liabilities.***

We are subject to national and local environmental laws and regulations, including increasing pressure to reduce emission of carbon dioxide relating to our manufacturing process, and our steel manufacturing and construction operations could expose us to risk of substantial liability relating to environmental or health and safety issues, such as those resulting from discharge of pollutants and carbon dioxide into the environment, the handling, storage and disposal of solid or hazardous materials or wastes and the investigation and remediation of contaminated sites. We may be responsible for the investigation and remediation of environmental conditions at currently and formerly operated manufacturing or construction sites. For example, we recognized provision expenses of Won 89 billion in 2014 and Won 2 billion in 2015 related to restoration costs of contaminated land near our magnesium plant in Gangneung, Korea, of which provision of Won 37 billion remained as of December 31, 2015. We may also be subject to associated liabilities, including liabilities for natural resource damage, third party property damage or personal injury resulting from lawsuits brought by the Government or private litigants. In the course of our operations, hazardous wastes may be generated at third party-owned or operated sites, and hazardous wastes may be disposed of or treated at third party-owned or operated disposal sites. If those sites become contaminated, we could also be held responsible for the cost of investigation and remediation of such sites, for any associated natural resource damage, and for civil or criminal fines or penalties.

***Failure to protect our intellectual property rights could impair our competitiveness and harm our business and future prospects.***

We believe that developing new steel manufacturing technologies that can be differentiated from those of our competitors, such as FINEX, strip casting and silicon steel manufacturing technologies, is critical to the success of our business. We take active measures to obtain protection of our intellectual property by obtaining patents and undertaking monitoring activities in our major markets. However, we cannot assure you that the measures we are taking will effectively deter competitors from improper use of our proprietary technologies. Our competitors may misappropriate our intellectual property, disputes as to ownership of intellectual property may arise and our intellectual property may otherwise become known or independently developed by our competitors. Any failure to protect our intellectual property could impair our competitiveness and harm our business and future prospects.

***We rely on trade secrets and other unpatented proprietary know-how to maintain our competitive position, and unauthorized disclosure of our trade secrets or other unpatented proprietary know-how could negatively affect our business.***

We rely on trade secrets and unpatented proprietary know-how and information. We enter into confidentiality agreements with each of our employees and consultants upon the commencement of an employment or consulting relationship. These agreements generally provide that all inventions, ideas, discoveries, improvements and patentable material made or conceived by the individual arising out of the employment or consulting relationship and all confidential information developed or made known to the individual during the term of the relationship is our exclusive property. We cannot assure the enforceability of these types of agreements, or that they will not be breached. We also cannot be certain that we will have adequate remedies for any breach. The disclosure of our trade secrets or other know-how as a result of such a breach could adversely affect our business.

***We face the risk of litigation proceedings relating to infringement of intellectual property rights of third parties, which, if determined adversely to us, could cause us to lose significant rights, pay significant damage awards or suspend the sale of certain products.***

Our success depends largely on our ability to develop and use our technology and know-how in a proprietary manner without infringing the intellectual property rights of third parties. The validity and scope of claims relating to technology and patents involve complex scientific, legal and factual questions and analysis and, therefore, may be highly uncertain. In addition, because patent applications in many jurisdictions are kept confidential for an extended period before they are published, we may be unaware of other persons' pending patent applications that relate to our products or manufacturing processes. Accordingly, we face the risk of litigation proceedings relating to infringement of intellectual property rights of third parties. For example, in September 2015, we paid Won 299 billion to Nippon Steel & Sumitomo Metal Corporation to settle lawsuits alleging violation of trade secrets and seeking prohibition on production and sales of grain oriented electrical steel sheets. For a discussion of the claims and the settlement, see "Item 8.A. Consolidated Statements and Other Financial Information — Legal Proceedings."

The plaintiffs in actions relating to infringement of intellectual property rights typically seek injunctions and substantial damages. Although patent and other intellectual property disputes are often settled through licensing or similar arrangements, there can be no assurance that such licenses can be obtained on acceptable terms or at all. Accordingly, regardless of the scope or validity of disputed patents or the merits of any patent infringement claims by potential or actual litigants, we may have to engage in protracted litigation. The defense and prosecution of intellectual property suits, patent opposition proceedings and related legal and administrative proceedings can be both costly and time consuming and may significantly divert the efforts and resources of our technical and management personnel. An adverse determination in any such litigation or proceedings could subject us to pay substantial damages to third parties, require us to seek licenses from third parties and pay ongoing royalties or redesign certain products, or subject us to injunctions prohibiting the manufacture and sale of our products or the use of technologies in certain jurisdictions. The occurrence of any of the foregoing could have a material adverse effect on our reputation, business, financial condition and results of operations.

***We may be exposed to potential claims for unpaid wages and become subject to additional labor costs arising from the Supreme Court of Korea's interpretation of ordinary wages.***

Under the Labor Standards Act, an employee is legally entitled to "ordinary wages." Under the guidelines previously issued by the Ministry of Employment and Labor (formerly the Ministry of Labor), ordinary wages include base salary and certain fixed monthly allowances for overtime work performed during night shifts and holidays. Prior to the Supreme Court of Korea's decision described below, we

and other companies in Korea had interpreted these guidelines as excluding fixed bonuses that are paid other than on a monthly basis (such as bi-monthly, quarterly or biannually paid bonuses) from the scope of ordinary wages.

On December 18, 2013, the Supreme Court of Korea ruled that regularly paid bonuses, including those that are paid other than on a monthly basis, shall be deemed ordinary wages if these bonuses are paid “regularly” and “uniformly” on a “fixed basis” notwithstanding differential amounts based on seniority. The Supreme Court of Korea ruled that if regular bonus payments are limited to only those working for the employer on a specific date, such bonuses are not fixed and thus do not constitute part of ordinary wage. In addition, under this decision, any collective bargaining agreement or labor-management agreement that attempts to exclude such regular bonuses from ordinary wage will be deemed void for violation of the mandatory provisions of Korean law. However, the Supreme Court of Korea further ruled that an employee’s claim for underpayments under the expanded scope of ordinary wages for the past three years within the statute of limitations may be denied based on principles of good faith if (i) there is an agreement between the employer and employees that the regular bonus shall be excluded from ordinary wage in determining the total amount of wage, (ii) such claim results in further wage payments that far exceed the level of total amount of wage agreed between the employer and employees, and (iii) such claim would cause an unexpected financial burden to the employer leading to material managerial difficulty or a threat to the employer’s existence. The principles of good faith, however, do not apply to an agreement on wages entered into between the employer and employees after December 18, 2013, the date of the above decision of the Supreme Court of Korea.

In light of the Supreme Court of Korea’s decision above, the Ministry of Employment and Labor published its new guidelines (the “Guidelines”) on January 23, 2014. According to the Guidelines, the Government excludes, from ordinary wage, regular bonuses contingent on employment on a specific date. Based on the Supreme Court of Korea’s decision and the Guidelines, we believe that regular bonuses that we have paid to our employees are likely to be excluded from ordinary wage since we have paid regular bonuses to only those working for us on the initial date of payment calculation, the 15th day of each month. However, the Supreme Court decision may result in additional labor costs to us in the form of additional payments under the expanded scope of ordinary wages applicable in the past three years as well as to be incurred in the future, which may have an adverse effect on our financial condition and results of operations.

***Escalations in tensions with North Korea could have an adverse effect on us and the market value of our common shares and ADSs.***

Relations between Korea and North Korea have been tense throughout Korea’s modern history. The level of tension between the two Koreas has fluctuated and may increase abruptly as a result of future events. In particular, since the death of Kim Jong-il in December 2011, there has been increased uncertainty with respect to the future of North Korea’s political leadership and concern regarding its implications for political and economic stability in the region. Although Kim Jong-il’s third son, Kim Jong-eun, has assumed power as his father’s designated successor, the long-term outcome of such leadership transition remains uncertain.

In addition, there have been heightened security concerns in recent years stemming from North Korea’s nuclear weapon and long-range missile programs as well as its hostile military actions against Korea. Some of the significant incidents in recent years include the following:

- From time to time, North Korea has conducted ballistic missile tests. Most recently in February 2016, North Korea launched a long-range rocket in violation of its agreement with the United States as well as United Nations sanctions barring it from conducting launches that use ballistic missile technology. Despite international condemnation, North Korea released a statement that it intends to continue its rocket launch program.

- North Korea renounced its obligations under the Nuclear Non-Proliferation Treaty in January 2003 and conducted three rounds of nuclear tests between October 2006 to February 2013, which increased tensions in the region and elicited strong objections worldwide. In January 2016, North Korea conducted a fourth nuclear test, claiming that the test involved its first hydrogen bomb, which claim has not been independently verified. In response to such test (as well as North Korea's long-range rocket launch in February 2016), the United Nations Security Council unanimously passed a resolution in March 2016 condemning North Korea's actions and significantly expanding the scope of the sanctions applicable to North Korea.
- In August 2015, two Korean soldiers were injured in a landmine explosion near the Korean demilitarized zone. Claiming the landmines were set by North Koreans, the Korean army re-initiated its propaganda program toward North Korea utilizing loudspeakers near the demilitarized zone. In retaliation, the North Korean army fired artillery rounds on the loudspeakers, resulting in the highest level of military readiness for both Koreas. High-ranking officials from North Korea and Korea subsequently entered into an agreement on August 25, 2015 intended to diffuse military tensions.
- In March 2010, a Korean naval vessel was destroyed by an underwater explosion, killing many of the crewmen on board. The Government formally accused North Korea of causing the sinking, while North Korea denied responsibility. Moreover, in November 2010, North Korea fired more than one hundred artillery shells that hit Korea's Yeonpyeong Island near the Northern Limit Line, which acts as the de facto maritime boundary between Korea and North Korea on the west coast of the Korean peninsula, causing casualties and significant property damage. The Government condemned North Korea for the attack and vowed stern retaliation should there be further provocation.

North Korea's economy also faces severe challenges that may aggravate social and political pressures within North Korea. There can be no assurance that the level of tensions affecting the Korean peninsula will not escalate in the future. Any further increase in tensions, which may occur, for example, if North Korea experiences a leadership crisis, high-level contacts between Korea and North Korea break down or military hostilities occur, could have a material adverse effect on the Korean economy and on our business, financial condition and results of operations.

***If you surrender your ADRs to withdraw shares of our common stock, you may not be allowed to deposit the shares again to obtain ADRs.***

Under the deposit agreement, holders of shares of our common stock may deposit those shares with the ADR depository's custodian in Korea and obtain ADRs, and holders of ADRs may surrender ADRs to the ADR depository and receive shares of our common stock. However, under current Korean laws and regulations, the depository bank is required to obtain our prior consent for the number of shares to be deposited in any given proposed deposit that exceeds the difference between (i) the aggregate number of shares deposited by us for the issuance of ADSs (including deposits in connection with the initial and all subsequent offerings of ADSs and stock dividends or other distributions related to these ADSs) and (ii) the number of shares on deposit with the depository bank at the time of such proposed deposit. It is possible that we may not give the consent. As a result, if you surrender ADRs and withdraw shares of common stock, you may not be able to deposit the shares again to obtain ADRs. See "Item 10. Additional Information — Item 10.D. Exchange Controls."

***You may not be able to exercise preemptive rights for additional shares of common stock and may suffer dilution of your equity interest in us.***

The Commercial Code and our articles of incorporation require us, with some exceptions, to offer shareholders the right to subscribe for new shares in proportion to their existing ownership percentage whenever new shares are issued. If we issue new shares to persons other than our

shareholders (See “Item 10.B. Memorandum and Articles of Association — Preemptive Rights and Issuance of Additional Shares”), a holder of our ADSs will experience dilution of such holding. If none of these exceptions is available, we will be required to grant preemptive rights when issuing additional common shares under Korean law. Under the deposit agreement governing the ADSs, if we offer any rights to subscribe for additional shares of our common stock or any rights of any other nature, the ADR depository, after consultation with us, may make the rights available to you or use reasonable efforts to dispose of the rights on your behalf and make the net proceeds available to you. The ADR depository, however, is not required to make available to you any rights to purchase any additional shares unless it deems that doing so is lawful and feasible and:

- a registration statement filed by us under the Securities Act is in effect with respect to those shares; or
- the offering and sale of those shares is exempt from or is not subject to the registration requirements of the Securities Act.

We are under no obligation to file any registration statement under the Securities Act to enable you to exercise preemptive rights in respect of the common shares underlying the ADSs, and we cannot assure you that any registration statement would be filed or that an exemption from the registration requirement under the Securities Act would be available. Accordingly, if a registration statement is required for you to exercise preemptive rights but is not filed by us, you will not be able to exercise your preemptive rights for additional shares and may suffer dilution of your equity interest in us.

***U.S. investors may have difficulty enforcing civil liabilities against us and our directors and senior management.***

We are incorporated in Korea with our principal executive offices located in Seoul. The majority of our directors and senior management are residents of jurisdictions outside the United States, and the majority of our assets and the assets of such persons are located outside the United States. As a result, U.S. investors may find it difficult to effect service of process within the United States upon us or such persons or to enforce outside the United States judgments obtained against us or such persons in U.S. courts, including actions predicated upon the civil liability provisions of the U.S. federal securities laws. It may also be difficult for an investor to enforce in U.S. courts judgments obtained against us or such persons in courts in jurisdictions outside the United States, including actions predicated upon the civil liability provisions of the U.S. federal securities laws. It may also be difficult for a U.S. investor to bring an action in a Korean court predicated upon the civil liability provisions of the U.S. federal securities laws against our directors and senior management and non-U.S. experts named in this annual report.

***We expect to continue operations and investments relating to countries targeted by United States and European Union economic sanctions.***

The U.S. Department of the Treasury’s Office of Foreign Assets Control, or “OFAC,” enforces certain laws and regulations (“OFAC Sanctions”) that impose restrictions upon U.S. persons and, in some instances, foreign entities owned or controlled by U.S. persons, with respect to activities or transactions with certain countries, governments, entities and individuals that are the subject of OFAC Sanctions (“U.S. Sanctions Targets”). U.S. persons are also generally strictly prohibited from facilitating such activities or transactions. Similarly, the European Union enforces certain laws and regulations (“E.U. Sanctions”) that impose restrictions upon nationals of E.U. member states, persons located within E.U. member states, entities incorporated or constituted under the law of an E.U. member state, or business conducted in whole or in part in E.U. member states with respect to activities or transactions with certain countries, governments, entities and individuals that are the subject of E.U. Sanctions (“E.U. Sanctions Targets” and together with U.S. Sanctions Targets, “Sanctions Targets”). E.U. persons are also generally prohibited from activities that promote such activities or transactions.

We engage in limited business activities in countries that are deemed Sanctions Targets, including Iran and Sudan. We produce and export, typically through our sales subsidiaries, steel products to such countries, including automotive steel sheets and other steel materials to Iranian entities. Our subsidiaries also engage in limited business activities in countries that are deemed Sanctions Targets. In particular, POSCO Daewoo, a global trading company in which we hold a 60.3% interest, engages in the trading of steel, raw materials and other items with entities in countries that are deemed Sanctions Targets, including Iran and Sudan. We believe that such activities and investments do not involve any U.S. goods or services. Our activities and investments in Iran and Sudan accounted for approximately 0.2% of our consolidated revenues in 2013, 0.4% in 2014 and 0.7% in 2015.

We expect to continue to engage in business activities and make investments in countries that are deemed Sanctions Targets over the foreseeable future. Although we believe that OFAC Sanctions under their current terms are not applicable to our current activities, our reputation may be adversely affected, some of our U.S. investors may be required to divest their investments in us under the laws of certain U.S. states or under internal investment policies or may decide for reputational reasons to divest such investments. We are aware of initiatives by U.S. governmental entities and U.S. institutional investors, such as pension funds, to adopt or consider adopting laws, regulations or policies prohibiting transactions with or investment in, or requiring divestment from, entities doing business with countries identified as state sponsors of terrorism. We cannot assure you that the foregoing will not occur or that such occurrence will not have a material adverse effect on the value of our securities.

***This annual report contains “forward-looking statements” that are subject to various risks and uncertainties.***

This annual report contains “forward-looking statements” that are based on our current expectations, assumptions, estimates and projections about our company and our industry. The forward-looking statements are subject to various risks and uncertainties. Generally, these forward-looking statements can be identified by the use of forward-looking terminology such as “anticipate,” “believe,” “estimate,” “expect,” “intend,” “project,” “should,” and similar expressions. Those statements include, among other things, the discussions of our business strategy and expectations concerning our market position, future operations, margins, profitability, liquidity and capital resources. We caution you that reliance on any forward-looking statement involves risks and uncertainties, and that although we believe that the assumptions on which our forward-looking statements are based are reasonable, any of those assumptions could prove to be inaccurate, and, as a result, the forward-looking statements based on those assumptions could be incorrect. The uncertainties in this regard include, but are not limited to, those identified in the risk factors discussed above. In light of these and other uncertainties, you should not conclude that we will necessarily achieve any plans and objectives or projected financial results referred to in any of the forward-looking statements. We do not undertake to release the results of any revisions of these forward-looking statements to reflect future events or circumstances.

**Item 4. Information on the Company**

**Item 4.A. History and Development of the Company**

We were established by the Government on April 1, 1968, under the Commercial Code, to manufacture and distribute steel rolled products and plates in the domestic and overseas markets. The Government owned more than 70% of our equity until 1988, when the Government reduced its ownership of our common stock to 35% through a public offering and listing our shares on the KRX KOSPI Market. In December 1998, the Government sold all of our common stock it owned directly, and The Korea Development Bank completed the sale of our shares that it owned in September 2000. The Government no longer holds any direct interest in us, and our outstanding common stock is currently held by individuals and institutions. See “Item 7. Major Shareholders and Related Party Transactions — Item 7A. Major Stockholders.”

Our legal and commercial name is POSCO. Our principal executive offices are located at POSCO Center, 440 Teheran-ro, Gangnam-gu, Seoul, Korea 06194, and our telephone number is (822) 3457-0114.

#### **Item 4.B. Business Overview**

##### **The Company**

We are the largest fully integrated steel producer in Korea, and one of the largest steel producers in the world, based on annual crude steel production. We produced approximately 42.0 million tons of crude steel in 2015 and approximately 41.4 million tons in 2014, a substantial portion of which was produced at Pohang Works and Gwangyang Works. As of December 31, 2015, Pohang Works had 17.6 million tons of annual crude steel and stainless steel production capacity, and Gwangyang Works had an annual crude steel production capacity of 24.8 million tons. We believe Pohang Works and Gwangyang Works are two of the most technologically advanced integrated steel facilities in the world. We manufacture and sell a diversified line of steel products, including cold rolled and hot rolled products, stainless steel products, plates, wire rods and silicon steel sheets, and we are able to meet a broad range of customer needs from manufacturing industries that consume steel, including automotive, shipbuilding, home appliance, engineering and machinery industries.

We sell primarily to the Korean market. Domestic sales accounted for 40.3% of our total revenue from steel products produced and sold by us in 2015 and 44.6% in 2014. On a non-consolidated basis, we believe that we had an overall market share of approximately 41% of the total sales volume of steel products sold in Korea in each of 2014 and 2015. Our export sales and overseas sales to customers abroad accounted for 59.7% of our total revenue from steel products produced and sold by us in 2015 and 55.4% in 2014. Our major export market is Asia, with Asia other than China and Japan accounting for 28.2%, China accounting for 25.3% and Japan accounting for 9.5% of our total steel export revenue from steel products produced and exported by us in 2015, and Asia other than China and Japan accounting for 28.3%, China accounting for 26.6%, and Japan accounting for 11.7% of our total steel export revenue from steel products produced and exported by us in 2014.

We also engage in businesses that complement our steel manufacturing operations as well as carefully seek out promising investment opportunities to diversify our businesses both vertically and horizontally, in part to prepare for the eventual maturation of the Korean steel market. POSCO E&C, our consolidated subsidiary in which we hold a 52.8% interest, is one of the leading engineering and construction companies in Korea that primarily engages in the planning, design and construction of industrial plants and architectural works and civil engineering. POSCO Daewoo, our consolidated subsidiary in which we hold a 60.3% interest, is a global trading company that primarily engages in trading of steel and raw materials as well as investing in energy and mineral development projects throughout the world. POSCO Energy Corporation, our consolidated subsidiary in which we hold an 89.0% interest, is the largest private power generation company in Korea.

We generated revenue of Won 58,522 billion and loss of Won 116 billion in 2015, compared to revenue of Won 64,759 billion and profit of Won 564 billion in 2014. We had total assets of Won 80,748 billion and total equity of Won 45,013 billion as of December 31, 2015, compared to total assets of Won 85,844 billion and total equity of Won 45,257 billion as of December 31, 2014.

##### **Business Strategy**

Leveraging on our success over the past four decades, our goal is to strengthen our position as one of the leading steel producers in the world through focusing on core technologies, further solidifying our market leading position in Korea, and pursuing operational efficiencies to increase our margins in markets abroad. In order to compete effectively in the dynamic global market environment

driven by emerging economies and increasing demand for more environmentally friendly products, we are committed to leveraging our competitive advantages and further enhancing our leadership positions. We believe that our proprietary technologies and expertise in developing environmentally-friendly steel production facilities, ability to independently construct such facilities, and know-how in their efficient operation and management enable us to develop differentiated steel products at a highly competitive cost structure. In addition to our steel production operations, we also plan to selectively explore opportunities in growth industries that are integral to our overall business model, and we have identified trading, infrastructure construction, energy and comprehensive materials as our key areas of focus. We plan to bolster competitiveness of each of the areas of focus by developing products and services that address evolving customers' needs, while continuing to increase the portion of revenues from non-member companies of the POSCO Group.

We seek to strengthen our competitiveness and pursue growth through the following core business strategies:

***Seek Opportunities to Further Strengthen Our Position in Global Markets as well as Effectively Manage Our Production Infrastructure Abroad***

We plan to pursue higher margin businesses in various key markets abroad as well as further strengthen the competitiveness of production facilities abroad that we have begun operating in recent years. In China, which is experiencing a slowdown in economic growth and oversupply of steel products, we plan to focus on higher-margin products and pursue strategic entry or exit of various segments and regions. In Southeast Asia, we plan to pursue stabilization of our production operations in Indonesia as well as focus on increasing our market share of key products in Thailand, particularly for the automotive industry. We also plan to pursue differentiated strategies in each of our other key regions, such as customizing our product specifications to meet diverse customer demands and optimizing our existing production infrastructure abroad.

***Maintain Technology Leadership in Steel Manufacturing***

As part of our strategy, we have identified core products that we plan to further develop, such as premium automotive steel sheets, silicon steel and API-grade steel, and we will continue to invest in developing innovative products that offer the greatest potential returns and enhance the overall quality of our steel products. In order to increase our competitiveness and the proportion of our sales of higher margin, higher value-added products, we plan to make additional investments in the development of new manufacturing technologies and upgrade our facilities in Korea and abroad through continued modernization and rationalization.

We believe that innovation is a key element of our culture and critical to our success. We will continue our research and development efforts on developing even more environmentally friendly technologies that align with our customers' changing needs and desires as well as addressing emerging technological trends. For example, we will continue to refine FINEX, a low cost, environmentally friendly steel manufacturing process that optimizes our production capacity by utilizing low-grade iron ore fines and using coal as an energy source and a reducing agent. We believe that FINEX offers considerable environmental and economic advantages through elimination of major sources of pollution such as facilities that pretreat raw materials, as well as reducing operating and raw material costs. We have also developed proprietary manufacturing technology using a compact endless cast rolling mill ("CEM") that combines the FINEX process with an advanced basic oxygen steelmaking process that uses more scrap in place of pig iron, which enables us to manufacture products at a highly competitive cost structure with lower carbon dioxide emission. Our CEM directly casts coils from liquid steel and uses a rolling process that rolls hot rolled coils up to 40 slabs at a time.

### ***Pursue Growth Opportunities in the Construction and Trading Industries***

POSCO E&C is one of the leading engineering and construction companies in Korea that primarily engages in the planning, design and construction of industrial plants and architectural works and civil engineering. In September 2015, we completed the sale of our 38.0% interest in POSCO E&C to the Public Investment Fund (“PIF”), the sovereign wealth fund of Saudi Arabia, for US\$1.05 billion. In connection with the sale, POSCO E&C and PIF agreed to jointly explore additional business opportunities in Saudi Arabia, including participating in various infrastructure projects sponsored by the Saudi Arabian government. In addition to the Middle East, POSCO E&C plans to pursue construction opportunities in Southeast Asia, focusing particularly on construction of industrial plants that maximize production efficiency and are environmentally friendly, as well as commercial and residential complexes that utilize innovative information and technology enhancements.

POSCO Daewoo is a global trading company that primarily engages in trading of steel and raw materials as well as investing in energy development projects. POSCO Daewoo plans to pursue opportunities to offer customized solutions to its trading partners in key global markets with the need for high value-added products such as specialized steel products and agricultural products. POSCO Daewoo will also aim to maximize the returns from its Myanmar gas field projects while mitigating risks associated with natural resources development by limiting its investments to exploration sites that are most likely to yield promising results. We will continue to selectively seek opportunities to identify new growth engines in our construction and trading operations.

### ***Diversify into Production of Comprehensive Materials***

We plan to leverage our expertise in production of various steel-applied materials and venture into the fast-growing and high value-added business of producing environmentally friendly comprehensive materials. In particular, demand for lithium ion batteries has been increasing in recent years, and we have identified lithium, along with nickel and cobalt, as our main investment areas. We have also developed proprietary technology to extract lithium from its brine in approximately one month compared to twelve months through conventional production processes. Leveraging on such technology, we are constructing a lithium production plant in Argentina with target completion in September 2016 and annual production capacity of approximately 2,500 tons of lithium. Subject to market conditions, we plan to further expand our production capacity of lithium in the near future.

### ***Further Develop Our Capabilities to become an Integrated Provider of Energy Solutions***

We plan to pursue strategic synergies with our member companies of the POSCO Group to further strengthen our capabilities in the energy industry. POSCO Energy Corporation is the largest private power generation company in Korea. POSCO E&C is one of the leading engineering and construction companies in Korea with expertise in the design and construction of power plants. POSCO Daewoo engages in various natural resources procurement and energy development projects around the world, including operation of gas fields in Myanmar. We believe that the energy industry is a sustainable business area that offers us attractive opportunities. Leveraging the expertise of various member companies of the POSCO Group, we cover all aspects of the independent power plant (“IPP”) business, including project planning, power plant construction as well as operational and maintenance services, and we will continue to seek opportunities to selectively expand our power generation business.

### ***Pursue Cost-Cutting through Operational and Process Innovations***

We seek to achieve cost reductions in this era of increasing raw material costs through our company wide process for innovation and enhancing efficiency of operations. We believe that strategic cost cutting measures through utilization of efficient production methods, restructuring of our

subsidiaries and management discipline will strengthen our corporate competitiveness. We will also strive to invest more in human resources development to nurture employees who are capable of working in the global environment.

## Major Products

We manufacture and sell a broad line of steel products, including the following:

- cold rolled products;
- hot rolled products;
- stainless steel products;
- plates;
- wire rods; and
- silicon steel sheets.

The table below sets out our revenue of steel products produced by us and directly sold to external customers, which are recognized as external revenue of the Steel Segment, by major steel product categories for the periods indicated. Such amounts do not include steel products produced by us and sold to our consolidated subsidiaries.

Steel Products	For the Year Ended December 31,					
	2013		2014		2015	
	Billions of Won	%	Billions of Won	%	Billions of Won	%
Cold rolled products	₩ 9,879	31.1%	₩ 9,336	29.3%	₩ 8,373	29.6%
Hot rolled products	5,134	16.1	5,346	16.8	4,685	16.6
Stainless steel products	7,425	23.4	6,830	21.5	6,085	21.5
Plates	3,266	10.3	3,519	11.1	2,809	9.9
Wire rods	1,867	5.9	2,160	6.8	1,932	6.8
Silicon steel sheets	1,476	4.6	1,267	4.0	1,323	4.7
Sub-total	29,047	91.4	28,458	89.4	25,208	89.1
Others	2,748	8.6	3,384	10.6	3,085	10.9
<b>Total</b>	<b>₩ 31,795</b>	<b>100.0%</b>	<b>₩ 31,842</b>	<b>100.0%</b>	<b>₩ 28,293</b>	<b>100.0%</b>

The table below sets out our sales volume of the principal categories of steel products produced by us and directly sold to external customers, which are recognized as external sales volume of the Steel Segment, by major steel product categories for the periods indicated. Such amounts do not include steel products produced by us and sold to our consolidated subsidiaries.

Steel Products	For the Year Ended December 31,					
	2013		2014		2015	
	Thousands of Tons	%	Thousands of Tons	%	Thousands of Tons	%
Cold rolled products	11,915	40.9%	11,881	39.1%	11,995	38.0%
Hot rolled products	7,589	26.1	7,783	25.6	8,541	27.0
Stainless steel products	2,883	9.9	2,650	8.7	2,758	8.7
Plates	3,849	13.2	4,638	15.3	4,588	14.5
Wire rods	1,735	6.0	2,400	7.9	2,667	8.4
Silicon steel sheets	1,134	3.9	1,038	3.4	1,031	3.3
<b>Total (1)</b>	<b>29,104</b>	<b>100.0%</b>	<b>30,390</b>	<b>100.0%</b>	<b>31,580</b>	<b>100.0%</b>

(1) Not including sales volume of steel products categorized under "others."

In addition to steel products produced by us and directly sold to external customers, we engage our consolidated sales subsidiaries (including POSCO Daewoo) to sell our steel products produced by us. Our revenue from steel products produced by us and sold to our consolidated sales subsidiaries that in turn sold them to their external customers amounted to Won 8,391 billion in 2013, Won 9,176 billion in 2014 and Won 8,365 billion in 2015. Sales of such steel products by our consolidated sales subsidiaries to external customers are recognized as external revenue of the Trading Segment.

### ***Cold Rolled Products***

Cold rolled coils and further refined galvanized cold rolled products are used mainly in the automotive industry to produce car body panels. Other users include the household goods, electrical appliances, engineering and metal goods industries.

Our deliveries of cold rolled products produced by us and directly sold to external customers amounted to 12.0 million tons in 2015, representing 38.0% of our total sales volume of principal steel products produced by us and directly sold to external customers.

Cold rolled products constitute our largest product category in terms of sales volume and revenue from steel products produced by us and directly sold to external customers. In 2015, our sales volume of cold rolled products produced by us and directly sold to external customers remained relatively stable and increased by 1.0% compared to our sales volume in 2014.

Including sales of cold rolled products produced by us and sold through our consolidated sales subsidiaries in addition to cold rolled products produced by us and directly sold to external customers, we had a domestic market share for cold rolled products of approximately 40% on a non-consolidated basis.

### ***Hot Rolled Products***

Hot rolled coils and sheets have many different industrial applications. They are used to manufacture structural steel used in the construction of buildings, industrial pipes and tanks, and automobile chassis. Hot rolled coil is also manufactured in a wide range of widths and thickness as the feedstock for higher value-added products such as cold rolled products and silicon steel sheets.

Our deliveries of hot rolled products produced by us and directly sold to external customers amounted to 8.5 million tons in 2015, representing 27.0% of our total sales volume of principal steel products produced by us and directly sold to external customers. The largest customers of our hot rolled products are downstream steelmakers in Korea which use the products to manufacture pipes and cold rolled products.

Hot rolled products constitute our second largest product category in terms of sales volume and third largest product category in terms of revenue from steel products produced by us and directly sold to external customers. In 2015, our sales volume of hot rolled products produced by us and directly sold to external customers increased by 9.7% compared to our sales volume in 2014, primarily reflecting an increase in sales to new customers abroad, which were in large part satisfied through increased production following an increase in production capacity of our facilities dedicated to production of hot rolled products.

Including sales of hot rolled products produced by us and sold through our consolidated sales subsidiaries in addition to hot rolled products produced by us and directly sold to external customers, we had a domestic market share for hot rolled products of approximately 37% on a non-consolidated basis.

### ***Stainless Steel Products***

Stainless steel products are used to manufacture household goods and are also used by the chemical industry, paper mills, the aviation industry, the automotive industry, the construction industry and the food processing industry.

Our deliveries of stainless steel products produced by us and directly sold to external customers amounted to 2.8 million tons in 2015, representing 8.7% of our total sales volume of principal steel products produced by us and directly sold to external customers.

Stainless steel products constitute our second largest product category in terms of revenue from steel products produced by us and directly sold to external customers. Although sales of stainless steel products accounted for only 8.7% of total sales volume of the principal steel products produced by us and directly sold to external customers in 2015, they represented 21.5% of our total revenue from such steel products in 2015. In 2015, our sales volume of stainless steel products produced by us and directly sold to external customers increased by 4.1% compared to our sales volume in 2014 primarily reflecting increased demand resulting from our efforts to focus more on marketing of higher margin, higher value-added products, which was in part met by an increase in our production capacity of stainless steel products.

Including sales of stainless steel products produced by us and sold through our consolidated sales subsidiaries in addition to stainless steel products produced by us and directly sold to external customers, we had a domestic market share for stainless steel products of approximately 40% on a non-consolidated basis.

### ***Plates***

Plates are used in shipbuilding, structural steelwork, offshore oil and gas production, power generation, mining, and the manufacture of earth-moving and mechanical handling equipment, boiler and pressure vessels and other industrial machinery.

Our deliveries of plates produced by us and directly sold to external customers amounted to 4.6 million tons in 2015, representing 14.5% of our total sales volume of principal steel products produced by us and directly sold to external customers. The Korean shipbuilding industry, which uses plates to manufacture chemical tankers, rigs, bulk carriers and containers, and the construction industry are our largest customers of plates.

In 2015, our sales volume of plates produced by us and directly sold to external customers decreased by 1.1% compared to our sales volume in 2014 primarily due to a decrease in demand from the energy industry.

Including sales of plates produced by us and sold through our consolidated sales subsidiaries in addition to plates produced by us and directly sold to external customers, we had a domestic market share for plates of approximately 39% on a non-consolidated basis.

### ***Wire Rods***

Wire rods are used mainly by manufacturers of wire, fasteners, nails, bolts, nuts and welding rods. Wire rods are also used in the manufacture of coil springs, tension bars and tire cords in the automotive industry.

Our deliveries of wire rods produced by us and directly sold to external customers amounted to 2.7 million tons in 2015, representing 8.4% of our total sales volume of principal steel products produced by us and directly sold to external customers. The largest customers for our wire rods are manufacturers of wire ropes and fasteners.

In 2015, our sales volume of wire rods produced by us and directly sold to external customers increased by 11.2% compared to 2014, primarily reflecting an increase in production capacity resulting from a ramping up of production at our no. 4 wire rod mill, which in turn enabled us to meet an increase in demand for our wire rods from global auto parts manufacturers.

Including sales of wire rods produced by us and sold through our consolidated sales subsidiaries in addition to wire rods produced by us and directly sold to external customers, we had a domestic market share for wire rods of approximately 55% on a non-consolidated basis.

### ***Silicon Steel Sheets***

Silicon steel sheets are used mainly in the manufacture of power transformers and generators and rotating machines.

Our deliveries of silicon steel sheets produced by us and directly sold to external customers amounted to 1.0 million tons in 2015, representing 3.3% of our total sales volume of principal steel products produced by us and directly sold to external customers.

In 2015, our sales volume of silicon steel sheets produced by us and directly sold to external customers remained relatively stable and decreased by 0.7% compared to 2014.

Including sales of silicon steel sheets produced by us and sold through our consolidated sales subsidiaries in addition to silicon steel sheets produced by us and directly sold to external customers, we had a domestic market share for silicon steel sheets of approximately 81% on a non-consolidated basis.

### ***Others***

Other products include lower value-added semi-finished products such as pig iron, billets, blooms and slab.

### **Markets**

Korea is our most important market. Domestic sales represented 40.3% of our total revenue from steel products produced and sold by us in 2015. Our export sales and overseas sales to customers abroad represented 59.7% of our total revenue from steel products in 2015. Our sales strategy has been to devote our production primarily to satisfy domestic demand, while seeking export sales to utilize capacity to the fullest extent and to expand our international market presence.

### ***Domestic Market***

We primarily sell in Korea higher value-added and other finished products to end-users and semi-finished products to other steel manufacturers for further processing. Local distribution companies and sales affiliates sell finished steel products to low-volume customers. We provide service technicians for large customers and distributors in each important product area.

The table below sets out our estimate of the market share of steel products sold in Korea for the periods indicated based on sales volume.

Source	For the Year Ended December 31,		
	2013	2014	2015
POSCO's sales <sup>(1)</sup> .....	43.4%	40.6%	40.8%
Other domestic steel companies' sales .....	23.6	27.6	27.7
Imports .....	33.0	31.8	31.5
<b>Total</b> .....	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

(1) POSCO's sales volume includes steel products produced by us (but not by our subsidiaries) and sold through our consolidated sales subsidiaries in addition to steel products produced by us (but not by our subsidiaries) and directly sold to external customers.

### Exports

Our export sales and overseas sales to customers abroad represented 59.7% of our total revenue from steel products produced and sold by us in 2015, 63.0% of which was generated from exports sales and overseas sales to customers in Asian countries. Our export sales and overseas sales to customers abroad in terms of revenue from such products decreased by 3.7% from 22,731 billion in 2014 to Won 21,901 billion in 2015.

The tables below set out our export sales and overseas sales to customers abroad in terms of revenue from steel products produced and sold by us, by geographical market and by product for the periods indicated.

Region	For the Year Ended December 31,					
	2013		2014		2015	
	Billions of Won	%	Billions of Won	%	Billions of Won	%
Asia (other than China and Japan) .....	₩ 5,707	27.7%	₩ 6,434	28.3%	₩ 6,174	28.2%
China .....	6,220	30.2	6,057	26.6	5,541	25.3
Japan .....	2,583	12.5	2,668	11.7	2,075	9.5
Europe .....	999	4.9	1,428	6.3	1,751	8.0
Middle East .....	381	1.8	323	1.4	372	1.7
North America .....	1,145	5.6	2,131	9.4	2,162	9.9
Others .....	3,552	17.3	3,689	16.2	3,826	17.5
<b>Total</b> .....	<b>₩ 20,587</b>	<b>100.0%</b>	<b>₩ 22,731</b>	<b>100.0%</b>	<b>₩ 21,901</b>	<b>100.0%</b>

Steel Products	For the Year Ended December 31,					
	2013		2014		2015	
	Billions of Won	%	Billions of Won	%	Billions of Won	%
Cold rolled products .....	₩ 6,653	32.3%	₩ 6,907	30.4%	₩ 6,373	29.1%
Hot rolled products .....	3,300	16.0	3,646	16.0	4,032	18.4
Stainless steel products .....	5,125	24.9	5,615	24.7	5,265	24.0
Plates .....	1,238	6.0	1,596	7.0	1,465	6.7
Wire rods .....	569	2.8	783	3.4	674	3.1
Silicon steel sheets .....	837	4.1	771	3.4	807	3.7
Others .....	2,863	13.9	3,412	15.0	3,284	15.0
<b>Total</b> .....	<b>₩ 20,587</b>	<b>100.0%</b>	<b>₩ 22,731</b>	<b>100.0%</b>	<b>₩ 21,901</b>	<b>100.0%</b>

The table below sets out the world's apparent steel use for the periods indicated.

	For the Year Ended December 31,		
	2013	2014	2015
Apparent steel use (million metric tons) .....	1,534	1,547	1,498
Percentage of annual increase .....	6.3%	0.8%	(3.1)%

Source: World Steel Association.

Recently, the general weakness of the global economy, the slowdown in growth of the Chinese economy and fluctuations in oil and commodity prices have increased the uncertainty of global economic prospects in general and have adversely affected the global and Korean economies. The World Steel Association forecasts that global apparent steel use is expected to decrease by 0.7% to 1,488 million metric tons in 2016.

In recent years, driven in part by strong growth in steel consumption in emerging economies, the global steel industry has experienced renewed interest in expansion of steel production capacity. The Organisation for Economic Co-operation and Development estimated the global crude steel production capacity to be 2,307 million tons in 2015. The increased production capacity, combined with weakening demand due primarily to the recent slowdown of the global economy as well as a slowdown in demand growth from China, has resulted in production over-capacity in the global steel industry. Production over-capacity in the global steel industry may intensify if the slowdown of the global economy continues or demand from developing countries that have experienced significant growth during the past decade does not meet the growth in production capacity.

We distribute our export products mostly through Korean trading companies, including POSCO Daewoo, and our overseas sales subsidiaries. Our largest export market in 2015 was Asia (other than China and Japan), which accounted for 28.2% of our export revenue from steel products produced and sold by us. The principal products exported to Asia (other than China and Japan) were hot rolled products and cold rolled products. Our exports to Asia (other than China and Japan) amounted to Won 6,434 billion in 2014 and Won 6,174 billion in 2015. Our exports to Asia (other than China and Japan) decreased by 4.1% in 2015 primarily due to a decrease in the unit price of our products.

Our second largest export market in 2015 was China, which accounted for 25.3% of our export revenue from steel products produced and sold by us. The principal products exported to China were cold rolled products, including continuous galvanized products. Our exports to China decreased by 8.5% from Won 6,057 billion in 2014 to Won 5,541 billion in 2015 primarily due to a decrease in demand and a subsequent decrease in the unit price of our products resulting from the deterioration of local market conditions in China.

### ***Anti-Dumping, Safeguard and Countervailing Duty Proceedings***

From time to time, our exporting activities have become subject to anti-dumping, safeguard and countervailing proceedings. In recent years, we have become subject to a number of anti-dumping duties in the United States, Canada, the European Union, Brazil, India, Indonesia, Malaysia, Australia, Taiwan and Thailand and safeguard duties in Thailand and Malaysia. We are also subject to a number of on-going anti-dumping and safeguard investigations in the United States, China, Indonesia, Malaysia, India, Taiwan, Thailand and Vietnam. In addition, the Mexican government initiated an anti-dumping investigation in October 2012 relating to our exports of cold rolled steel products, and the investigation was suspended until 2018 on condition that we comply with supply undertakings. Our products that are subject to anti-dumping, safeguard or countervailing duty proceedings in the aggregate currently do not account for a material portion of our total sales, and such proceedings have not had a material adverse impact on our business and operations in recent years.

## **Pricing Policy**

We determine the sales price of our products based on market conditions. In setting prices, we take into account our costs, including those of raw materials, supply and demand in the Korean market, exchange rates, and conditions in the international steel market. Our prices can fluctuate considerably over time, depending on market conditions and other factors. The prices of our higher value-added steel products in the largest markets are determined considering the prices of similar products charged by our competitors.

Both our export prices and domestic sales prices decreased from 2013 to 2015, reflecting production over-capacity in the global steel industry. We may decide to adjust our sales prices in the future subject to market demand for our products, prices of raw materials, the production outlook of the global steel industry and global economic conditions in general.

## **Raw Materials**

### ***Steel Production***

The principal raw materials used in producing steel through the basic oxygen steelmaking method are iron ore and coal. We require approximately 1.7 tons of iron ore and 0.8 tons of coal to produce one ton of steel. We import all of the coal and virtually all of the iron ore that we use. In 2015, POSCO imported approximately 53.8 million dry metric tons of iron ore and 28.3 million wet metric tons of coal. Iron ore is imported primarily from Australia, Brazil and Canada. Coal is imported primarily from Australia, Canada and Russia. In 2015, we purchased a substantial portion of our iron ore and coal imports pursuant to long-term contracts. The supply contracts have terms of one to ten years and the long-term contracts generally provide for periodic price adjustments to the then-market prices. The long-term contracts to purchase iron ore and coal generally provide for quarterly adjustments to the purchase prices to be determined through negotiation between the supplier and us. Such price negotiations are driven by various factors, including the global economic outlook, global market prices of raw materials and steel products, supply and demand outlook of raw materials and production costs of raw materials. Typically, globally influenced buyers and sellers of raw materials determine benchmark prices of raw materials, based on which other buyers and sellers negotiate their prices after taking into consideration the quality of raw materials and other factors. We or the suppliers may cancel the long-term contracts only if performance under the contracts is prevented by causes beyond our or their control and these causes continue for a specified period.

We also make investments in exploration and production projects abroad to enhance our ability to meet the requirements for high-quality raw materials, either as part of a consortium or through an acquisition of a minority interest. We secured approximately 41% of our iron ore and coal imports in 2015 from foreign mines in which we have made investments. Our major investments to procure supplies of coal, iron ore and nickel are primarily located in Australia, Brazil, New Caledonia and Canada. We will continue to selectively seek opportunities to enter into additional strategic relationships that would enhance our ability to meet the requirements for principal raw materials.

The average market price of coal per wet metric ton (benchmark free on board price of Peak Downs Australian premium hard coking coal) was US\$159 in 2013, US\$126 in 2014 and US\$102 in 2015. The average market price of iron ore per dry metric ton (Iron Ore 62% Fe, CFR China index announced by Platts) was US\$126 in 2013, US\$88 in 2014 and US\$51 in 2015. We currently do not depend on any single country or supplier for our coal or iron ore.

### ***Stainless Steel Production***

The principal raw materials for the production of stainless steel are ferronickel, ferrochrome and stainless steel scrap. We purchase a majority of our ferronickel primarily from suppliers in Korea that procure nickel ore from New Caledonia, and the remainder primarily from leading suppliers in Japan,

Indonesia and Colombia. Our primary suppliers of ferrochrome are located in South Africa, India and Kazakhstan. Our stainless steel scraps are primarily supplied by domestic and overseas suppliers in Japan and Southeast Asia. Revert scraps from the Pohang Steelworks are also used for our stainless steel production. The average market price of nickel per ton on the London Metal Exchange was US\$15,022 in 2013, US\$16,871 in 2014 and US\$11,836 in 2015.

### ***Transportation***

In order to meet our transportation needs for iron ore and coal, we have entered into long-term contracts with shipping companies in Korea to retain a fleet of dedicated vessels. These dedicated vessels transported approximately 80% of the total requirements in 2015, and the remaining approximately 20% was transported by vessels retained through short to medium term contracts, depending on market conditions. The Asia Pacific region, including Australia, and the Atlantic region, including Brazil, are the main regions where the vessels are loaded, and they accounted for approximately 85% and 15%, respectively, of our total requirements in 2015. We plan to continue to optimize the fleet of dedicated vessels that we use by 2020 in order to cope with changes in the global shipping environment, as well as upgrade some of the existing vessels with others that utilize more energy-efficient technologies.

### **The Steelmaking Process**

Our major production facilities, Pohang Works and Gwangyang Works, produce steel by the basic oxygen steelmaking method. The stainless steel plant at Pohang Works produces stainless steel by the electric arc furnace method. Continuous casting improves product quality by imparting a homogenous structure to the steel. Pohang Works and Gwangyang Works produce all of their products through the continuous casting.

#### ***Steel — Basic Oxygen Steelmaking Method***

First, molten pig iron is produced in a blast furnace from iron ore, which is the basic raw material used in steelmaking. Molten pig iron is then refined into molten steel in converters by blowing pure oxygen at high pressure to remove impurities. Different desired steel properties may also be obtained by regulating the chemical contents.

At this point, molten steel is made into semi-finished products such as slabs, blooms or billets at the continuous casting machine. Slabs, blooms and billets are produced at different standardized sizes and shapes. Slabs, blooms and billets are semi-finished lower margin products that we either use to produce our further processed products or sell to other steelmakers that produce further processed steel products.

Slabs are processed to produce hot rolled coil products at hot strip mills or to produce plates at plate mills. Hot rolled coils are an intermediate stage product that may either be sold to our customers as various finished products or be further processed by us or our customers into higher value-added products, such as cold rolled sheets and silicon steel sheets. Blooms and billets are processed into wire rods at wire rod mills.

#### ***Stainless Steel — Electric Arc Furnace Method***

Stainless steel is produced from stainless steel scrap, chrome, nickel and steel scrap using an electric arc furnace. Stainless steel is then processed into higher value-added products by methods similar to those used for steel production. Stainless steel slabs are produced at a continuous casting mill. The slabs are processed at hot rolling mills into stainless steel hot coil, which can be further processed at cold strip mills to produce stainless cold rolled steel products.

## **Competition**

### ***Domestic Market***

We are the largest fully integrated steel producer in Korea. In hot rolled products, where we had a market share of approximately 37% on a non-consolidated basis in 2015, we face competition from a Korean steel producer that operates mini-mills and produces hot rolled coil products from slabs and from various foreign producers, primarily from China and Japan. In cold rolled products and stainless steel products, where we had a market share of approximately 40% in each market on a non-consolidated basis in 2015, we compete with smaller specialized domestic manufacturers and various foreign producers, primarily from China and Japan. For a discussion of domestic market shares, see “— Markets — Domestic Market.”

We may face increased competition in the future from new specialized or integrated domestic manufacturers of steel products in the Korean market. Our biggest competitor in Korea is Hyundai Steel Co., Ltd. with an annual crude steel production of approximately 21 million tons.

The Korean Government does not impose quotas on or provide subsidies to local steel producers. As a World Trade Organization signatory, Korea has also removed all steel tariffs.

### ***Export Markets***

The competitors in our export markets include all the leading steel manufacturers of the world. In the past decade, there has been a trend toward industry consolidation among our competitors, and smaller competitors in the global steel market today may become larger competitors in the future. For example, Mittal Steel’s takeover of Arcelor in 2006 created a company with approximately 10% of global steel production capacity. Competition from global steel manufacturers with expanded production capacity such as ArcelorMittal S.A., and new market entrants, especially from China and India, could result in a significant increase in competition. In recent years, excess capacity from developing countries, particularly China, has resulted in downward pressure on global steel prices. Major competitive factors include range of products offered, quality, price, delivery performance and customer service. Our larger competitors may use their resources, which may be greater than ours, against us in a variety of ways, including by making additional acquisitions, investing more aggressively in product development and capacity and displacing demand for our export products.

Various export markets currently impose tariffs on different types of steel products. However, we do not believe that tariffs significantly affect our ability to compete in these markets.

## **Subsidiaries and Global Joint Ventures**

### ***Steel Production***

In order to effectively implement our strategic initiatives and to solidify our leadership position in the global steel industry, we have established various subsidiaries and joint ventures around the world that engage in steel production activities.

**Korea.** In order to expand our sale of value-added products, we established POSCO Coated & Color Steel Co., Ltd. by merging a coated steel manufacturer and a color sheet manufacturer in March 1999. POSCO Coated & Color Steel has an aggregate annual production capacity of 600 thousand tons of galvanized and aluminized steel sheets widely used in the construction, automotive parts and home appliances industries. POSCO Coated & Color Steel also has an aggregate annual production capacity of 350 thousand tons of color sheets that are mainly used for interior and exterior materials and home appliances. In 2015, POSCO Coated & Color Steel produced 608 thousand tons of galvanized and aluminized steel sheets and 310 thousand tons of color sheets.

**China.** We entered into an agreement with Sagang Group Co. to establish Zhangjiagang Pohang Stainless Steel Co., Ltd., a joint venture company in China for the manufacture and sale of stainless cold rolled steel products. We have an 82.5% interest in the joint venture (including 23.9% interest held by POSCO China Holding Corporation), which commenced production of stainless cold rolled steel products in December 1998. Zhangjiagang Pohang Stainless Steel produced 1,105 thousand tons of stainless steel products in 2015. See “— Other Production Facilities Abroad — Zhangjiagang Pohang Stainless Steel.”

We established Qingdao Pohang Stainless Steel Co., Ltd., a wholly owned subsidiary set up to manufacture and sell stainless cold rolled steel products in China. The plant became operational in December 2004, with an annual production capacity of 180 thousand tons of stainless cold rolled steel products. Qingdao Pohang Steel produced 147 thousand tons of such products in 2015.

In August 2003, we entered into a joint venture agreement with Benxi Iron and Steel Group in China to establish Benxi Steel POSCO Cold Rolled Sheet Co., Ltd. The cold rolling mill with an annual production capacity of 1.9 million tons became operational in March 2006, and the company produced 1.8 million tons of such products in 2015. We currently hold a 25.0% interest in this joint venture.

**Indonesia.** We entered into an agreement with PT. Krakatau Steel (Persero) Tbk. to establish PT. Krakatau POSCO Co., Ltd., a joint venture company in Indonesia for the manufacture and sale of plates and slabs. We hold a 70.0% interest in the joint venture. We completed the construction of a steel manufacturing plant in December 2013 with an annual production capacity of 3.0 million tons of plates and slabs. PT. Krakatau POSCO produced 2.7 million tons of plates and slabs in 2015. See “— Other Production Facilities Abroad — PT. Krakatau POSCO.”

**Vietnam.** We previously entered into an agreement with Nippon Steel & Sumitomo Metal Corporation to establish POSCO Vietnam Co., Ltd., a joint venture company in Vietnam for the manufacture and sale of cold rolled steel products. In March 2015, we acquired the interest owned by Nippon Steel & Sumitomo Metal Corporation, and we hold a 100.0% interest in the subsidiary. We completed the construction of a plant in September 2009 with an annual production capacity of 1.2 million tons of cold rolled products and commenced commercial production. POSCO Vietnam produced 900 thousand tons of such products in 2015.

We established POSCO SS VINA Co., Ltd., a wholly owned subsidiary engaged in the manufacture and sale of shape steel and steel reinforcement products. The plant became operational in June 2015, with an annual production capacity of 1.1 million tons of shape steel and steel reinforcement products. POSCO SS VINA Co., Ltd. is in the process of ramping up its production and produced 0.2 million tons of shape steel and steel reinforcement products in 2015. See “Other Production Facilities Abroad — POSCO SS VINA.”

**Thailand.** In order to secure an alternative sales source for stainless cold rolled steel products and an export base for expanding into the Southeast Asia stainless steel markets, we acquired a controlling interest in Thainox Stainless Public Company Limited, a major stainless steel manufacturer in Thailand, in September 2011. We renamed the company as POSCO Thainox Public Company Limited in October 2011 and currently hold an 84.9% interest in the company. The company produced 175 thousand tons of stainless cold rolled products in 2015.

**United States.** We entered into a 50-50 joint venture between U.S. Steel Corporation and us called USS-POSCO Industries Corporation. We sell hot rolled products to USS-POSCO Industries, which uses such products to manufacture cold rolled and galvanized steel products and tin-plate products for sale in the United States. USS-POSCO Industries produced 716 thousand tons of such products in 2015.

**Mexico.** In Mexico, POSCO Mexico S.A. de C.V. completed the construction of a plant in August 2009 with an annual production capacity of 0.4 million tons of cold rolled products and commenced commercial production to supply automotive manufacturers in Mexico, Southeastern

United States and South America. POSCO Mexico expanded its annual production capacity to 0.9 million tons of galvanized steel products in December 2013, and produced 474 thousand tons of cold rolled products in 2014.

**Others.** In addition to the above investments, we are carefully seeking out additional promising investment opportunities abroad. In June 2005, we entered into a memorandum of understanding with Odisha State Government of India for the construction of an integrated steel mill and the development of iron ore mines in Odisha State. The Government of India reissued clearance for the construction of the steel mill in January 2014 and the Indian Supreme Court issued a final ruling in May 2013 with respect to authority of the central government to issue permission to develop iron ore mines in Odisha State. Progress on this project remains subject to further discussion with the Government of India.

We have also established supply chain management centers around the world to provide processing and logistics services such as cutting flat steel products to smaller sizes to meet customers' needs. In 2015, our 31 supply chain management centers recorded aggregate sales of 6 million tons of steel products.

### ***Trading***

Our trading activities consist primarily of trading activities of POSCO Daewoo. We acquired a controlling interest in POSCO Daewoo for Won 3.37 trillion on September 20, 2010, and we currently hold a 60.3% interest in POSCO Daewoo. Our consolidated subsidiaries that also engage in trading activities include POSCO Processing & Service Co., Ltd. that primarily focuses in the domestic market, and POSCO Asia Company Limited located in Hong Kong, POSCO Japan Co., Ltd. located in Tokyo, Japan, POSCO America Corporation located in New Jersey, U.S.A. and POSCO South Asia Co., Ltd. located in Bangkok, Thailand.

POSCO Daewoo is a global trading company that primarily engages in trading of steel and raw materials as well as investing in energy and mineral development projects. It also manufactures and sells textiles and operates a department store in Korea. POSCO Daewoo was established in December 2000 when the international trading and construction businesses of Daewoo Corporation were spun off into three separate companies as part of a debt workout program of Daewoo Corporation.

The following table sets forth a breakdown of POSCO Daewoo's total sales by export sales, domestic sales and third-party trades as well as product category for the periods indicated:

Product Category	For the Year Ended December 31,					
	2013		2014		2015	
	(In billions of Won, except percentages)					
<b>Export Sales</b>						
Trading sales:						
Steel and metal . . . . .	₩ 5,397	31.5%	₩ 5,051	24.8%	₩ 4,648	26.5%
Chemical and commodities . . . . .	1,535	9.0	1,836	9.0	1,445	8.2
Automobile and machinery parts . . . . .	1,625	9.5	1,965	9.6	2,003	11.4
Electronics and miscellaneous items . . . . .	72	0.4	44	0.2	42	0.2
Sub-total . . . . .	8,630	50.4	8,895	43.6	8,138	46.4
Manufactured product sales . . . . .	13	0.1	22	0.1	6	0.0
Miscellaneous . . . . .	14	0.1	60	0.3	61	0.4
Total export sales . . . . .	8,657	50.6	8,977	44.0	8,204	46.8
<b>Domestic Sales</b>						
Trading sales:						
Steel and metal . . . . .	₩ 686	3.9%	₩ 737	3.6%	₩ 506	2.9%
Chemical and commodities . . . . .	71	0.4	81	0.4	92	0.5
Automobile and machinery parts . . . . .	34	0.2	56	0.3	62	0.4
Electronics and miscellaneous items . . . . .	4	0.0	11	0.1	—	—
Other goods . . . . .	54	0.3	49	0.2	23	0.1
Sub-total . . . . .	849	5.0	935	4.6	683	3.9
Miscellaneous . . . . .	12	0.1	11	0.1	24	0.1
Total domestic sales . . . . .	861	5.1	946	4.7	707	4.0
<b>Third-Country Trades</b>						
Trading . . . . .	₩ 10,598	61.9%	₩ 14,284	70.0%	₩ 11,569	66.0%
Natural resources development . . . . .	132	0.8	550	2.7	714	4.1
Manufactured product trading . . . . .	261	1.5	266	1.3	242	1.4
Total third-country trades . . . . .	10,991	64.2	15,100	74.0	12,525	71.5
Consolidation adjustments . . . . .	(3,399)	(19.9)	(4,615)	(22.7)	(3,910)	(22.3)
<b>Total sales . . . . .</b>	<b>₩ 17,109</b>	<b>100.0%</b>	<b>₩ 20,408</b>	<b>100.0%</b>	<b>₩ 17,527</b>	<b>100.0%</b>

**Trading Activities.** POSCO Daewoo's trading activities consist of exporting and importing a wide variety of products and commodities, including iron and steel, raw materials for steel production, non-ferrous metals, chemicals, automotive parts, machinery and plant equipment, electronics products, agricultural commodities and textiles. POSCO Daewoo is also engaged in third-country trade that does not involve exports from or imports to Korea. The products are obtained from and supplied to numerous suppliers and purchasers in Korea and overseas, which are procured through a global trading network comprised of overseas trading subsidiaries, branches and representative offices. Such subsidiaries and offices support POSCO Daewoo's trading activities by locating suitable local suppliers and purchasers on behalf of customers, identifying business opportunities and providing information regarding local market conditions.

In most cases, POSCO Daewoo enters into trading transactions after the underlying sale and purchase contracts have been matched, which mitigates inventory and price risks to POSCO Daewoo. POSCO Daewoo typically enters into trading transactions as a principal, and in limited cases as an import or export agent. When acting as a principal or an agent, POSCO Daewoo derives its gross trading profit from the margin between the selling price of the products and the purchase price it pays for such products. In the case of principal transactions, the selling price is recorded as sales and the purchase price is recorded as cost of sales, while only the margin is recorded as sales in the case of agency transactions in which POSCO Daewoo does not assume the risks and rewards of ownership of the goods. In the case of principal transactions, it takes an average of approximately 51 days

between POSCO Daewoo's payment of goods and its receipt of payment from its customers. In the instances in which it acts as an arranger for a third country transaction, POSCO Daewoo derives its gross trading profit from, and records as sales, the commission paid to it by the customer. The sizes of margins and commissions for POSCO Daewoo's trading activities vary depending on a number of factors, including prevailing supply and demand conditions for the product involved, the cost of financing, insurance, storage and transport and the creditworthiness of the customer, and tends to decline as the product or market matures.

In connection with its export and import transactions, POSCO Daewoo has accounts receivable and payable in a number of currencies, but principally in Dollars. POSCO Daewoo's exposure to fluctuations in exchange rates, including the Won/Dollar exchange rate, is limited because trading transactions typically involve matched purchase and sale contracts, which result in limited settlement exposure, and because POSCO Daewoo's contracts with domestic suppliers of products for export and with domestic purchasers of imported products are generally denominated in Dollars. Although the impact of exchange rate fluctuations is substantially mitigated by such strategies, POSCO Daewoo also periodically enters into derivative contracts, primarily currency forward contracts, to further hedge its foreign exchange risks.

In connection with its trading activities, POSCO Daewoo arranges insurance and product transport at the request of customers, the costs of which generally become reflected in the sales price of the relevant products, and also provides financing services to its purchasers and suppliers as necessary. In the case of trading transactions involving large-scale industrial or construction projects, POSCO Daewoo also provides necessary project planning and organizing services to its customers.

**Natural Resources Development Activities.** POSCO Daewoo also invests in energy and mineral development projects throughout the world. In particular, POSCO Daewoo joined a consortium with Korea Gas Corporation, ONGC Videsh Ltd. and the Gas Authority of India Ltd. in November 2002, which made a successful bid in the gas exploration, development and production project in the Myanmar A-1 gas field. In October 2005, the consortium made a successful bid in the gas exploration, development and production project in the Myanmar A-3 gas field, located adjacent to the Myanmar A-1 gas field. In December 2008, the consortium entered into a sales agreement with China National United Oil Corporation to sell the gas produced from the A-1 and A-3 gas fields for a period of 30 years after the commencement of production. In August 2010, Myanmar Oil & Gas Enterprise, the national oil and gas company of Myanmar, acquired a 15.0% interest in each of the projects. As of December 31, 2015, POSCO Daewoo had invested approximately US\$ 1,303 million in the A-1 and A-3 gas field projects, approximately US\$214 million in a related off-shore pipeline project and approximately US\$374 million in a related on-shore pipeline project. POSCO Daewoo plans to make further investments in these gas fields in the future. POSCO Daewoo holds a 51.0% interest in each of the A-1, A-3 and off-shore pipeline projects and a 25.0% interest in the on-shore pipeline project. Production of gas from these gas fields commenced in July 2013 and POSCO Daewoo recognized revenue from the Myanmar gas field project starting in November 2013. POSCO Daewoo recognized revenues of approximately Won 467 billion in 2014 and Won 652 billion in 2015 from the Myanmar gas field project.

Such natural resources development projects, while entailing higher risks than the traditional trading business, offer higher potential returns. POSCO Daewoo intends to continue to expand its operations by carefully seeking out promising energy development projects abroad. POSCO Daewoo mitigates the risks associated with such investments through subsidies from the Special Account for Energy Related Funds that is administered, among others, by Korea National Oil Corporation and Korea Resources Corporation, government agencies that promote natural resources development activities of the fund. The fund subsidizes a portion of the investment amount in the event the investor fails to develop viable deposits. If the natural resources development activities are successful, the investor must reimburse the fund for the subsidy amount, together with accrued interest. In most instances, POSCO Daewoo is required to obtain consent from the Ministry of Trade, Industry & Energy prior to investing in natural resources development projects.

**Competition.** POSCO Daewoo competes principally with six other Korean general trading companies, each of which is affiliated with a major domestic business group, as well as global trading companies based in other countries. In the domestic market, competition for export transactions on behalf of domestic suppliers and import transactions on behalf of domestic purchasers was limited, as most affiliated general trading companies of large Korean business groups generally relied on affiliate transactions for the bulk of their trading business. However, in recent years, many of these Korean general trading companies have reduced their reliance on their affiliated business group and transactions carried out on behalf of their member companies and instead have generally evolved to focus on segments of the import and export markets in which they have a competitive advantage. As a result, competition among Korean general trading companies in the area of traditional trade has become more intense. POSCO Daewoo's principal competitors in the overseas trading markets include Korean trading companies that operate in various international markets, as well as foreign trading companies, particularly those based in Japan. As POSCO Daewoo diversifies into businesses other than traditional trading such as natural resources development, it also increasingly competes with other Korean and international companies involved in these businesses.

### **Construction**

POSCO E&C, our consolidated subsidiary in which we hold a 52.8% interest, is one of the leading engineering and construction companies in Korea, primarily engaged in the planning, design and construction of industrial plants and architectural works and civil engineering projects. In particular, POSCO E&C has established itself as one of the premier engineering and construction companies in Korea through:

- its strong and stable customer base; and
- its cutting-edge technological expertise obtained from construction of advanced integrated steel plants, as well as participation in numerous modernization and rationalization projects at our Pohang Works and Gwangyang Works.

Leveraging its technical know-how and track record of building some of the leading industrial complexes in Korea, POSCO E&C has also focused on diversifying its operations into construction of high-end apartment complexes and participating in a wider range of architectural works and civil engineering projects, as well as engaging in urban planning and development projects and expanding its operations abroad. One of its landmark urban planning and development projects includes the development of a 5.7 million-square meter area of Songdo International City in Incheon, which POSCO E&C is co-developing with Gale International, a respected real estate developer based in the United States. In September 2015, we completed the sale of our 38.0% interest in POSCO E&C to PIF, the sovereign wealth fund of Saudi Arabia, for US\$1.05 billion. In connection with the sale, POSCO E&C and PIF agreed to jointly explore additional business opportunities in Saudi Arabia, including participating in various infrastructure projects sponsored by the Saudi Arabian government.

POSCO E&C also has substantial experience in the energy field obtained from the construction of various power plants for member companies of the POSCO Group, specializing primarily in engineering and construction of liquefied natural gas ("LNG") and coal-fired thermal power plants. In recent years, POSCO E&C has obtained various orders for such power plants, including LNG-fired power plants in Incheon, Korea and coal-fired thermal power plants in Ventanas and Angamos, Chile. In response to increasing demand from the energy industry, POSCO E&C plans to continue to target opportunities in power plant construction, which it believes offers significant growth potential, and thereby enhance its know-how and profitability.

**Competition.** Competition in the construction industry is based primarily on price, reputation for quality, reliability, punctuality and financial strength of contractors. In Korea, POSCO E&C's main competition in the construction of residential and non-residential buildings, EPC projects, urban planning and development projects and civil works projects consists of approximately ten major

domestic construction companies, all of which are member companies of other large business groups in Korea and are capable of undertaking larger-scale, higher-value-added projects that offer greater potential returns. A series of measures introduced by the Government over the past few years to regulate housing prices in Korea, as well as an increasing popularity of low-bid contracts in civil works project mandates, have contributed to increased competition in the Korean construction industry in recent years. In the overseas markets, POSCO E&C faces competition from local construction companies, as well as international construction companies from other countries, including other major Korean construction companies with overseas operations. Construction companies from developed countries may be more experienced, have greater financial resources and possess more sophisticated technology than POSCO E&C, while construction companies from developing countries often have the advantage of lower wage costs.

### **Others**

As part of our diversification efforts, we strive to identify business opportunities that supplement our steel, trading and construction segments, including power generation, LNG logistics and network and system integration.

**POSCO Energy Corporation.** In 2006, we acquired the largest domestic private power utility company that operates LNG combined cycle power generation facilities with total power generation capacity of 1,800 megawatts and renamed it POSCO Energy Corporation. Since our acquisition, POSCO Energy Corporation has expanded its power generation capacity by constructing additional power plants in Korea and Southeast Asia. POSCO Energy Corporation's total power generation capacity was approximately 4,526 megawatts as of December 31, 2015. POSCO Energy Corporation is also selectively seeking opportunities to expand into solar, wind and other renewable energy businesses in order to become an integrated provider of energy solutions.

**LNG Logistics.** In an effort to reduce our dependency on oil, we became the first private company in Korea to import LNG in 2005, and we have steadily increased the use of natural gas for energy generation at our steel production facilities. We operate an LNG receiving terminal that is equipped with two 100,000 kiloliters storage tanks, two 165,000 kiloliters storage tanks and additional facilities with an aggregate capacity to process up to 2.4 million tons of LNG annually in Gwangyang. In order to achieve maximum operational efficiency of our LNG terminal, we participate in the LNG trading and LNG ship gas trial businesses. We are in the process of building a synthetic natural gas production plant with an annual capacity of 500,000 tons in Gwangyang that will become operational during 2016. We believe that the synthetic natural gas production plant provides us with a stable supply of LNG substitutes that we can utilize to meet our growing needs for energy generation.

**Others.** We acquired or established several subsidiaries that address specific services to support the operations of Pohang Works and Gwangyang Works. POSCO ICT Co., Ltd., founded in 1989, provides information and technology consulting and system network integration and outsourcing services. POSCO Processing & Service Co., Ltd., founded in 1994, provides material processing and fabrication services. POSCO Chemtech Company Ltd., formerly POSCO Refractories and Environment Company, Ltd., specializes in the manufacturing of refractories and lime used in steel manufacturing processes as well as a wide range of chemical products.

### **Insurance**

We maintain property insurance for our property, plant and equipment that we believe to be consistent with market practice in Korea.

#### Item 4.C. Organizational Structure

The following table sets out the jurisdiction of incorporation and our ownership interests of our significant subsidiaries:

Name	Jurisdiction of Incorporation	Percentage of Ownership
POSCO Daewoo Corporation .....	Korea	60.3%
POSCO Engineering & Construction Co., Ltd .....	Korea	52.8%
POSCO Energy Corporation .....	Korea	89.0%
Zhangjiagang Pohang Stainless Steel Co., Ltd. ....	China	82.5%
POSCO Processing & Service Co., Ltd. ....	Korea	96.0%
POSCO ICT Co., Ltd. ....	Korea	65.4%

#### Item 4.D. Property, Plants and Equipment

Our principal properties are Pohang Works, which is located at Youngil Bay on the southeastern coast of Korea, and Gwangyang Works, which is located in Gwangyang City in the southwestern region of Korea. We also maintain and operate production properties abroad, including plants operated by Zhangjiagang Pohang Stainless Steel in China, PT. Krakatau POSCO in Indonesia and POSCO SS Vina in Vietnam. We expect to increase our production capacity in the future when we increase our capacity as part of our facilities expansion or as a result of continued modernization and rationalization of our existing facilities. For a discussion of major items of our capital expenditures currently in progress, see “Item 5. Operating and Financial Review and Prospects — Item 5.B. Liquidity and Capital Resources — Liquidity — Capital Expenditures and Capital Expansion.”

#### Pohang Works

Construction of Pohang Works began in 1970 and ended in 1983. Pohang Works currently has an annual crude steel and stainless steel production capacity of 17.6 million tons. Pohang Works produces a wide variety of steel products. Products produced at Pohang Works include hot rolled sheets, plates, wire rods and cold rolled sheets, as well as specialty steel products such as stainless steel sheets and silicon steel sheets. These products can also be customized to meet the specifications of our customers.

Situated on a site of 8.9 million square meters at Youngil Bay on the southeastern coast of Korea, Pohang Works consists of 43 plants, including iron-making, crude steelmaking and continuous casting and other rolling facilities. Pohang Works also has docking facilities capable of accommodating ships as large as 200,000 tons for unloading raw materials, storage areas for up to 34 days’ supply of raw materials and separate docking facilities for ships carrying products for export. Pohang Works consumed approximately 390 thousand tons of LNG and approximately 790 gigawatt hours of electricity in 2015. Pohang Works is equipped with a highly advanced computerized production-management system allowing constant monitoring and control of the production process.

The following table sets out Pohang Works’ capacity utilization rates for the periods indicated.

	As of or for the Year Ended December 31,		
	2013	2014	2015
Crude steel and stainless steel production capacity as of end of the year (million tons per year) .....	17.30	17.40	17.61
Actual crude steel and stainless steel output (million tons) .....	16.18	16.18	16.23
Capacity utilization rate (%) <sup>(1)</sup> .....	93.5	93.0	92.2

(1) Calculated by dividing actual crude steel and stainless steel output by the actual crude steel and stainless steel production capacity for the relevant period as determined by us.

## Gwangyang Works

Construction of Gwangyang Works began in 1985 on a site of 13.7 million square meters reclaimed from the sea in Gwangyang City in the southwestern region of Korea. Gwangyang Works currently has an annual crude steel production capacity of 24.8 million tons. Gwangyang Works specializes in high volume production of a limited number of steel products. Products manufactured at Gwangyang Works include both hot and cold rolled types.

Gwangyang Works is comprised of 47 plants, including iron-making plants, steelmaking plants, continuous casting plants, hot strip mills and thin-slab hot rolling plants. The site also features docking and unloading facilities for raw materials capable of accommodating ships as large as 300,000 tons for unloading raw materials, storage areas for 38 days' supply of raw materials and separate docking facilities for ships carrying products for export. Gwangyang Works consumed approximately 260 thousand tons of LNG and approximately 1,390 gigawatt hours of electricity in 2015.

We believe Gwangyang Works is one of the most technologically advanced integrated steel facilities in the world. Gwangyang Works has a completely automated, linear production system that enables the whole production process, from iron-making to finished products, to take place without interruption. This advanced system reduces the production time for hot rolled products to only four hours. Like Pohang Works, Gwangyang Works is equipped with a highly advanced computerized production-management system allowing constant monitoring and control of the production process.

The following table sets out Gwangyang Works' capacity utilization rates for the periods indicated.

	As of or for the Year Ended December 31,		
	2013	2014	2015
Crude steel production capacity as of end of the year (million tons per year) . . .	20.80	20.80	24.80
Actual crude steel output (million tons) . . . . .	20.23	21.47	21.74
Capacity utilization rate (%) <sup>(1)</sup> . . . . .	97.3	103.2	87.7

(1) Calculated by dividing actual crude steel output by the actual crude steel production capacity for the relevant period as determined by us.

## Production Facilities Abroad

Our various subsidiaries and joint ventures around the world, including Zhangjiagang Pohang Stainless Steel Co., Ltd. in China, PT. Krakatau POSCO Co., Ltd. in Indonesia and POSCO SS Vina Co., Ltd. in Vietnam, engage in steel production activities. For a discussion of such operations, see "Item 4. Information of the Company — Item 4.B. Business Overview — Subsidiaries and Joint Ventures."

### Zhangjiagang Pohang Stainless Steel

The following table sets out Zhangjiagang's capacity utilization rates for the periods indicated.

	As of or for the Year Ended December 31,		
	2013	2014	2015
Crude steel and stainless steel production capacity as of end of the year (million tons per year) . . . . .	1.10	1.10	1.10
Actual crude steel and stainless steel output (million tons) . . . . .	1.10	1.15	1.17
Capacity utilization rate (%) <sup>(1)</sup> . . . . .	100.3	104.9	106.1

(1) Calculated by dividing actual crude steel and stainless steel output by the actual crude steel and stainless steel production capacity for the relevant period as determined by us.

### **PT. Krakatau POSCO**

The following table sets out PT. Krakatau POSCO's capacity utilization rates for the periods indicated.

	As of or for the Year Ended December 31,	
	2014	2015
Crude steel production capacity as of end of the year (million tons per year) . . . . .	3.00	3.00
Actual crude steel output (million tons) . . . . .	1.90	2.72
Capacity utilization rate (%) <sup>(1)</sup> . . . . .	63.4	90.7

(1) Calculated by dividing actual crude steel output by the actual crude steel capacity for the relevant period as determined by us.

### **POSCO SS VINA Co., Ltd.**

The following table sets out POSCO SS VINA's capacity utilization rates for 2015.

	As of or for the Year Ended December 31,
	2015
Crude steel production capacity as of end of the year (million tons per year) . . . . .	1.10
Actual crude steel output (million tons) . . . . .	0.17
Capacity utilization rate (%) <sup>(1)</sup> . . . . .	15.8

(1) Calculated by dividing actual crude steel output by the actual crude steel production capacity for the relevant period as determined by us.

### **The Environment**

We are vigorous in our efforts to engage in environmentally responsible management of, and to protect the environment from damage resulting from, our operations. Our levels of pollution control are higher than those mandated by Government standards. We established an on-line environmental monitoring system with real-time feedback on pollutant levels and a forecast system of pollutant concentration in surrounding areas. We also undergo periodic environmental inspection by both internal and external inspectors in accordance with ISO 14001 standards to monitor execution and maintenance of our environmental management plan. As we continue to diversify our production operations abroad and the importance of comprehensive environmental management continues to grow, we announced an integrated environmental management system in December 2010, pursuant to which all of our subsidiaries located in Korea as well as abroad acquired the ISO 14001 certification. We also operate a certification program targeting our suppliers and outsourcing partners, pursuant to which they are encouraged to establish environmental management systems of their own.

We have taken additional measures to ensure that we are appropriately addressing environmental issues. We recycle most of the by-products from the steelmaking process. A vital part of our production process requires consumption of water, and many of our operations are located on coastal sites or adjacent to major lakes and rivers. Recognizing the importance of water resources, we established mid-to-long-term water management strategies to more effectively utilize water resources, including increasing water recycling, reducing usage volume, developing substitute sources and reducing manufacturing discharge harmful to the environment. As part of our efforts to preserve biological diversity, we supply steel slag that is used in the construction of underwater facilities designed to restore marine ecosystems damaged by rising seawater temperatures. In addition, we have been developing environmentally friendly products such as chrome-free steel sheets in an effort to compete with products from the European Union, the United States and Japan and to meet strengthened environmental regulations. Anticipating the trend toward increasing regulation of chrome in various steel products, we introduced chrome-free steel products meeting international environmental standards in 2006 that are used to manufacture automotive oil tanks.

We plan to continue to invest in developing more environmentally friendly steel manufacturing processes. We commenced research and development for a new steel manufacturing technology called FINEX in 1992 jointly with the Research Institute of Industrial Science and Technology and VOEST Alpine, an Austrian company. We will continue to refine FINEX, a low cost, environmentally friendly steel manufacturing process that we believe optimizes our production capacity by utilizing low-grade iron ore fines and using coal as an energy source and a reducing agent. We believe that FINEX offers considerable environmental and economic advantages by eliminating major sources of pollution such as facilities that pretreat raw materials, as well as decreasing operating and raw material costs.

Our climate change response program seeks to minimize the risks from changes in climate as well as to maximize the opportunities available in such environment by enhancing the energy efficiency of our production process. We have disclosed our carbon dioxide emission levels and efforts to deal with climate changes through various channels, including participating in the Carbon Disclosure Project. The Carbon Disclosure Project is an organization based in the United Kingdom that works with major corporations around the world to disclose their greenhouse gas emission levels. We are also in compliance with the Korea Emissions Trading Scheme, which was launched by the Government in January 2015 to reduce greenhouse gas emissions by limiting the total amount of allowable greenhouse gas emission by a manufacturer.

While we believe we are in compliance with applicable environmental laws and regulations in all material respects, we may be responsible for the investigation and remediation of environmental conditions at currently and formerly operated manufacturing or construction sites. For example, we recognized provision expenses of Won 89 billion in 2014 and Won 2 billion in 2015 related to restoration costs of contaminated land near our magnesium plant in Gangneung, Korea, of which provision of Won 37 billion remained as of December 31, 2015. We spent Won 295 billion in 2013, Won 299 billion in 2014 and Won 168 billion in 2015 on anti-pollution facilities.

#### **Item 4.E. *Unresolved Staff Comments***

We do not have any unresolved comments from the Securities and Exchange Commission staff regarding our periodic reports under the Exchange Act of 1934.

### **Item 5. *Operating and Financial Review and Prospects***

#### **Item 5.A. *Operating Results***

The following discussion and analysis is based on our consolidated financial statements, which have been prepared in accordance with IFRS, as issued by the IASB. Unless otherwise noted, the amounts included in Item 5.A. are presented on a consolidated basis.

#### **Overview**

We are the largest fully integrated steel producer in Korea. We have four reportable operating segments — a steel segment, a trading segment, an engineering and construction segment and a segment that contains operations of all other entities which fall below the reporting thresholds. The steel segment includes production of steel products and sale of such products. The trading segment consists of global trading activities of POSCO Daewoo, exporting and importing a wide range of steel products that are both obtained from and supplied to POSCO, as well as between other suppliers and purchasers in Korea and overseas. The construction segment includes planning, designing and construction of industrial plants, civil engineering projects and commercial and residential buildings, both in Korea and overseas. The “others” segment includes power generation, LNG logistics, and network and system integration. See Note 41 of Notes to Consolidated Financial Statements.

One of the major factors contributing to our historical performance has been the growth of the Korean economy, and our future performance will depend at least in part on Korea’s general economic

growth and prospects. For a description of recent developments that have had and may continue to have an adverse effect on our results of operations and financial condition, see “Item 3. Key Information — Item 3.D. Risk Factors — Korea is our most important market, and our current business and future growth could be materially and adversely affected if economic conditions in Korea deteriorate.” A number of other factors have had or are expected to have a material impact on our results of operations, financial condition and capital expenditures. These factors include:

- our sales volume, unit prices and product mix;
- costs and production efficiency; and
- exchange rate fluctuations.

As a result of these factors, our financial results in the past may not be indicative of future results or trends in those results.

### ***Sales Volume, Prices and Product Mix***

In recent years, our net sales have been affected by the following factors:

- the demand for our products in the Korean market and our capacity to meet that demand;
- our ability to compete for sales in the export market;
- price levels; and
- our ability to improve our product mix.

Domestic demand for our products is affected by the condition of major steel consuming industries, such as construction, shipbuilding, automotive, electrical appliances and downstream steel processors, and the Korean economy in general.

In 2014, unit sales prices in Won for our principal product lines of steel products produced by us and directly sold to external customers, other than hot rolled products and stainless steel products, decreased. The weighted average unit price for such products decreased by 6.2% from 2013 to 2014, in part due to an appreciation in the average value of the Won against the Dollar in 2014 that decreased our export prices in Won terms. The average exchange rate of the Won against the Dollar appreciated from Won 1,095.0 to US\$1.00 in 2013 to Won 1,053.2 to US\$1.00 in 2014.

The unit sales price of wire rods, which accounted for 7.9% of total sales volume of the principal steel products produced by us and directly sold to external customers, decreased by 16.4% in 2014. The unit sales price of plates, which accounted for 15.3% of total sales volume of such products, decreased by 10.6% in 2014. The unit sales price of silicon steel sheets, which accounted for 3.4% of total sales volume of such products, decreased by 6.2% in 2014. The unit sales price of cold rolled products, which accounted for 39.1% of total sales volume of such products, decreased by 5.2% in 2014. On the other hand, the unit sales price of hot rolled products, which accounted for 25.6% of total sales volume of such products, increased by 1.5% in 2014. The unit sales price of stainless steel products, which accounted for 8.7% of total sales volume of such products, increased by 0.1% in 2014.

In 2015, unit sales prices in Won for our principal product lines of steel products produced by us and directly sold to external customers, other than silicon steel sheets, decreased. The weighted average unit price for such products decreased by 14.8% from 2014 to 2015, despite a depreciation in the average value of the Won against the Dollar in 2015 that increased our export prices in Won terms. The average exchange rate of the Won against the Dollar depreciated from Won 1,053.2 to US\$1.00 in 2014 to Won 1,131.5 to US\$1.00 in 2015.

The unit sales price of hot rolled products, which accounted for 27.0% of total sales volume of the principal steel products produced by us and directly sold to external customers, decreased by

20.1% in 2015. The unit sales price of wire rods, which accounted for 8.4% of total sales volume of such products, decreased by 19.5% in 2015. The unit sales price of plates, which accounted for 14.5% of total sales volume of such products, decreased by 19.3% in 2015. The unit sales price of stainless steel products, which accounted for 8.7% of total sales volume of such products, decreased by 14.4% in 2015. The unit sales price of cold rolled products, which accounted for 38.0% of total sales volume of such products, decreased by 11.2% in 2015. On the other hand, the unit sales price of silicon steel sheets, which accounted for 3.3% of total sales volume of such products, increased by 5.1% in 2015.

The table below sets out the average unit sales prices for our semi-finished and finished steel products for the periods indicated.

Products	For the Year Ended December 31,		
	2013	2014	2015
	(In thousands of Won per ton)		
Cold rolled products	₩ 829	₩ 786	₩ 698
Hot rolled products	677	687	549
Stainless steel products	2,576	2,577	2,207
Plates	849	759	612
Wire rods	1,076	900	724
Silicon steel sheets	1,302	1,221	1,284
Average <sup>(1)</sup>	₩ 998	₩ 936	₩ 798

- (1) "Average" prices are based on the weighted average, by sales volume, of our sales for the listed principal products produced by us and directly sold to external customers. See "Item 4. Information on the Company — Item 4.B. Business Overview — Major Products." The average unit sales price calculation does not include sales results of steel products categorized as "others."

### **Costs and Production Efficiency**

Our major costs and operating expenses are raw material purchases, depreciation, labor and other purchases. The table below sets out our cost of sales and selling and administrative expenses as a percentage of our revenue as well as gross profit margin and operating profit margin for the periods indicated.

	For the Year Ended December 31,		
	2013	2014	2015
	(Percentage of net sales)		
Cost of sales	88.9%	88.7%	88.9%
Selling and administrative expenses	6.3	6.3	7.0
Gross margin	11.1	11.3	11.1
Operating profit margin	4.2	3.9	2.5

Our operating profit margin decreased from 4.2% in 2013 to 3.9% in 2014 and further decreased to 2.5% in 2015, reflecting the current challenging business environment as discussed below.

We are closely monitoring changes in market conditions and we implemented the following measures in recent years to address challenges posed by the global economic downturn:

- pursuing cost reduction through enhancing product designs, improving productivity and reducing fixed costs;
- focusing on marketing activities to increase the sales of higher margin, higher value-added products and to strengthen our domestic market position; and
- establishing a special sales committee to more effectively respond to changes in market trends and preparing responses to various scenarios of future sales.

Production capacity represents our maximum production capacity that can be achieved with an optimal level of operations of our facilities. The table below sets out certain information regarding our production capacity and efficiency in the production of steel products for the periods indicated.

	For the Year Ended December 31,		
	2013	2014	2015
Crude steel and stainless steel production capacity (million tons per year) <sup>(1)</sup>	40.4	43.5	47.6
POSCO	38.1	38.2	42.4
POSCO Specialty Steel Co., Ltd. <sup>(1)</sup>	1.2	1.2	—
Zhangjiagang Pohang Stainless Steel Co., Ltd.	1.1	1.1	1.1
PT. Krakatau POSCO Co., Ltd.	—	3.0	3.0
POSCO SS VINA Co., Ltd.	—	—	1.1
Actual crude steel and stainless steel output (million tons) <sup>(2)</sup>	38.3	41.4	42.0
POSCO	36.4	37.7	38.0
POSCO Specialty Steel Co., Ltd. <sup>(1)</sup>	0.7	0.7	—
Zhangjiagang Pohang Stainless Steel Co., Ltd.	1.1	1.2	1.2
PT. Krakatau POSCO Co., Ltd.	—	1.9	2.7
POSCO SS VINA Co., Ltd.	—	—	0.2
Capacity utilization rate (%) <sup>(1)</sup>	94.6%	95.2%	88.3%
POSCO	95.5%	98.6%	89.5%
POSCO Specialty Steel Co., Ltd. <sup>(1)</sup>	61.8%	60.1%	—
Zhangjiagang Pohang Stainless Steel Co., Ltd.	100.3%	104.9%	106.1%
PT. Krakatau POSCO Co., Ltd.	—	63.4%	90.7%
POSCO SS VINA Co., Ltd.	—	—	15.8%

(1) In March 2015, we sold an aggregate of 52.2% of our interest in POSCO Specialty Steel to SeAH Besteel Corp., Shinyoung Securities Co., Ltd. and Shinhan Investment Corp. for approximately Won 419 billion. As a result, we hold a 19.9% interest in POSCO Specialty Steel.

(2) Reflects production capacity of POSCO, Zhangjiagang Pohang Stainless Steel Co., Ltd, PT. Krakatau POSCO Co., Ltd. and POSCO SS VINA Co., Ltd. In 2013 and 2014, also includes production capacity of POSCO Specialty Steel Co., Ltd.

### **Exchange Rate Fluctuations**

Our consolidated financial statements are prepared from our local currency denominated financial results, assets and liabilities and our subsidiaries around the world, which are then translated into Won. A substantial proportion of our consolidated financial results is accounted for in currencies other than the Won. Accordingly, our consolidated financial results and assets and liabilities may be materially affected by changes in the exchange rates of foreign currencies. In 2015, 59.7% of our total revenue from steel products produced and sold by us was in overseas markets outside of Korea. To the extent that we incur costs in one currency and make sales in another, our profit margins may be affected by changes in the exchange rates between the two currencies. Since the currency in which sales are recorded may not be the same as the currency in which expenses are incurred, foreign exchange rate fluctuations may materially affect our results of operations. Depreciation of the Won may materially affect the results of our operations because, among other things, it causes:

- an increase in the amount of Won required for us to make interest and principal payments on our foreign currency-denominated debt;
- an increase in Won terms in the costs of raw materials and equipment that we purchase from overseas sources and a substantial portion of our freight costs, which are denominated primarily in Dollars; and
- foreign exchange translation losses on liabilities, which lower our earnings for accounting purposes.

Appreciation of the Won against major currencies, on the other hand, causes:

- our export products to be less competitive by raising our prices in Dollar terms; and
- a reduction in net sales and accounts receivables in Won from export sales, which are primarily denominated in Dollars.

We strive to naturally offset our foreign exchange risk by matching foreign currency receivables with our foreign currency payables and our overseas subsidiaries have sought to further mitigate the adverse impact of exchange rate fluctuations by conducting business transactions in the local currency of the respective market in which the transactions occur. In particular, POSCO Daewoo's exposure to fluctuations in exchange rates, including the Won/Dollar exchange rate, is limited because trading transactions typically involve matched purchase and sale contracts, which result in limited settlement exposure, and because POSCO Daewoo's contracts with domestic suppliers of products for export and with domestic purchasers of imported products are generally denominated in Dollars. Although the impact of exchange rate fluctuations is partially mitigated by such strategies, we and our subsidiaries, particularly POSCO Daewoo and POSCO E&C, also periodically enter into derivative contracts, primarily foreign currency swaps and forward exchange contracts, to further hedge our foreign exchange risks. However, our results of operations have historically been affected by exchange rate fluctuations and there can be no assurance that such strategies will be sufficient to reduce or eliminate the adverse impact of such fluctuations in the future. Because of the larger positive effects of the appreciation of the Won (i.e., the reverse of the negative effects caused by the depreciation of the Won, as discussed above), depreciation of the Won generally has a negative impact on our results of operations.

### ***Inflation***

Inflation in Korea, which was 1.3% in 2013, 1.3% in 2014 and 0.7% in 2015, has not had a material impact on our results of operations in recent years.

### **Critical Accounting Estimates**

We have prepared our consolidated financial statements in accordance with IFRS as issued by the IASB. These accounting principles require us to make certain estimates and judgments that affect the reported amounts in our consolidated financial statements. Our estimates and judgments are based on historical experience, forecasted future events and various other assumptions that we believe to be reasonable under the circumstances. Estimates and judgments may differ under different assumptions or conditions. We evaluate our estimates and judgments on an ongoing basis. We believe the critical accounting policies discussed below are the most important to the portrayal of our financial condition and results of operations. Each of them is dependent on projections of future market conditions, and they require us to make the most difficult, subjective or complex judgments.

### ***Allowance for Doubtful Accounts***

We maintain an allowance for doubtful accounts for exposures in our receivable balances that represent our estimate of probable losses in our short-term and long-term receivable balances from the inability of our customers to make required payments. If the financial condition of our customers were to deteriorate and negatively impact their ability to make payments, additional allowances may be required. Determining the allowance for doubtful accounts requires significant management judgment and estimates including, among others, the credit worthiness of our customers, experience of historical collection patterns, potential events and circumstances affecting future collections and the ongoing risk assessment of our customer's ability to pay.

Trade account receivables are analyzed on a regular basis and, upon our becoming aware of a customer's inability to meet its financial commitments to us, the value of the receivable is reduced through a charge to the allowance for doubtful accounts. In addition, we record a charge to the allowance for doubtful accounts upon receipt of customer claims in connection with sales that management estimates are unlikely to be collected in full. As of December 31, 2015, the percentage of allowance for doubtful accounts to trade accounts and notes receivable and other receivables was 7.55%. Our allowance for doubtful accounts increased by 4.8%, or Won 46 billion, from Won 954 billion as of December 31, 2014 to Won 1,000 billion as of December 31, 2015. See Note 23 of Notes to Consolidated Financial Statements. Assumptions and judgments related to the allowance for doubtful accounts did not change in 2015.

Specifically, allowances for doubtful accounts are recorded when any of the following loss events occur: (i) there is objective evidence as to the uncollectability of the account observed through bankruptcy, default or involuntary dissolution of the customer; (ii) we lose a lawsuit against the customer or our right of claim gets extinguished; (iii) our costs to collect the account exceed the payments to be received; or (iv) a dispute with the customer over the collection of the account persists for more than three years.

The actual average annual uncollected percentage rate of accounts receivables resulting in write-offs for the three years in the period ended December 31, 2015 was 0.16%. These historical results, as well as current known conditions impacting the collectability of our accounts receivable balances, are significant factors for us when we estimate the amount of the necessary allowance for doubtful accounts. Historically, losses from uncollectible accounts receivables have been within expectations and in line with the allowances established. However, unforeseen circumstances such as adverse market conditions that deviate significantly from our estimates may require us to change the timing of, and make additional allowances to, our receivable balances. In this case, our results of operations, financial condition and net worth could be materially and adversely affected.

### ***Valuation of Financial Instruments including Debt and Equity Securities and Derivatives***

We invest in various financial instruments including debt and equity securities and derivatives. Depending on the accounting treatment specific to each type of financial instrument, an estimate of fair value is required to determine the instrument's effect on our consolidated financial statements.

If available, quoted market prices provide the best indication of fair value. We determine the fair value of our financial instruments using quoted market prices when available, including quotes from dealers trading those securities. If quoted market prices are not available, we determine the fair value based on pricing or valuation models, quoted prices of instruments with similar characteristics, or discounted cash flows. Determining the fair value of unlisted financial instruments involves a significant degree of management resources and judgment as no quoted prices exist and such securities are generally very thinly traded. Derivatives for which quoted market prices are not available are valued using valuation models such as the discounted cash flow method. The key inputs used in the valuation of such derivatives depend upon the type of derivative and the nature of the underlying instrument and include interest rate yield curves, foreign exchange rates, the spot price of the underlying instrument, volatility and correlation. The fair values based on pricing and valuation models and discounted cash flow analysis are subject to various assumptions used that, if changed, could significantly affect the fair value of the investments.

We assess at the end of each reporting period whether there is objective evidence that a financial asset or a group of financial assets is impaired. In the case of equity investments classified as available-for-sale, a significant or prolonged decline in the fair value of the security below its cost is also evidence that the asset is impaired. As part of this impairment review, the investee's operating results, net asset value and future performance forecasts as well as general market conditions are taken into consideration in order to assess whether there is any objective evidence such as significant financial difficulty of the issuer.

We have estimated fair values of material non-marketable securities. We estimated these fair values based on pricing or valuation models, quoted prices of instruments with similar characteristics, or discounted cash flow models. The discounted cash flow model valuation technique is based on the estimated cash flow projections of the underlying investee. Key assumptions and estimates include market conditions, revenue growth rates, operating margin rates, income tax rates, depreciation and amortization rates, the level of capital expenditures, working capital amounts and the discount rates. These estimates are based on historical results of the investee and other market data. In these cash flows projections, the two most significant estimates are the discount rates and revenue growth rates. If the discount rates used in these valuations were increased by 1%, then the estimated fair values would

have decreased by 18% in total. In addition, if the revenue growth rate assumptions were decreased by 1% in the cash flow models, then the estimated fair values would have decreased by 16% in total.

We recognized impairment losses on available-for-sale investments of Won 370 billion in 2014 and Won 143 billion in 2015. Our impairment losses on available-for-sale investments in recent years related primarily to a significant and prolonged decline in the fair value of shares of Hyundai Heavy Industries Co., Ltd. and Dongbu Metal Co., Ltd. below cost.

Historically, our estimates and assumptions used to evaluate impairment of investments have been within expectations. However, unforeseen circumstances such as adverse market conditions that deviate significantly from our estimates may require us to recognize additional losses on impairment of investments. We base our fair value estimates on assumptions we believe to be reasonable, but which are unpredictable and inherently uncertain. The use of alternative estimates and assumptions could increase or decrease the estimated fair values of our investments and potentially result in different impacts on our results of operations.

### ***Long-lived Assets***

At each reporting date, we review the carrying amounts of our tangible and intangible assets (excluding goodwill) to determine whether there is any indication that the carrying amount of those assets may not be recoverable through continuing use. If any such indication exists, the recoverable amount of the asset (or cash generating unit) is reviewed in order to determine the amount of the impairment, if any. The recoverable amount is the higher of the asset's net selling price (fair value reduced by selling costs) and its value in use. When the book value of long-lived asset exceeds the recoverable value of the asset due to obsolescence, physical damage or a decline in market value and such amount is material, the impairment of the asset is recognized and the asset's carrying value is reduced to its recoverable value and the resulting impairment loss is charged to current operations. Such recoverable value is based on our estimates of the future use of assets and is subject to changes in market conditions. Based on an impairment test as of December 31, 2015, we recognized impairment loss on property, plant and equipment amounting to Won 136 billion in 2015.

The depreciable lives and salvage values of our long-lived assets are estimated and reviewed each year based on industry practices and prior experience to reflect economic lives of long-lived assets. Our estimates of the useful lives and recoverable values of long-lived assets are based on historical trends adjusted to reflect our best estimate of future market and operating conditions. Also, our estimates include the expected future period in which the future cash flows are expected to be generated from continuing use of the assets that we review for impairment and cash outflows to prepare the assets for use that can be directly attributed or allocated on a reasonable and consistent basis. If applicable, estimates also include net cash flows to be received or paid for the disposal of the assets at the end of their useful lives. As a result of the impairment review, when the sum of the discounted future cash flows expected to be generated by the assets is less than the book value of the assets, we recognize impairment losses based on the recoverable value of those assets. We make a number of significant assumptions and estimates in the application of the discounted cash flow model to forecast cash flows, including business prospects, market conditions, selling prices and sales volume of products, costs of production and funding sources. The estimated cash flow forecast amounts are derived from the most recent financial budgets for the next five years. For periods beyond the five year forecast period, we use a terminal value approach to estimate the cash flows for the remaining years based on an expected estimated growth rate. This estimated growth rate is based on actual historical results. As of December 31, 2015, we estimated an average discount rate of 5.5% and an average rate of revenue growth of 1.4%. However, given the current economic environment, it is likely that the estimates and assumptions will be more volatile than they have been in the past. Further impairment charges may be required if triggering events occur, such as adverse market conditions, that suggest deterioration in an asset's recoverability or fair value. Assessment of the timing of when such declines become other than temporary and the amount of such impairment is a matter of

significant judgment. Results in actual transactions could differ from those estimates used to evaluate the impairment of such long-lived assets. If our future cash flow projections are not realized, either because of an extended recessionary period or other unforeseen events, impairment charges may be required in future periods.

If the estimated average discount rates used in these valuations were increased by 1%, then the estimated fair values would have decreased by 19.3% in total. If the estimated average rate of revenue growth rate were decreased by 1%, then the estimated fair values would have decreased by 17.2% in total. These sensitivity analyses do not affect the impairment loss due to the absence of an impairment loss indicator for our long-lived assets.

### ***Goodwill***

Goodwill is tested for impairment annually at the level of the groups of cash generating units or whenever changes in circumstances indicate that the carrying amount may not be recoverable. The recoverable amounts of the groups of cash-generating units are determined from the higher of their fair value less cost to sell or their value-in-use calculations. The key assumptions for the value in use calculations are those regarding the discount rates, growth rates and expected changes to selling prices and direct costs during the period.

Our management estimates discount rates using post-tax rates that reflect current market rates for investments of similar risk. Growth rates are based on industry growth forecasts, and changes in selling prices and direct costs are based on historical experience and expectations of future changes in the market. Cash flow forecasts are derived from the most recent financial budgets for the next five years. Beyond the specifically forecasted period, we extrapolate cash flows for the remaining years based on an estimated growth rate. This rate does not exceed the average long-term growth rate for the relevant markets. Once recognized, impairment losses recognized for goodwill are not reversed.

In validating the value in use determined for the cash generating units, the sensitivity of key assumptions used in the discounted cash-flow model such as discount rates and the terminal growth rate was evaluated. If the estimated average discount rates used in these valuations were increased by 0.25%, the estimated value-in-use would have decreased by 3.65% in total. If the estimated terminal growth rates were decreased by 0.25%, the estimated value-in-use would have decreased by 1.24% in total. If the discount rate assumptions were increased by 0.25% or the terminal growth rate assumptions were decreased by 0.25%, there would be no impact on goodwill impairment. Based on an impairment test as of December 31, 2015, we recognized impairment loss on goodwill of Won 99 billion in 2015, which related primarily to impairment of goodwill related to EPC Equities LLP. We believe that determining the existence and impairment of goodwill is a critical accounting estimate because significant management judgment is involved in the evaluation of the value of goodwill, and any reasonably possible changes in the key assumptions on which the recoverable amount is based would cause a change in impairment loss on goodwill. See Note 15 of Notes to Consolidated Financial Statements.

### ***Inventories***

Inventories are stated at the lower of cost or net realizable value. Costs of inventories are determined using the moving-weighted average or weighted average method. Materials-in-transit are determined using the specific identification method. Amounts of inventory are written down to net realizable value due to losses occurring in the normal course of business and the allowance is reported as a contra inventory account, while the related charge is recognized in cost of goods sold.

The net realizable value is determined based on the latest selling price available at the end of each quarter taking into account the directly attributable selling costs. The latest selling price is the base price which is the negotiated selling price based upon the recent transactions entered into with major customers. Considering that our inventory turnover is approximately two months and inventories

at the balance sheet date would be sold during the following two months, we perform valuation of inventories using the base price as of the balance sheet date and adjust for significant changes in selling price occurring subsequent to the reporting date. The selling price range used for determining the net realizable value of our inventories ranged from the inventory cost amount less 16.1% of gross profit margin to the inventory cost amount plus 11.4% of gross profit margin. For inventories in which expected selling prices are less than the cost amount, the necessary adjustment to write-down the inventories to net realizable value is made. There was no recovery in 2013, 2014 and 2015. The valuation losses of inventories recognized within cost of goods sold were Won 49 billion in 2013, Won 42 billion in 2014 and Won 153 billion in 2015.

### ***Investments in Associates and Joint Ventures***

We hold a significant amount of investments in associates and joint ventures, which interests are accounted for using the equity method. As of December 31, 2015, the book value of our investments in associates and joint ventures was Won 3,945 billion. The carrying amounts of our investments in associates and joint ventures are reviewed at the end of the reporting period to determine whether there is any indication of impairment. If any such indication exists, then the asset's recoverable amount is estimated.

We estimate the recoverable amount of an individual asset. If it is impossible to measure the individual recoverable amount of an asset, then we estimate the recoverable amount of cash-generating unit ("CGU"), which is the smallest identifiable group of assets that generates cash inflows that are largely independent of the cash inflows from other assets or groups of assets. The recoverable amount of an asset or CGU is the greater of its value in use and its fair value less costs to sell. The value in use is estimated by applying a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset or CGU for which estimated future cash flows have not been adjusted, to the estimated future cash flows expected to be generated by the asset or CGU. We treat individual operating entities as CGUs, and an impairment loss is recognized if the carrying amount of an asset or a CGU exceeds its recoverable amount. Impairment losses are recognized in profit or loss.

As part of our impairment review, the operating results, net asset value and future performance forecasts of our associates and joint ventures as well as general market conditions are taken into consideration in order to assess whether there is any objective evidence of impairment, such as significant financial difficulty of the associate or joint venture. Unforeseen circumstances such as adverse market conditions that deviate significantly from our estimates may require us to recognize additional losses on impairment of our interest in our associates and joint ventures. We base our fair value estimates on assumptions we believe to be reasonable, but which are unpredictable and inherently uncertain. The use of alternative estimates and assumptions could increase or decrease the estimated fair values used to evaluate impairment of our interest in our associates and joint ventures and potentially have different impacts on our results of operations.

### ***Revenue Recognition for Construction Contracts***

POSCO E&C, our consolidated subsidiary, engages in various construction activities, including construction of industrial plants and commercial and residential buildings, and revenue recognition are different based on types of contracts. When the outcome of a construction contract can be estimated reliably, contract revenue is recognized in profit or loss in proportion to the stage of completion of the project. Contract revenue includes the initial amount agreed in the contract plus any variation in contract work, claims and incentive payments, to the extent that it is probable that they will result in revenue and can be measured reliably. The stage of completion of a contract is determined based on the proportion that contract costs incurred for work performed to date bear to the estimated total contract costs. On the other hand, when the outcome of a construction contract cannot be estimated reliably, the revenue is recognized only to the extent of contract costs incurred that are likely to be recoverable. An expected loss on the construction contract is recognized as an expense immediately.

Our contract revenue recognition policy requires our management to exercise judgment in estimating the outcome of our contracts and measuring the percentage of completion and actual costs incurred in respect of our projects, which affects the amount and timing of recognition of revenues and cost of sales, provisions for estimated losses, charges against current earnings, trade account receivables and advances. Our ability to measure reliably the estimated total cost of a project has a significant effect on the amount and timing of recognizing our sales and cost of sales. The timing of recognition of sales we report may differ materially from the timing of actual contract payments received. In addition, to the extent that sales recognized by us exceed the amount of payments to be received by us, such amount is reflected as trade account receivables on our balance sheet. To the extent payments received by us exceed the sales recognized, such amount is reflected under advances from customers on our balance sheet. Thus our ability to measure reliably the estimated total costs and the percentage of completion also affects the amount of our trade account receivables and advances from customers.

### ***Deferred Income Taxes***

Our deferred income tax assets and liabilities reflect the tax consequences that would follow from the manner in which we expect, at the end of the reporting period, to recover or settle the carrying amount of our assets and liabilities. We recognize deferred income tax liability for all taxable temporary differences associated with investments in subsidiaries, associates and joint ventures, except to the extent that we are able to control the timing of the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. We recognize deferred income tax asset for deductible temporary differences to the extent that it is probable that the temporary difference will reverse in the foreseeable future and taxable profit will be available against which they can be utilized. However, deferred tax is not recognized for taxable temporary differences arising on the initial recognition of goodwill or the initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting profit or loss nor taxable income. The carrying amount of a deferred income tax asset is reviewed at the end of each reporting period and is reduced to the extent that it is no longer probable that sufficient taxable profit will be available to allow the benefit of part or all of that deferred tax asset to be utilized.

We believe that recognition of deferred tax assets and liabilities is a significant accounting policy that requires our management's estimates and assumptions regarding, among other things, the level of future taxable income, interpretation of the tax laws and tax planning. Changes in tax laws, projected levels of taxable income and tax planning could affect the effective tax rate and tax balances recorded by us in the future.

### ***Employee Benefits***

Our accounting of employee benefits for defined benefit plans involves judgments about uncertain events including, but not limited to, discount rates, life expectancy, future pay inflation and expected rate of return on plan assets. The discount rates are determined by reference to the yield at the reporting date on high quality corporate bonds that have maturity dates approximating the terms of our benefits obligations and that are denominated in the same currency in which the benefits are expected to be paid. We determine the net interest expense (income) on the net defined benefit liability (asset) for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period to the then-net defined benefit liability (asset), taking into account any changes in the net defined benefit liability (asset) during the period as a result of contributions and benefit payments, net interest expense, and other expenses related to defined benefit plans that are recognized in profit or loss. Due to changing market and economic conditions, the underlying key assumptions may differ from actual developments and may lead to significant changes in our defined benefit plan. We immediately recognize all actuarial gains and losses arising from defined benefit plans in retained earnings. If the estimated average discount rates by actuarial assumptions used in these

valuations were increased by 1%, then the estimated provision for severance benefits would have decreased by Won 133 billion, or 7.8% in total. If the estimated future pay inflation rates were decreased by 1%, then the estimated provision for severance benefits would have decreased by Won 130 billion, or 7.6% in total.

#### **Explanatory Note Regarding Presentation of Certain Financial Information under K-IFRS**

In addition to preparing financial statements in accordance with IFRS as issued by the IASB included in this annual report, we also prepare financial statements in accordance with K-IFRS as adopted by the KASB, which we are required to file with the Financial Services Commission and the Korea Exchange under the FSCMA.

During the three years ended December 31, 2015, we are required to adopt certain amendments and interpretations to K-IFRS, relating to presentation of operating profit. Additionally, under K-IFRS, revenue from the development and sale of real estate is recognized using the percentage of completion method. However, under IFRS as issued by the IASB, revenue from the development and sale of certain real estate is recognized when an individual unit of residential real estate is delivered to the buyer. As a result, our consolidated statements of comprehensive income and our consolidated statements of financial position prepared in accordance with IFRS as issued by the IASB included in this annual report differ from our consolidated statements of comprehensive income and consolidated statements of financial position prepared in accordance with K-IFRS. The table below sets forth a reconciliation of our operating profit and net income or loss as presented in our consolidated statements of comprehensive income prepared in accordance with IFRS as issued by the IASB for each of the years ended December 31, 2013, 2014 and 2015 to our operating profit and net income or loss in our consolidated statements of comprehensive income prepared in accordance with K-IFRS, for each of the corresponding years, taking into account such differences:

	<b>For the Year Ended December 31,</b>		
	<b>2013</b>	<b>2014</b>	<b>2015</b>
	<b>(In millions of Won)</b>		
Operating profit under IFRS as issued by the IASB	₩ 2,566,269	₩ 2,512,998	₩ 1,486,380
Additions:			
Impairment loss on assets held for sale	1,814	17,205	133,547
Loss on disposals of assets held for sale	26,498	14	190,357
Loss on disposals of investments in subsidiaries, associates and joint ventures	19,404	2,556	18,996
Loss on disposals of property, plant and equipment	121,133	50,006	101,732
Impairment loss on property, plant and equipment	9,742	64,833	136,269
Impairment loss on intangible assets	125,316	55,220	161,412
Other bad debt expenses	111,065	96,373	158,071
Idle tangible assets expenses	17,624	12,214	12,773
Impairment loss on other non-current assets	9,000	38,137	12,264
Other provision expenses	65,896	126,601	18,396
Donations	60,940	69,544	62,957
Others	82,374	446,971	435,524
	<u>650,806</u>	<u>979,674</u>	<u>1,442,298</u>
Deductions:			
Gain on disposals of assets held for sale	(101,611)	(48,232)	(227,956)
Gain on disposals of investments in subsidiaries, associates and joint ventures	(7,668)	(41,258)	(88,718)
Gain on disposals of property, plant and equipment	(14,177)	(15,039)	(22,730)
Recovery of allowance for other doubtful accounts	—	—	(10,452)
Rental revenues	(1,588)	(1,743)	(1,019)
Gain on insurance proceeds	(1,000)	(2,924)	(14,976)
Others	(103,029)	(160,210)	(183,197)
	<u>(229,073)</u>	<u>(269,406)</u>	<u>(549,048)</u>
Revenue recognition related to development and sale of real estate	98,907	339,820	(329,923)
Cost of sales recognition related to development and sale of real estate	(90,775)	(349,556)	360,336
Operating profit under K-IFRS	<u>₩ 2,996,134</u>	<u>₩ 3,213,530</u>	<u>₩ 2,410,043</u>
Net income (loss) under IFRS as issued by the IASB	₩ 1,349,016	₩ 564,039	₩ (116,215)
Adjustments related to development and sale of real estate:			
Revenue	98,907	339,820	(329,923)
Cost of sales	(90,775)	(349,556)	360,336
Income tax	(1,968)	2,356	(10,379)
Net income (loss) under K-IFRS	<u>₩ 1,355,180</u>	<u>₩ 556,659</u>	<u>₩ (96,181)</u>

## Operating Results — 2014 Compared to 2015

The following table presents our income statement information and changes therein for 2014 and 2015.

	For the Year Ended December 31,		Changes 2014 versus 2015	
	2014	2015	Amount	%
		(In billions of Won)		
Revenue .....	₩ 64,759	₩ 58,522	₩ (6,236)	(9.6)%
Cost of sales .....	57,465	52,018	(5,447)	(9.5)
Gross profit .....	7,293	6,504	(789)	(10.8)
Administrative expenses .....	2,310	2,395	85	3.7
Selling expenses .....	1,760	1,729	(31)	(1.8)
Other operating income .....	269	549	280	103.8
Other operating expenses .....	980	1,442	463	47.2
Operating profit .....	2,513	1,486	(1,027)	(40.9)
Share of loss of equity-accounted investees .....	300	506	206	68.7
Finance income .....	2,397	2,557	160	6.7
Finance costs .....	3,222	3,387	165	5.1
Profit before income tax .....	1,388	150	(1,238)	(89.2)
Income tax expense .....	824	267	(557)	(67.6)
Profit (loss) .....	564	(116)	(680)	N.A. <sup>(1)</sup>
Profit for the period attributable to owners of the controlling company .....	633	171	(461)	(72.9)
Loss for the period attributable to non-controlling interests .....	(69)	(288)	(219)	319.0

(1) N.A. means not applicable.

## Revenue

The following table presents our revenue by segment and changes therein for 2014 and 2015.

	For the Year Ended December 31,		Changes	
	2014	2015	2014 versus 2015	
	(In billions of Won)		Amount	%
Steel Segment:				
External revenue	₩ 31,842	₩ 28,293	₩ (3,549)	(11.1)%
Internal revenue	17,755	16,544	(1,211)	(6.8)
Total revenue from Steel Segment	49,597	44,837	(4,760)	(9.6)
Trading Segment:				
External revenue	21,166	18,315	(2,850)	(13.5)
Internal revenue	10,095	8,692	(1,403)	(13.9)
Total revenue from Trading Segment	31,261	27,008	(4,253)	(13.6)
Construction Segment:				
External revenue	8,119	8,516	397	4.9
Internal revenue	2,185	1,352	(832)	(38.1)
Total revenue from Construction Segment	10,304	9,868	(436)	(4.2)
Others Segment:				
External revenue	3,972	3,068	(903)	(22.7)
Internal revenue	3,095	2,691	(403)	(13.0)
Total revenue from Others Segment	7,066	5,760	(1,307)	(18.5)
Total revenue prior to consolidation adjustments and basis difference	98,228	87,472	(10,756)	(11.0)
Consolidation adjustments	(33,129)	(29,279)	3,850	(11.6)
Basis difference <sup>(1)</sup>	(340)	330	670	N.A. <sup>(2)</sup>
Revenue	₩ 64,759	₩ 58,522	(6,236)	(9.6)

(1) Basis difference is related to the difference in recognizing revenue and expenses of the Construction Segment in connection with development and sale of certain residential real estate between the report reviewed by the chief executive officer and the consolidated financial statements. See Notes 3 and 41 of Notes to Consolidated Financial Statements.

(2) N.A. means not applicable.

Our revenue decreased by 9.6%, or Won 6,236 billion, from Won 64,759 billion in 2014 to Won 58,522 billion in 2015 primarily due to decreases in external revenues from the Steel Segment, the Trading Segment and the Others Segment, which were offset in part by an increase in external revenues from the Construction Segment. Specifically:

**Steel Segment.** External revenue from the Steel Segment, which does not include internal revenue from inter-company transactions that are eliminated during consolidation, decreased by 11.1%, or Won 3,549 billion, from Won 31,842 billion in 2014 to Won 28,293 billion primarily due to a decrease in the average unit sales price per ton of the principal steel products produced by us and directly sold to external customers, which was offset in part by an increase in our sales volume of the steel products produced by us and directly sold to external customers (including miscellaneous steel products not included in any of our major product categories). The weighted average unit sales price per ton of the principal steel products produced by us and directly sold to external customers decreased by 14.8% from Won 936,405 per ton in 2014 to Won 798,217 per ton in 2015, while the overall sales volume of the steel products produced by us and directly sold to external customers (including miscellaneous steel products) increased by 3.9% from 30.4 million tons in 2014 to 31.6 million tons in 2015. Such factors were principally attributable to the following:

- The unit sales prices in Won of hot rolled products, wire rods, plates, stainless steel products and cold rolled products produced by us and directly sold to external customers decreased

by 20.1%, 19.5%, 19.3%, 14.4% and 11.2%, respectively, from 2014 to 2015. On the other hand, the unit sales prices in Won of silicon steel sheets produced by us and directly sold to external customers increased by 5.1% from 2014 to 2015. For a discussion of changes in the unit sales prices of each of our principal product lines, see “— Overview — Sales Volume, Prices and Product Mix” above.

- The sales volume of wire rods, hot rolled products, stainless steel products and cold rolled products produced by us and directly sold to external customers increased by 11.2%, 9.7%, 4.1% and 1.0%, respectively, from 2014 to 2015. On the other hand, our sales volume of plates and silicon steel sheets produced by us and directly sold to external customers decreased by 1.1% and 0.7%, respectively, from 2014 to 2015. For a discussion of changes in sales volume of each of our principal product lines, see “Item 4.B. Business Overview — Major Products.”

Total revenue from the Steel Segment, which includes internal revenue from inter-company transactions, decreased by 9.6%, or Won 4,760 billion, from Won 49,597 billion in 2014 to Won 44,837 billion in 2015 as internal revenue from inter-company transactions decreased by 6.8%, or Won 1,211 billion, from Won 17,755 billion in 2014 to Won 16,543 billion in 2015. Such decrease primarily reflected a decrease in the average unit sales price of the steel products sold to our sales subsidiaries, which was offset in part by an increase in reliance on sales subsidiaries for the sale of our steel products.

**Trading Segment.** External revenue from the Trading Segment, which does not include internal revenue from inter-company transactions that are eliminated during consolidation, decreased by 13.5%, or Won 2,850 billion, from Won 21,166 billion in 2014 to Won 18,315 billion in 2015 primarily due to a decrease in third-country trades by POSCO Daewoo and our other trading subsidiaries from 2014 to 2015, reflecting market conditions related to the deterioration of the global economy that has been characterized by weaker demand and falling prices for export and import products, reduced trading volume and intense competition among trading companies, which were partially offset by an increase in revenue from natural resources development activities, particularly from revenue related to the gas produced at the Myanmar gas fields.

Total revenue from the Trading Segment, which includes internal revenue from inter-company transactions, decreased by 13.6%, or Won 4,253 billion, from Won 31,261 billion in 2014 to Won 27,008 billion in 2015 as internal revenue from inter-company transactions decreased by 13.9%, or Won 1,403 billion, from Won 10,095 billion in 2014 to Won 8,692 billion in 2015 primarily due to the reasons stated above.

**Construction Segment.** External revenue from the Construction Segment, which does not include internal revenue from inter-company transactions that are eliminated during consolidation, increased by 4.9%, or Won 397 billion, from Won 8,119 billion in 2014 to Won 8,516 billion in 2015 primarily due to an increase in POSCO E&C’s construction activities in Brazil relating to the construction of a steel plant.

Total revenue from the Construction Segment, which includes internal revenue from inter-company transactions, decreased by 4.2%, or Won 436 billion, from Won 10,304 billion in 2014 to Won 9,868 billion in 2015 as internal revenue from inter-company transactions decreased by 38.1%, or Won 832 billion, from Won 2,185 billion in 2014 to Won 1,352 billion in 2015. Such decrease primarily reflected a decrease in the amount of construction activities for member companies of the POSCO Group, which was partially offset by an increase in external revenue as discussed above.

**Others Segment.** The Others Segment includes power generation, LNG production, network and system integration, logistics and magnesium coil and sheet production. External revenue from the Others Segment, which does not include internal revenue from inter-company transactions that are eliminated during consolidation, decreased by 22.7%, or Won 903 billion, from Won 3,972 billion in

2014 to Won 3,068 billion in 2015 primarily due to a decrease in revenue of POSCO Energy Corporation reflecting a decrease in the unit price of electric power sold, which was offset in part by an increase in the volume of power sold.

Total revenue from the Others Segment, which includes internal revenue from inter-company transactions, decreased by 18.5%, or Won 1,307 billion, from Won 7,066 billion in 2014 to Won 5,760 billion in 2015 as internal revenue from inter-company transactions decreased by 13.0%, or Won 403 billion, from Won 3,095 billion in 2014 to Won 2,691 billion in 2015. Such decrease primarily reflected a decrease in inter-company sales of POSCO ICT Co., Ltd. due to a general reduction in investments made by the POSCO Group in 2015, which in turn reduced demand for system network integration and outsourcing services provided by POSCO ICT Co., Ltd. In addition, inter-company sales between eNtoB Corporation and POSCO E&C related to the construction of a synthetic natural gas production plant in Gwangyang also decreased in 2015 due to the substantial completion of POSCO E&C's construction activities during 2015.

### Cost of Sales

Our cost of sales decreased by 9.5%, or Won 5,447 billion, from Won 57,465 billion in 2014 to Won 52,018 billion in 2015. The decrease in cost of sales was primarily due to decreases in the average price in Won terms of key raw materials that were used to manufacture our finished goods sold, as well as a decrease in trading activities as discussed above, which were partially offset by an increase in our sales volume of steel products.

The following table presents a breakdown of our cost of sales by segment, prior to adjusting for inter-company transactions that are eliminated during consolidation, and changes therein for 2014 and 2015.

	For the Year Ended December 31,		Changes	
	2014	2015	2014 versus 2015	
	(In billions of Won)		Amount	%
Steel Segment	₩ 44,587	₩ 40,381	₩ (4,207)	(9.4)%
Trading Segment	29,884	25,563	(4,321)	(14.5)
Construction Segment	9,554	9,248	(305)	(3.2)
Others Segment	6,366	5,158	(1,208)	(19.0)
Consolidation adjustments	(32,577)	(28,692)	3,884	(11.9)
Basis difference <sup>(1)</sup>	(350)	360	710	N.A. <sup>(2)</sup>
Cost of sales	₩ 57,465	₩ 52,018	(5,447)	(9.5)

(1) Basis difference is related to the difference in recognizing revenue and expenses of the Construction Segment in connection with development and sale of certain residential real estate between the report reviewed by the chief executive officer and the consolidated financial statements. See Notes 3 and 41 of Notes to Consolidated Financial Statements.

(2) N.A. means not applicable.

**Steel Segment.** The cost of sales of our Steel Segment, prior to consolidation adjustments, decreased by 9.4%, or Won 4,207 billion, from Won 44,587 billion in 2014 to Won 40,381 billion in 2015 primarily due to decreases in the average price in Won terms of key raw materials that were used to manufacture our finished goods sold, the impact of which was partially offset by an increase in our sales volume of the principal steel products produced by us and directly sold to external customers.

**Trading Segment.** The cost of sales of our Trading Segment, prior to consolidation adjustments, decreased by 14.5%, or Won 4,321 billion, from Won 29,884 billion in 2014 to Won 25,563 billion in 2015 primarily due to decreases in cost of export and import products sold as well as our trading volumes, the impact of which was partially offset by an increase in the production costs related to gas produced at the Myanmar gas fields and sold to customers.

**Construction Segment.** The cost of sales of our Construction Segment, prior to consolidation adjustments, decreased by 3.2%, or Won 305 billion, from Won 9,554 billion in 2014 to Won 9,248 billion in 2015 in line with the decrease in total revenue from the Construction Segment.

**Others Segment.** The cost of sales of our Others Segment, prior to consolidation adjustments, decreased by 19.0%, or Won 1,208 billion, from Won 6,366 billion in 2014 to Won 5,158 billion in 2015 primarily due to decreases in the average price in Won terms of key raw materials of POSCO Energy Corporation.

### Gross Profit

Our gross profit decreased by 10.8%, or Won 789 billion, from Won 7,293 billion in 2014 to Won 6,504 billion in 2015 primarily due to decreases in gross profit of our Steel Segment, Construction Segment and Others Segment, which were partially offset by an increase in gross profit of our Trading Segment. Our gross margin decreased from 11.3% in 2014 to 11.1% in 2015.

The following table presents our gross profit by segment, prior to adjusting for inter-company transactions that are eliminated during consolidation, and changes therein for 2014 and 2015.

	For the Year Ended December 31,		Changes	
			2014 versus 2015	
	2014	2015	Amount	%
	(In billions of Won)			
Steel Segment	₩ 5,010	₩ 4,456	₩ (553)	(11.0)%
Trading Segment	1,376	1,445	68	4.9
Construction Segment	750	619	(130)	(17.4)
Others Segment	700	601	(99)	(14.1)
Consolidation adjustments	(553)	(587)	(34)	6.2
Basis difference <sup>(1)</sup>	10	(30)	(40)	N.A. <sup>(2)</sup>
Gross profit	₩ 7,293	₩ 6,504	(789)	(10.8)

(1) Basis difference is related to the difference in recognizing revenue and expenses of the Construction Segment in connection with development and sale of certain residential real estate between the report reviewed by the chief executive officer and the consolidated financial statements. See Notes 3 and 41 of Notes to Consolidated Financial Statements.

(2) N.A. means not applicable.

**Steel Segment.** The gross profit of our Steel Segment, prior to consolidation adjustments, decreased by 11.0%, or Won 553 billion, from Won 5,010 billion in 2014 to Won 4,456 billion in 2015 primarily due to a decrease in the average unit sales price per ton of the principal steel products produced by us and directly sold to external customers, which was partially offset by a decrease in the average price in Won terms of coal and other key raw materials that were used to manufacture our finished steel products sold and an increase in the overall sales volume of our principal steel products, as discussed above. The gross margin of our Steel Segment, which is gross profit as a percentage of total revenue prior to consolidation adjustments, decreased from 10.1% in 2014 to 9.9% in 2015.

**Trading Segment.** The gross profit of our Trading Segment, prior to consolidation adjustments, increased by 4.9%, or Won 68 billion, from Won 1,376 billion in 2014 to Won 1,445 billion in 2015, reflecting POSCO Daewoo's and our other trading subsidiaries' efforts to streamline their trading operations to focus on higher margin trades, as well as an increase in gross profit of the Myanmar gas fields. The gross margin of our Trading Segment, prior to consolidation adjustments, increased from 4.4% in 2014 to 5.3% in 2015.

**Construction Segment.** The gross profit of our Construction Segment, prior to consolidation adjustments, decreased by 17.4%, or Won 130 billion, from Won 750 billion in 2014 to Won 619 billion in 2015, and the gross margin decreased from 7.3% in 2014 to 6.3% in 2015 primarily due to a

decrease in construction activities for member companies of the POSCO Group, as well as the weakening of market conditions in the domestic construction industry in 2015 that resulted in an increase in competition.

**Others Segment.** The gross profit of our Others Segment, prior to consolidation adjustments, decreased by 14.1%, or Won 99 billion, from Won 700 billion in 2014 to Won 601 billion in 2015 primarily due to decreases in gross profit of POSCO Chemtech Co., Ltd., POS-HIMetal Co., Ltd. and POSCO ICT Co., Ltd. Despite such decreases, gross margin increased from 9.9% in 2014 to 10.4% in 2015 due to the larger decrease in revenue as discussed above.

### **Selling and Administrative Expenses**

The following table presents a breakdown of our selling and administrative expenses and changes therein for 2014 and 2015.

	For the Year Ended December 31,		Changes	
	2014	2015	2014 versus 2015	
	(In billions of Won)		Amount	%
Freight and custody expenses	₩ 1,552	₩ 1,532	₩ (20)	(1.3)%
Sales commissions	66	80	14	20.8
Sales promotion	26	22	(3)	(12.9)
Sales insurance premium	40	31	(9)	(22.4)
Contract cost	50	38	(11)	(23.0)
Others	27	25	(2)	(5.6)
Total selling expenses	₩ 1,760	₩ 1,729	(31)	(1.8)
Wages and salaries	₩ 781	₩ 811	₩ 29	3.8%
Expenses related to post-employment benefits	67	87	21	30.8
Other employee benefits	174	194	20	11.4
Depreciation and amortization	273	274	1	0.3
Taxes and public dues	56	74	19	33.5
Rental	137	120	(18)	(12.8)
Advertising	104	91	(14)	(13.2)
Research and development	175	136	(40)	(22.7)
Service fees	216	219	3	1.3
Bad debt allowance	109	190	81	74.1
Others	217	200	(16)	(7.5)
Total administrative expenses	₩ 2,310	₩ 2,395	85	3.7
Total selling and administrative expenses	₩ 4,070	₩ 4,124	54	1.3

Our selling and administrative expenses increased by 1.3%, or Won 54 billion, from Won 4,070 billion in 2014 to Won 4,124 billion in 2015 primarily due to increases in bad debt allowance, labor-related expenses and expenses related to post-employment benefits, which were partially offset by a decrease in research and development expenses and freight and custody expenses. Such factors were principally attributable to the following:

- Our bad debt allowance increased by 74.1%, or Won 81 billion, from Won 109 billion in 2014 to Won 190 billion in 2015 primarily due to additional bad debt allowance recognized related to POSCO Daewoo's outstanding receivables in Kazakhstan as well as POSCO E&C's bad debt allowance related to pre-sales of residential apartments in Chungnam, Korea.
- Our labor-related expenses included in selling and administrative expenses, which consist of wages and salaries, other employee benefits and expenses related to post-employment benefits, increased by 6.8%, or Won 70 billion, from Won 1,022 billion in 2014 to Won 1,092 billion in 2015 primarily due to increases in wages as well as post-employment



	For the Year Ended December 31,		Changes	
			2014 versus 2015	
	2014	2015	Amount	%
	(In billions of Won)			
Impairment loss on assets held for sale	₩ 17	134	116	676.2%
Loss on disposals of assets held for sale	0	190	190	N.A. <sup>(1)</sup>
Loss on disposals of investments in subsidiaries, associates and joint ventures	3	19	16	643.2
Loss on disposals of property, plant and equipment	50	102	52	103.4
Impairment loss on property, plant and equipment	65	136	71	110.2
Impairment loss on intangible assets	55	161	106	192.3
Other bad debt expenses	96	158	62	64.0
Idle tangible assets expenses	12	13	1	4.6
Impairment loss on other non-current assets	38	12	(26)	(67.8)
Other provision expenses	127	18	(108)	(85.5)
Donations	70	63	(7)	(9.5)
Others <sup>(2)</sup>	447	436	(11)	(2.6)
Total other operating expenses	₩ 980	₩ 1,442	463	47.2

(1) N.A. means not applicable.

(2) Includes penalty and additional tax payments of Won 352 billion in 2014 and lawsuit settlement expenses of Won 299 billion in 2015.

Our other operating expenses increased by 47.2%, or Won 463 billion, from Won 980 billion in 2014 to Won 1,442 billion in 2015, primarily due to our recognition of lawsuit settlement expenses in 2015 related to the litigation with Nippon Steel & Sumitomo Metal Corporation as well as increases in our loss on disposals of assets held for sale, impairment loss on assets held for sale, impairment loss on intangible assets and impairment loss on property, plant and equipment, which were partially offset by decreases in penalty and additional tax payments and our other provision expenses. Such factors were principally attributable to the following:

- We recognized lawsuit settlement expenses of Won 299 billion in 2015 related to the litigation with Nippon Steel & Sumitomo Metal Corporation, compared to no such expenses in 2014. See “Item 8.A. Consolidated Statements and Other Financial Information — Legal Proceedings.”
- We recognized a loss on disposals of assets held for sale of Won 190 billion in 2015 primarily due to the disposal of our investment in Nacional Minerios S.A. In 2014, we only recognized Won 14 million of loss on disposals of assets held for sale.
- Our impairment loss on assets held for sale increased by 676.2%, or Won 116 billion, from Won 17 billion in 2014 to Won 134 billion in 2015 primarily due to classification of our investment in Nacional Minerios S.A. as assets held for sale and impairment loss from the fair value of such investment less cost to sell being below the carrying amount.
- Our impairment loss on intangible assets increased by 192.3%, or Won 106 billion, from Won 55 billion in 2014 to Won 161 billion in 2015 primarily due to impairment losses in goodwill in 2015 relating to EPC Equities LLP of Won 46 billion, POSCO Plantec Co., Ltd. of Won 38 billion and POSCO Thainox Public Company Limited of Won 16 billion.
- Our impairment loss on property, plant and equipment increased by 110.2%, or Won 71 billion, from Won 65 billion in 2014 to Won 136 billion in 2015 primarily due to an impairment loss of Won 46 billion related to the suspension of operation of our magnesium plant in Gangneung, Korea.
- Our penalty and additional tax payments decreased by 98.7%, or Won 348 billion, from Won 352 billion in 2014 to Won 5 billion in 2015 primarily due to additional tax payments of

Won 272 billion resulting from Korea National tax Service's periodic audit completed in 2014, which mostly related to value added taxes, compared to no such expenses in 2015.

- Our other provision expenses decreased by 85.5%, or Won 108 billion, from Won 127 billion in 2014 to Won 18 billion in 2015 primarily due to a decrease in our provision related to restoration costs of contaminated land near our magnesium plant in Gangneung, Korea, from Won 89 billion in 2014 to Won 37 billion in 2015.

### **Operating Profit**

Due to the factors described above, our operating profit decreased by 40.9%, or Won 1,027 billion, from Won 2,513 billion in 2014 to Won 1,486 billion in 2015. Our operating margin decreased from 3.9% in 2014 to 2.5% in 2015.

### **Share of Loss of Equity-Accounted Investees**

Our share of loss of equity-accounted investees increased by 68.7%, or by Won 206 billion, from Won 300 billion in 2014 to Won 506 billion in 2015. In 2014, we recognized a net loss for our proportionate share of equity-accounted investees of Won 300 billion primarily due to our share of loss of POSCO Plantec Co., Ltd. (Won 211 billion) and CSP-Compania Siderurgica do Pecem (Won 57 billion), which was partially offset by our share of profit of KOBRASCO (Won 30 billion) and South-East Asia Gas Pipeline Company Ltd. (Won 26 billion). In 2015, we recognized a net loss for our proportionate share of equity-accounted investees of Won 506 billion primarily due to our share of losses of Eureka Moly LLC (Won 147 billion), CSP-Compania Siderurgica do Pecem (Won 145 billion) and DMSA/AMSA (Won 138 billion), which were partially offset by our share of profits of South-East Asia Gas Pipeline Company Ltd. (Won 54 billion), KOBRASCO (Won 31 billion) and AES-VCM Mong Duong Power Company Limited (Won 30 billion). For a discussion of our share of profits or losses of equity-accounted investees, see Note 11 of Notes to Consolidated Financial Statements.

### **Finance Income and Finance Costs**

The following table presents a breakdown of our finance income and costs and changes therein for 2014 and 2015.

	For the Year Ended December 31,		Changes	
			2014 versus 2015	
	2014	2015	Amount	%
	(In billions of Won)			
Interest income	₩ 228	₩ 210	₩ (18)	(7.9)%
Dividend income	48	184	136	284.1
Gain on foreign currency transactions	1,022	1,025	3	0.3
Gain on foreign currency translations	453	466	13	2.8
Gain on derivatives transactions	328	366	39	11.8
Gain on valuation of derivatives	73	155	82	112.0
Gain on disposals of available-for-sale financial assets	236	139	(97)	(41.2)
Others	7	11	3	46.0
Total finance income	₩ 2,397	₩ 2,557	160	6.7
Interest expenses	₩ 796	₩ 789	(7)	(0.9)%
Loss on foreign currency transactions	1,034	1,157	123	11.9
Loss on foreign currency translations	429	717	288	67.1
Loss on derivatives transactions	353	343	(10)	(2.9)
Loss on valuation of derivatives	101	72	(29)	(28.8)
Impairment loss on available-for-sale financial assets	370	143	(227)	(61.4)
Others	139	166	27	19.4
Total finance costs	₩ 3,222	₩ 3,387	165	5.1

We recognized a net gain on foreign currency translations of Won 25 billion in 2014 compared to a net loss on foreign currency translations of Won 251 billion in 2015, and net loss on foreign currency transactions increased more than ten-fold, or Won 120 billion, from Won 11 billion in 2014 to Won 132 billion in 2015, as the Won depreciated against the Dollar in both 2014 and 2015 and the Won appreciated against the Yen in 2014 while it depreciated against the Yen in 2015. In terms of the market average exchange rates announced by Seoul Money Brokerage Services, Ltd., the Won depreciated from Won 1,055.3 to US\$1.00 as of December 31, 2013 to Won 1,099.2 to US\$1.00 as of December 31, 2014 and depreciated further to Won 1,172.0 to US\$1.00 as of December 31, 2015. The Won appreciated against the Yen from Won 1,004.7 per Yen 100 as of December 31, 2013 to Won 920.1 per Yen 100 as of December 31, 2014 but depreciated to Won 972.0 per Yen 100 as of December 31, 2015. Against such fluctuations, we recognized a net loss on valuation of derivatives of Won 28 billion in 2014 compared to a net gain on valuations of derivatives of Won 83 billion in 2015, as well as a net loss on transactions of derivatives of Won 26 billion in 2014 compared to a net gain on transactions of derivatives of Won 23 billion in 2015.

Our gain on disposals of available-for-sale financial assets decreased by 41.2%, or Won 97 billion, from Won 236 billion in 2014 to Won 139 billion in 2015. Our gain in 2014 related primarily to our disposal of interest in SK Telecom Co., Ltd., and our gain in 2015 related primarily to our acquisition of, and subsequent partial disposal of, shares in Congonhas Minerios S.A., as well as our disposal of interest in Sandfire Resources NL by POSCO Australia Pty Ltd. We acquired shares in Congonhas Minerios S.A., a Brazil-based iron ore mining company, in exchange for our shares in Nacional Minerios S.A. For a discussion of our impairment loss on our investment in Nacional Minerios S.A., see “— Operating Results — 2014 Compared to 2015 — Other Operating Income and Expenses.”

Our impairment loss on available-for-sale financial assets decreased by 61.4%, or Won 227 billion, from Won 370 billion in 2014 to Won 143 billion in 2015 primarily due to a decrease in our impairment in recent years that related primarily to a significant and prolonged decline in the fair value of shares of Hyundai Heavy Industries Co., Ltd. and Dongbu Metal Co., Ltd. below cost.

Our dividend income increased by 284.1%, or Won 136 billion, from Won 48 billion in 2014 to Won 184 billion in 2015 primarily due to the dividend we received from Nacional Minerios S.A.

### ***Income Tax Expense***

Our income tax expense decreased by 67.6%, or Won 557 billion, from Won 824 billion in 2014 to Won 267 billion in 2015. Our effective tax rate increased from 59.4% in 2014 to 177.3% in 2015 primarily due to an increase in tax related to investments in subsidiaries, associates and joint ventures from Won 372 billion in 2014 to Won 440 billion in 2015 (that resulted in an increase in effective tax rate of 265.6%), an increase in tax credits from Won 50 billion in 2014 to Won 152 billion in 2015 due to an increase in investment tax credit (that resulted in a decrease in effective tax rate of 97.6%), a decrease in tax effects due to permanent differences from Won 70 billion in 2014 to Won (26) billion in 2015 (that resulted in a decrease in effective tax rate of 22.4%), as well as an increase over provision from prior years from Won 0.5 billion in 2014 to 47 billion in 2015 (that resulted in a decrease in effective tax rate of 31.3%). See Note 35 of Notes to Consolidated Financial Statements.

## Profit

Due to the factors described above, we recorded profit of Won 564 billion in 2014 compared to loss of Won 116 billion in 2015.

The following table presents our profit and loss by segment, prior to adjusting for inter-company transactions that are eliminated during consolidation, and changes therein for 2014 and 2015.

	For the Year Ended December 31,		Changes	
	2014	2015	2014 versus 2015	
			Amount	%
	(In billions of Won)			
Steel Segment	₩ 857	₩ 181	₩ (676)	(78.8)%
Trading Segment	181	39	(142)	(78.6)
Construction Segment	13	(276)	(289)	N.A. <sup>(1)</sup>
Others Segment	9	(66)	(74)	N.A. <sup>(1)</sup>
Consolidation adjustments	(503)	25	528	N.A. <sup>(1)</sup>
Basis difference <sup>(2)</sup>	7	(20)	(27)	N.A. <sup>(1)</sup>
Profit (loss) for the period	₩ 564	₩ (116)	(680)	N.A. <sup>(1)</sup>

(1) N.A. means not applicable.

(2) Basis difference is related to the difference in recognizing revenue and expenses of the Construction Segment in connection with development and sale of certain residential real estate between the report reviewed by the chief executive officer and the consolidated financial statements. See Notes 3 and 41 of Notes to Consolidated Financial Statements.

## Operating Results – 2013 Compared to 2014

The following table presents our income statement information and changes therein for 2013 and 2014.

	For the Year Ended December 31,		Changes	
	2013	2014	2013 versus 2014	
			Amount	%
	(In billions of Won)			
Revenue	₩ 61,766	₩ 64,759	₩ 2,993	4.8%
Cost of sales	54,914	57,465	2,552	4.6
Gross profit	6,852	7,293	441	6.4
Administrative expenses	2,232	2,310	78	3.5
Selling expenses	1,632	1,760	128	7.8
Other operating income	229	269	40	17.6
Other operating expenses	651	980	329	50.5
Operating profit	2,566	2,513	(53)	(2.1)
Share of loss of equity-accounted investees	180	300	120	66.8
Finance income	2,381	2,397	16	0.7
Finance costs	2,829	3,222	393	13.9
Profit before income tax	1,938	1,388	(550)	(28.4)
Income tax expense	589	824	235	39.9
Profit	1,349	564	(785)	(58.2)
Profit for the period attributable to owners of the controlling company	1,371	633	(738)	(53.8)
Loss for the period attributable to non-controlling interests	(22)	(69)	(47)	214.1

## Revenue

The following table presents our revenue by segment and changes therein for 2013 and 2014.

	For the Year Ended December 31,		Changes	
	2013	2014	2013 versus 2014	
			Amount	%
	(In billions of Won)			
Steel Segment:				
External revenue .....	₩ 31,795	₩ 31,842	₩ 47	0.1%
Internal revenue .....	16,229	17,755	1,526	9.4
Total revenue from Steel Segment .....	48,024	49,597	1,573	3.3
Trading Segment:				
External revenue .....	18,308	21,166	2,858	15.6
Internal revenue .....	7,611	10,095	2,484	32.6
Total revenue from Trading Segment .....	25,919	31,261	5,342	20.6
Construction Segment:				
External revenue .....	6,897	8,119	1,222	17.7
Internal revenue .....	3,885	2,185	(1,701)	(43.8)
Total revenue from Construction Segment .....	10,782	10,304	(478)	(4.4)
Others Segment:				
External revenue .....	4,865	3,972	(894)	(18.4)
Internal revenue .....	3,019	3,095	75	2.5
Total revenue from Others Segment .....	7,885	7,066	(818)	(10.4)
Total revenue prior to consolidation adjustments and basis difference .....	92,610	98,228	5,618	6.1
Consolidation adjustments .....	(30,745)	(33,129)	(2,384)	7.8
Basis difference <sup>(1)</sup> .....	(99)	(340)	(241)	243.4
Revenue .....	₩ 61,766	₩ 64,759	2,993	4.8

(1) Basis difference is related to the difference in recognizing revenue and expenses of the Construction Segment in connection with development and sale of certain residential real estate between the report reviewed by the chief executive officer and the consolidated financial statements. See Notes 3 and 41 of Notes to Consolidated Financial Statements.

Our revenue increased by 4.8%, or Won 2,993 billion, from Won 61,766 billion in 2013 to Won 64,759 billion in 2014 due to increases in external revenues from the Trading Segment and the Construction Segment, which were offset in part by a decrease in external revenue from the Others Segment. External revenues from the Steel Segment remained relatively unchanged. Specifically:

**Steel Segment.** External revenue from the Steel Segment, which does not include internal revenue from inter-company transactions that are eliminated during consolidation, increased slightly by 0.1%, or Won 47 billion, from Won 31,795 billion in 2013 to Won 31,842 billion in 2014 primarily due to an increase in our sales volume of the steel products produced by us and directly sold to external customers (including miscellaneous steel products not included in any of our major product categories), which was largely offset by a decrease in the average unit sales price per ton of the principal steel products produced by us and directly sold to external customers. The overall sales volume of the steel products produced by us and directly sold to external customers (including miscellaneous steel products) increased by 4.4% from 29.1 million tons in 2013 to 30.4 million tons in 2014, while the weighted average unit sales price per ton of the principal steel products produced by us and directly sold to external customers decreased by 6.2% from Won 998,012 per ton in 2013 to Won 936,405 per ton in 2014. Such factors were principally attributable to the following:

- The sales volume of wire rods, plates and hot rolled produced by us and directly sold to external customers increased by 38.3%, 20.5% and 2.6%, respectively, from 2013 to 2014. On the other hand, our sales volume of silicon steel sheets, stainless steel products

and cold rolled produced by us and directly sold to external customers decreased by 8.5%, 8.1% and 0.3%, respectively, from 2013 to 2014. For a discussion of changes in sales volume of each of our principal product lines, see “Item 4.B. Business Overview — Major Products.”

- The unit sales prices in Won of wire rods, plates, silicon steel sheets and cold rolled products produced by us and directly sold to external customers decreased by 16.4%, 10.6%, 6.2% and 5.2%, respectively, from 2013 to 2014. On the other hand, the unit sales prices in Won of hot rolled products and stainless steel products produced by us and directly sold to external customers increased by 1.5% and 0.1%, respectively, from 2013 to 2014. For a discussion of changes in the unit sales prices of each of our principal product lines, see “— Overview — Sales Volume, Prices and Product Mix” above.

Total revenue from the Steel Segment, which includes internal revenue from inter-company transactions, increased by 3.3%, or Won 1,573 billion, from Won 48,024 billion in 2013 to Won 49,597 billion in 2014, as internal revenue from inter-company transactions increased from 2013 to 2014 due to an increase in reliance on sales subsidiaries for the sale of our steel products.

**Trading Segment.** External revenue from the Trading Segment, which does not include internal revenue from inter-company transactions that are eliminated during consolidation, increased by 15.6%, or Won 2,858 billion, from Won 18,308 billion in 2013 to Won 21,166 billion in 2014 primarily due to an increase in third-country trades by POSCO Daewoo and our other trading subsidiaries.

Total revenue from the Trading Segment, which includes internal revenue from inter-company transactions, increased by 20.6%, or Won 5,342 billion, from Won 25,919 billion in 2013 to Won 31,261 billion in 2014 primarily due to the reasons stated above, which was enhanced by an increase in reliance on sales subsidiaries by us on our steel trading activities.

**Construction Segment.** External revenue from the Construction Segment, which does not include internal revenue from inter-company transactions that are eliminated during consolidation, increased by 17.7%, or Won 1,222 billion, from Won 6,897 billion in 2013 to Won 8,119 billion in 2014 primarily due to an increase in POSCO E&C’s construction activities in architectural works.

Total revenue from the Construction Segment, which includes internal revenue from inter-company transactions, decreased by 4.4%, or Won 478 billion, from Won 10,782 billion in 2013 to Won 10,304 billion in 2014 primarily due to a decrease in internal revenue from inter-company transactions by 43.8%, or Won 1,701 billion, from Won 3,885 billion in 2013 to Won 2,185 billion in 2014 resulting from a decrease in the amount of construction activities for member companies of the POSCO Group. The impact from such decrease was offset in part by an increase in external revenue as discussed above.

**Others Segment.** The Others Segment includes power generation, LNG production, network and system integration, logistics and magnesium coil and sheet production. External revenue from the Others Segment, which does not include internal revenue from inter-company transactions that are eliminated during consolidation, decreased by 18.4%, or Won 894 billion, from Won 4,865 billion in 2013 to Won 3,972 billion in 2014 primarily due to a decrease in revenue of POSCO Energy Corporation reflecting a decrease in demand for fuel cell energy as well as a decrease in revenue of POSCO ICT Co., Ltd. following the completion of some of its major service contracts in 2014.

Total revenue from the Others Segment, which includes internal revenue from inter-company transactions, decreased by 10.4%, or Won 818 billion, from Won 7,885 billion in 2013 to Won 7,066 billion in 2014, primarily due to the reasons stated above.

### **Cost of Sales**

Our cost of sales increased by 4.6%, or Won 2,552 billion, from Won 54,914 billion in 2013 to Won 57,465 billion in 2014. The increase in cost of sales was primarily due to increases in our sales

volume of steel products and trading activities as discussed above, which were partially offset by decreases in the average price in Won terms of key raw materials that were used to manufacture our steel products sold.

The following table presents a breakdown of our cost of sales by segment, prior to adjusting for inter-company transactions that are eliminated during consolidation, and changes therein for 2013 and 2014.

	For the Year Ended December 31,		Changes	
			2013 versus 2014	
	2013	2014	Amount	%
	(In billions of Won)			
Steel Segment	₩ 43,274	₩ 44,587	₩ 1,313	3.0%
Trading Segment	24,816	29,884	5,068	20.4
Construction Segment	9,848	9,554	(294)	(3.0)
Others Segment	7,123	6,366	(757)	(10.6)
Consolidation adjustments	(30,056)	(32,576)	(2,520)	8.4
Basis difference <sup>(1)</sup>	(91)	(350)	(259)	284.6
Cost of sales	₩ 54,914	₩ 57,465	2,552	4.6

(1) Basis difference is related to the difference in recognizing revenue and expenses of the Construction Segment in connection with development and sale of certain residential real estate between the report reviewed by the chief executive officer and the consolidated financial statements. See Notes 3 and 41 of Notes to Consolidated Financial Statements.

**Steel Segment.** The cost of sales of our Steel Segment, prior to consolidation adjustments, increased by 3.0%, or Won 1,313 billion, from Won 43,274 billion in 2013 to Won 44,587 billion in 2014 primarily due to increase in our sales volume of the principal steel products produced by us and directly sold to external customers, the impact of which was partially offset by decreases in the average price in Won terms of key raw materials that were used to manufacture our finished goods sold.

**Trading Segment.** The cost of sales of our Trading Segment, prior to consolidation adjustments, increased by 20.4%, or Won 5,068 billion, from Won 24,816 billion in 2013 to Won 29,884 billion in 2014 primarily due to an increase in our trading volumes as well as an increase in the production costs related to gas produced at the Myanmar gas field and sold to customers. The Myanmar gas field began its commercial production in July 2013.

**Construction Segment.** The cost of sales of our Construction Segment, prior to consolidation adjustments, decreased by 3.0%, or Won 294 billion, from Won 9,848 billion in 2013 to Won 9,554 billion in 2014 primarily due to a decrease in the construction activities of POSCO E&C.

**Others Segment.** The cost of sales of our Others Segment, prior to consolidation adjustments, decreased by 10.6%, or Won 757 billion, from Won 7,123 billion in 2013 to Won 6,366 billion in 2014 primarily due to decreases in the average price in Won terms of key raw materials that were used by POSCO Energy Corporation in its power generation activities, as well as a decrease in costs from completion of POSCO ICT Co., Ltd.'s major service contracts in 2014.

### Gross Profit

Our gross profit increased by 6.4%, or Won 441 billion, from Won 6,852 billion in 2013 to Won 7,293 billion in 2014 primarily due to increases in gross profit of our Trading Segment and Steel Segment, which were partially offset by a decrease in gross profit of our Construction Segment. Our gross margin increased from 11.1% in 2013 to 11.3% in 2014.

The following table presents our gross profit by segment, prior to adjusting for inter-company transactions that are eliminated during consolidation, and changes therein for 2013 and 2014.

	For the Year Ended December 31,		Changes	
			2013 versus 2014	
	2013	2014	Amount	%
	(In billions of Won)			
Steel Segment . . . . .	₩ 4,749	₩ 5,010	₩ 260	5.5%
Trading Segment . . . . .	1,103	1,376	274	24.8
Construction Segment . . . . .	934	750	(184)	(19.7)
Others Segment . . . . .	761	700	(61)	(8.0)
Consolidation adjustments . . . . .	(687)	(553)	134	(19.5)
Basis difference <sup>(1)</sup> . . . . .	(8)	10	18	N.A. <sup>(2)</sup>
Gross profit . . . . .	₩ 6,852	₩ 7,293	441	6.4

(1) Basis difference is related to the difference in recognizing revenue and expenses of the Construction Segment in connection with development and sale of certain residential real estate between the report reviewed by the chief executive officer and the consolidated financial statements. See Notes 3 and 41 of Notes to Consolidated Financial Statements.

(2) N.A. means not applicable.

**Steel Segment.** The gross profit of our Steel Segment, prior to consolidation adjustments, increased by 5.5%, or Won 260 billion, from Won 4,749 billion in 2013 to Won 5,010 billion in 2014 primarily due to an increase in the overall sales volume of our steel products, as discussed above, which was partially offset by a decrease in the average unit sales price per ton of our principal steel products as well as a decrease in the average price in Won terms of coal and other key raw materials that were used to manufacture our finished steel products sold. The gross margin of our Steel Segment, which is gross profit as a percentage of total revenue prior to consolidation adjustments, increased slightly from 9.9% in 2013 to 10.1% in 2014.

**Trading Segment.** The gross profit of our Trading Segment, prior to consolidation adjustments, increased by 24.8%, or Won 274 billion, from Won 1,103 billion in 2013 to Won 1,376 billion in 2014, reflecting an increase in overall trading volumes as well as an increase in the gross profit from our sale of gas produced at the Myanmar gas field. The gross margin of our Trading Segment, prior to consolidation adjustments, increased slightly from 4.3% in 2013 and 4.4% in 2014.

**Construction Segment.** The gross profit of our Construction Segment, prior to consolidation adjustments, decreased by 19.7%, or Won 184 billion, from Won 934 billion in 2013 to Won 750 billion in 2014, and the gross margin decreased from 8.7% in 2013 to 7.3% in 2014 primarily due to a decrease in POSCO E&C's construction activities for POSCO as well as a decrease in its participation of construction projects with higher margins in 2014.

**Others Segment.** The gross profit of our Others Segment, prior to consolidation adjustments, decreased by 8.0%, or Won 61 billion, from Won 761 billion in 2013 to Won 700 billion in 2014 while its gross margin increased from 9.7% in 2013 to 9.9% in 2014, primarily due to the results of POSCO Energy Corporation described above.

## Selling and Administrative Expenses

The following table presents a breakdown of our selling and administrative expenses and changes therein for 2013 and 2014.

	For the Year Ended December 31,		Changes	
	2013	2014	2013 versus 2014	
			Amount	%
	(In billions of Won)			
Freight and custody expenses	₩ 1,433	₩ 1,552	₩ 119	8.3%
Sales commissions	74	66	(8)	(10.2)
Sales promotion	27	26	(1)	(5.0)
Sales insurance premium	27	40	13	46.3
Contract cost	37	50	13	33.7
Others	34	27	(7)	(20.5)
<b>Total selling expenses</b>	<b>₩ 1,632</b>	<b>₩ 1,760</b>	<b>128</b>	<b>7.8</b>
Wages and salaries	₩ 755	₩ 781	₩ 27	3.5%
Expenses related to post-employment benefits	67	67	(1)	(1.1)
Other employee benefits	166	174	8	5.1
Depreciation and amortization	228	273	45	19.6
Rental	110	137	27	24.7
Repairs	6	14	8	143.9
Advertising	106	104	(1)	(1.1)
Research and development	193	175	(18)	(9.1)
Service fees	240	216	(24)	(10.0)
Bad debt allowance	90	109	19	20.9
Others	271	258	(12)	(4.6)
<b>Total administrative expenses</b>	<b>₩ 2,232</b>	<b>₩ 2,310</b>	<b>78</b>	<b>3.5</b>
<b>Total selling and administrative expenses</b>	<b>₩ 3,864</b>	<b>₩ 4,070</b>	<b>206</b>	<b>5.3</b>

Our selling and administrative expenses increased by 5.3%, or Won 206 billion, from Won 3,864 billion in 2013 to Won 4,070 billion in 2014 primarily due to increases in freight and custody expenses and depreciation and amortization expenses, which were partially offset by a decrease in service fees and research and development expenses. Such factors were principally attributable to the following:

- Our freight and custody expense increased by 8.3%, or Won 119 billion, from Won 1,433 billion in 2013 to Won 1,552 billion in 2014 primarily due to increases in freight rates as well as an increase in our export volume.
- Our depreciation and amortization expenses increased by 19.6%, or Won 45 billion, from Won 228 billion in 2013 to Won 273 billion in 2014 primarily due to an increase in amortization of intangible assets related to upgrading of our new information technology infrastructure in 2014.
- Our service fees decreased by 10.0%, or Won 24 billion, from Won 240 billion in 2013 to Won 216 billion in 2014 primarily due to a decrease in professional advisory services provided to us resulting from our reduction in investment activities.
- Our research and development expenses decreased by 9.1%, or Won 18 billion, from Won 193 billion in 2013 to Won 175 billion in 2014 primarily reflecting a decrease in our development activities for new products.

### Other Operating Income and Expenses

The following table presents a breakdown of our other operating income and expenses and changes therein for 2013 and 2014.

	For the Year Ended December 31,		Changes	
			2013 versus 2014	
	2013	2014	Amount	%
			(In billions of Won)	
Gains on disposals of assets held for sale	₩ 102	₩ 48	₩ (53)	(52.5)%
Gains on disposals of investment in associates	8	41	34	438.1
Gains on disposals of property, plant and equipment	14	15	1	6.1
Reversal of other provision expenses	3	20	17	576.1
Outsourcing income	25	14	(11)	(44.2)
Gain on disposals of waste	17	11	(5)	(31.3)
Gain from claim compensation	15	29	15	100.8
Penalty income from early termination of contracts	16	35	18	110.0
Others	30	56	26	87.7
Total other operating income	₩ 229	₩ 269	40	17.6

Our other operating income increased by 17.6%, or Won 40 billion, from Won 229 billion in 2013 to Won 269 billion in 2014 primarily due to increases in gains on disposals of investment in associates, penalty income from early termination of contracts and reversal of other provision expenses, which were offset in part by a decrease in gains on disposal of assets for sale. Our gains on disposals of investment in associates increased more than four-fold, or Won 34 billion, from Won 8 billion in 2013 to Won 41 billion in 2014 primarily due to gains related to POSCO Plantec Co., Ltd. that became our consolidated subsidiary in 2014. Our penalty income from early termination of contracts increased by 110.0%, or Won 18 billion, from Won 16 billion in 2013 to Won 35 billion in 2014 primarily due to an increase in delayed payments to subcontractors as a result of the prolonged downturn in the construction industry. Our reversal of other provision expenses increased more than five-fold, or Won 17 billion, from Won 3 billion in 2013 to Won 20 billion in 2014 primarily due to reversal of provisions of POSCO Daewoo of Won 8 billion in connection with guarantees provided for the acquisition of Shandong Cement and reversal of provisions of POSCO Engineering Co., Ltd. ("POSCO Engineering") of Won 9 billion relating to settled litigation regarding deferred compensation. On the other hand, our gains on disposals of assets held for sale decreased by 52.5%, or Won 53 billion, from Won 102 billion in 2013 to Won 48 billion in 2014. In 2013, we recognized a gain of Won 102 billion on disposal of assets held for sale primarily from our disposition of SK Telecom shares and SeAH Steel shares. In 2014, we recognized a gain of Won 48 billion on disposal of assets held for sale primarily from our disposition of International Business Center Corporation shares.

	For the Year Ended December 31,		Changes	
			2013 versus 2014	
	2013	2014	Amount	%
			(In billions of Won)	
Other bad debt expenses	₩ 111	₩ 96	₩ (15)	(13.2)%
Losses on disposals of assets held for sale	26	0	(26)	(99.9)
Impairment losses on assets held for sale	2	17	15	848.5
Losses on disposals of property, plant and equipment	121	50	(71)	(58.7)
Impairment losses on property, plant and equipment	10	65	55	565.5
Impairment losses on intangible assets	125	55	(70)	(55.9)
Idle tangible assets expenses	18	12	(5)	(30.7)
Impairment losses on other non-current assets	9	38	29	323.7
Other provision expenses	66	127	61	92.1
Donations	61	70	9	14.1
Loss on disposal of investment in associates	19	3	(17)	(86.8)
Loss on disposal of wastes	15	16	1	7.6
Penalty and additional tax payments	19	352	333	1,721.0
Others	48	78	31	64.0
Total other operating expenses	₩ 651	₩ 980	329	50.5

Our other operating expenses increased by 50.5%, or Won 329 billion, from Won 651 billion in 2013 to Won 980 billion in 2014, primarily due to an increase in penalty and additional tax payments and other provisions expenses, which were partially offset by decreases in our losses on disposals of property, plant and equipment and impairment losses on intangible assets. Such factors were principally attributable to the following:

- Our penalty and additional tax payments increased more than seventeen-fold, or Won 333 billion, from Won 19 billion in 2013 to Won 352 billion in 2014 primarily due to additional tax payments of Won 272 billion resulting from Korea National tax Service's periodic audit completed in 2014, which mostly related to value added taxes.
- Our other provision expenses increased by 92.1%, or Won 61 billion, from Won 66 billion in 2013 to Won 127 billion in 2014 primarily due to a provision of Won 89 billion in 2014 related to restoration costs of contaminated land near our magnesium plant in Gangneung, Korea.
- Our losses on disposals of property, plant and equipment decreased by 58.7%, or Won 71 billion, from Won 121 billion in 2013 to Won 50 billion in 2014 primarily due to removal and dismantlement costs related to the restoration work of furnace no. 1 and no. 2 in Gwangyang in 2013 compared to no such loss in 2014.
- Our impairment losses on intangible assets decreased by 55.9%, or Won 70 billion, from Won 125 billion in 2013 to Won 55 billion in 2014 primarily due to impairment loss of Won 97 billion related to the decrease in value of POSCO Thainox Public Company Limited in 2013 compared to no such impairment loss in 2014.

### ***Operating Profit***

Due to the factors described above, our operating profit decreased by 2.1%, or Won 53 billion, from Won 2,566 billion in 2013 to Won 2,513 billion in 2014. Our operating margin decreased from 4.2% in 2013 to 3.9% in 2014.

### ***Share of Loss of Equity-Accounted Investees***

Our share of loss of equity-accounted investees increased by 66.8%, or by Won 120 billion, from Won 180 billion in 2013 to Won 300 billion in 2014. In 2013, we recognized a net loss for our proportionate share of equity-accounted investees of Won 180 billion primarily due to our share of loss of POSCO Plantec Co., Ltd. (Won 49 billion), Roy Hill Holdings Pty Ltd. (Won 38 billion) and CSP-Compania Siderurgica do Pecem (Won 34 billion), which was partially offset by our share of profit of KOBRASCO (Won 22 billion), Korea LNG Ltd. (Won 22 billion) and CAML Resources Pty Ltd. (Won 18 billion). In 2014, we recognized a net loss for our proportionate share of equity-accounted investees of Won 300 billion primarily due to our share of loss of POSCO Plantec Co., Ltd. (Won 211 billion) and CSP-Compania Siderurgica do Pecem (Won 57 billion), which was partially offset by our share of profit of KOBRASCO (Won 30 billion) and South-East Asia Gas Pipeline Company Ltd. (Won 26 billion). For a discussion of our share of profits or losses of equity-accounted investees, see Note 11 of Notes to Consolidated Financial Statements.

## Finance Income and Finance Costs

The following table presents a breakdown of our finance income and costs and changes therein for 2013 and 2014.

	For the Year Ended December 31,		Changes	
	2013	2014	2013 versus 2014	
			Amount	%
	(In billions of Won)			
Interest income	₩ 260	₩ 228	₩ (32)	(12.3)%
Dividend income	59	48	(11)	(19.2)
Gain on foreign currency transactions	998	1,022	25	2.5
Gain on foreign currency translations	511	453	(58)	(11.3)
Gain on derivatives transactions of	370	328	(43)	(11.5)
Gain on valuations of derivatives	72	73	1	1.4
Gain on disposals of available-for-sale financial assets	106	236	131	124.0
Others	4	7	3	72.6
Total finance income	₩ 2,381	₩ 2,397	16	0.7
Interest expenses	₩ 658	₩ 796	₩ 138	21.0%
Loss on foreign currency transactions	927	1,034	106	11.5
Loss on foreign currency translations	345	429	84	24.4
Loss on derivatives transactions	287	353	67	23.3
Loss on valuations of derivatives	291	101	(190)	(65.2)
Impairment loss on available-for-sale financial assets	280	370	89	31.9
Loss on disposals of available-for-sale financial assets	4	55	51	1370.3
Loss on financial guarantee	6	10	4	71.4
Others	31	75	43	137.7
Total finance costs	₩ 2,829	₩ 3,222	393	13.9

Our net gain on foreign currency translations decreased by 85.2%, or Won 141 billion, from Won 166 billion in 2013 to Won 25 billion in 2014, and we recognized a net gain on foreign currency transactions of Won 70 billion in 2013 compared to a net loss on foreign currency transactions of Won 11 billion in 2014, as the Won appreciated against the Dollar in 2013 while it depreciated against the Dollar in 2014 and the Won depreciated at a greater level against the Yen in 2013 compared to 2014. In terms of the market average exchange rates announced by Seoul Money Brokerage Services, Ltd., the Won appreciated from Won 1,071.1 to US\$1.00 as of December 31, 2012 to Won 1,055.3 to US\$1.00 as of December 31, 2013 but depreciated to Won 1,099.2 to US\$1.00 as of December 31, 2014. The Won appreciated against the Yen from Won 1,247.5 per Yen 100 as of December 31, 2012 to Won 1,004.7 per Yen 100 as of December 31, 2013 and appreciated further to Won 920.1 per Yen 100 as of December 31, 2014. Against such fluctuations, we recognized a decrease of 87.2% in net loss on valuations of derivatives, or Won 191 billion, from Won 219 billion in 2013 to Won 28 billion in 2014, as well as a net gain on derivatives transactions of Won 84 billion in 2013 compared to a net loss on derivatives transactions of Won 28 billion in 2014.

Our interest expenses increased by 21.0%, or Won 138 billion, from Won 658 billion in 2013 to Won 796 billion in 2014 primarily due to an increase in the average balance of our interest-bearing payables and financial liabilities, which was partially offset by a general decrease in interest rates in Korea.

Our impairment loss on available-for-sale financial assets increased by 31.9%, or Won 89 billion, from Won 280 billion in 2013 to Won 370 billion in 2014 primarily due to a prolonged decline in the fair value of shares of Hyundai Heavy Industries Co., Ltd. and unmarketable securities of Dongbu Metal Co., Ltd.

Our gain on disposal of available-for-sale financial assets increased by 124.0%, or Won 131 billion, from Won 106 billion in 2013 to Won 236 billion in 2014, as we recognized a Won 199 billion gain in 2014 from our disposal of interest in SK Telecom Co., Ltd.

### **Income Tax Expense**

Our income tax expense increased by 39.9%, or Won 235 billion, from Won 589 billion in 2013 to Won 824 billion in 2014. Our effective tax rate increased from 30.4% in 2013 to 59.4% in 2014 primarily due to an increase in tax related to investments in subsidiaries, associates and joint ventures from Won 251 billion in 2013 to Won 372 billion in 2014 (that resulted in an increase in effective tax rate of 13.8%), a decrease in tax credits from Won 169 billion in 2013 to Won 50 billion in 2014 due to a decrease in job creation tax credit (that resulted in an increase in effective tax rate of 5.2%), an increase in tax effects due to permanent differences from Won 8 billion in 2013 to Won 70 billion in 2014 (that resulted in an increase in effective tax rate of 4.6%), as well as adjustments on prior year tax of Won 56 billion resulting from the tax audit completed in 2014 (that resulted in an increase in effective tax rate of 4.1%). See Note 35 of Notes to Consolidated Financial Statements.

### **Profit**

Due to the factors described above, our profit decreased by 58.2%, or Won 785 billion, from Won 1,349 billion in 2013 to Won 564 billion in 2014. Our net profit margin decreased from 2.2% in 2013 to 0.9% in 2014.

The following table presents our profit by segment, prior to adjusting for inter-company transactions that are eliminated during consolidation, and changes therein for 2013 and 2014.

	For the Year Ended December 31,		Changes	
	2013	2014	2013 versus 2014	
	(In billions of Won)		Amount	%
Steel Segment	₩ 1,449	₩ 857	₩ (592)	(40.9)%
Trading Segment	10	181	172	1,804.6
Construction Segment	147	13	(134)	(91.2)
Others Segment	197	9	(189)	(95.7)
Consolidation adjustments	(448)	(503)	(55)	12.3
Basis difference <sup>(1)</sup>	(6)	7	13	N.A. <sup>(2)</sup>
Profit for the period	₩ 1,349	₩ 564	(785)	(58.2)

(1) Basis difference is related to the difference in recognizing revenue and expenses of the Construction Segment in connection with development and sale of certain residential real estate between the report reviewed by the chief executive officer and the consolidated financial statements. See Notes 3 and 41 of Notes to Consolidated Financial Statements.

(2) N.A. means not applicable.

### **Item 5.B. Liquidity and Capital Resources**

The following table sets forth the summary of our cash flows for the periods indicated.

	For the Year Ended December 31,		
	2013	2014	2015
	(In billions of Won)		
Net cash provided by operating activities	₩ 4,858	₩ 3,412	₩ 7,602
Net cash used in investing activities	(8,752)	(3,745)	(4,535)
Net cash provided by (used in) financing activities	3,532	135	(2,242)
Effect of exchange rate fluctuations on cash held	(111)	12	23
Cash and cash equivalents at beginning of period	4,681	4,209	4,022
Cash and cash equivalents at end of period	4,209	4,022	4,871
Net increase (decrease) in cash and cash equivalents	(472)	(186)	849

## Capital Requirements

Historically, uses of cash consisted principally of purchases of property, plant and equipment and other assets and repayments of outstanding debt and payments of dividends.

Net cash used in investing activities was Won 8,752 billion in 2013, Won 3,745 billion in 2014 and Won 4,535 billion in 2015. These amounts included acquisition of property, plant and equipment of Won 6,570 billion in 2013, Won 3,506 billion in 2014 and Won 2,560 billion in 2015. We plan to spend between Won 2 trillion to Won 3 trillion in capital expenditures in 2016, which we may adjust on an on-going basis subject to market demand for our products, the production outlook of the global steel industry and global economic conditions in general. We may delay or not implement some of our current capital expenditure plans based on our assessment of such market conditions. We had net acquisitions of short-term financial instruments of Won 548 billion in 2013, net disposals of short-term financial instruments of Won 1,539 billion in 2014 and net acquisitions of short-term financial instruments of Won 2,443 billion in 2015. We also had net acquisitions of available-for-sale investments of Won 40 billion in 2013 and net disposals of available-for-sale investments of Won 176 billion in 2014 and Won 220 billion in 2015.

In our financing activities, we used cash of Won 2,846 billion in 2013, Won 2,802 billion in 2014 and Won 3,510 billion in 2015 for repayments of borrowings. We paid dividends on common stock in the amount of Won 649 billion in 2013, Won 677 billion in 2014 and Won 823 billion in 2015.

In recent years, we have also selectively considered various opportunities to acquire or invest in companies that may complement our businesses, as well as invest in overseas resources development projects. We may require additional capital for such acquisitions or entering into other strategic relationships. Other than capital required for such activities, we anticipate that capital expenditures, repayments of outstanding debt and payments of cash dividends will represent the most significant uses of funds for the next several years.

Payments of contractual obligations and commitments will also require considerable resources. In our ordinary course of business, we routinely enter into commercial commitments for various aspects of our operations, as well as issue guarantees for indebtedness of our related parties and others. Contingent liabilities on outstanding guarantees provided by us were Won 9,555 billion as of December 31, 2015. The following table sets forth the amount of long-term debt, capital lease and operating lease obligations as of December 31, 2015.

	Payments Due by Period				
	Total	Less than 1 Year	1 to 3 Years	4 to 5 Years	More than 5 Years
	(In billions of Won)				
Long-term debt obligations <sup>(a)</sup>	₩ 17,048	₩ 3,885	₩ 4,838	₩ 3,334	₩ 4,991
Interest payments on long-term debt <sup>(b)</sup>	2,495	477	1,067	561	390
Capital lease obligations	55	20	16	16	3
Operating lease obligations	49	17	16	15	1
Purchase obligations <sup>(c)</sup>	16,415	5,826	5,060	3,454	2,075
Accrued severance benefits <sup>(d)</sup>	2,303	46	232	250	1,775
<b>Total</b>	<b>₩ 38,365</b>	<b>₩ 10,271</b>	<b>₩ 11,229</b>	<b>₩ 7,630</b>	<b>₩ 9,235</b>

(a) Includes the current portion and premium on bond redemption but excludes amortization of discount on debentures and issuance costs.

(b) As of December 31, 2015, a portion of our long-term debt carried variable interest rates. We used the interest rate in effect as of December 31, 2015 in calculating the interest payments on long-term debt for the periods indicated.

(c) Our purchase obligations include supply contracts to purchase iron ore, coal, nickel, LNG and other raw materials. These contracts generally have terms of one to ten years and the long-term contracts provide for periodic price adjustments according to the market prices. As of December 31, 2015, 166 million tons of iron ore and 26 million tons of coal remained to be purchased under long-term contracts. In addition, we entered into an agreement with Tangguh LNG Consortium in Indonesia to purchase 550 thousand tons of LNG for 20 years commencing in August 2005. The purchase price under the

agreement with Tangguh LNG Consortium is variable based on the monthly standard oil price (as represented by the Japan Customs cleared Crude Price), subject to a ceiling. We used the market price and exchange rate in effect as of December 31, 2015 in calculating the iron ore, coal and LNG purchase obligations described above for the periods indicated.

- (d) Represents, as of December 31, 2015, the expected amount of severance benefits that we will be required to pay under applicable Korean law to all of our employees when they reach their normal retirement age. The amounts were determined based on the employees' current salary rates and the number of service years that will be accumulated upon their retirement. These amounts do not include amounts that may be paid to employees who cease to work at the company before their normal retirement age.

## Capital Resources

We have traditionally met our working capital and other capital requirements principally from cash provided by operations, while raising the remainder of our requirements primarily through long-term debt and short-term borrowings. We expect that these sources will continue to be our principal sources of cash in the future. From time to time, we may also generate cash through issuance of hybrid bonds and sale of treasury shares and our holdings in available-for-sale securities.

Our net cash provided by operating activities decreased by 29.8%, or Won 1,446 billion, from Won 4,858 billion in 2013 to Won 3,412 billion in 2014. Our gross cash flow from our sales activities increased as discussed above. However, our cash outflows increased due to the buildup of semi-finished and finished goods resulting from continuing uncertainties in the global economy affecting China and other major emerging market economies.

Our net cash provided by operating activities increased by 122.8%, or Won 4,190 billion, from Won 3,412 billion in 2014 to Won 7,602 billion in 2015. Our gross cash flow from our sales activities decreased as discussed above. However, we managed our inventory level in 2015 in response to the continuing uncertainties in the global economy and overcapacity in the global steel industry. The inventory turnover was faster in 2015 compared to 2014 as we maintained a lower level of inventory level. Our outstanding trade accounts and notes receivable also decreased in 2015, as we shortened payment terms for some of our key customers, which in turn positively impacted our net cash provided by operating activities.

Net proceeds from borrowings, after deducting for repayment of borrowings, were Won 2,253 billion in 2013. We had net repayments of borrowings of Won 280 billion in 2014 and Won 1,731 billion in 2015. Net proceeds from short-term borrowings, after deducting for repayments of short-term borrowings, were Won 87 billion in 2013 and Won 1,038 billion in 2014. We had net repayment of short-term borrowings, after deducting for repayment of short-term borrowings, of Won 846 billion in 2015. We also raised Won 1,495 billion from our issuances of hybrid bonds in 2013, which are accounted for as part of our equity. Long-term borrowings, excluding current portion, were Won 15,533 billion as of December 31, 2013, Won 15,233 billion as of December 31, 2014 and Won 12,849 billion as of December 31, 2015. Total short-term borrowings and current portion of long-term borrowings were Won 10,714 billion as of December 31, 2013, Won 12,195 billion as of December 31, 2014 and Won 12,371 billion as of December 31, 2015. Outstanding hybrid bonds were Won 997 billion as of December 31, 2013, 2014 and 2015. Our net borrowings-to-equity ratio, which is calculated by deducting cash and cash equivalents from total borrowings and dividing the net amount with our total equity, was 52.18% as of December 31, 2014 and 45.21% as of December 31, 2015.

We periodically increase our short-term borrowings and adjust our long-term debt financing levels depending on changes in our capital requirements. We also generated cash of Won 14 billion in 2013 and Won 43 billion in 2014 from the sale of our treasury shares. We believe that we have sufficient working capital for our current requirements and that we have a variety of alternatives available to us to satisfy our liquidity requirements to the extent that they are not met by funds generated by operations, including the issuance of debt and equity securities and bank borrowings denominated in Won and various foreign currencies. However, our ability to rely on some of these

alternatives could be affected by factors such as the liquidity of the Korean and the global financial markets, prevailing interest rates, our credit rating and the Government's policies regarding Won currency and foreign currency borrowings.

## Liquidity

We had working capital (current assets minus current liabilities) of Won 11,681 billion as of December 31, 2013, Won 10,833 billion as of December 31, 2014 and Won 9,148 billion as of December 31, 2015. Our holdings of cash and cash equivalents (which do not include cash and cash equivalents categorized under "assets for sale") were Won 4,209 billion as of December 31, 2013, Won 3,811 billion as of December 31, 2014 and Won 4,870 billion as of December 31, 2015. See Notes 5 and 10 of Notes to Consolidated Financial Statements. Our holding of other receivables and other short-term financial assets were Won 4,861 billion as of December 31, 2013, Won 3,419 billion as of December 31, 2014 and Won 5,590 billion as of December 31, 2015. As of December 31, 2015, approximately 25% of our cash and cash equivalents, other receivables and other short-term financial assets were held outside of Korea, which we expect to use in our operations abroad, including capital expenditure activities. In the event that such assets are needed for our operations in Korea, such amounts are typically not restricted under local laws from being used in Korea. In addition, we believe that there are no material tax implications in the event our foreign subsidiaries elect to grant cash dividends to us. POSCO had total available credit lines of Won 2,215 billion as of December 31, 2015, none of which was used as of such date. We have not had, and do not believe that we will have, difficulty gaining access to short-term financing sufficient to meet our current requirements.

Our liquidity is affected by exchange rate fluctuations. See "— Overview — Exchange Rate Fluctuations."

## Capital Expenditures and Capacity Expansion

Cash used for acquisitions of property, plant and equipment was Won 6,570 billion in 2013, Won 3,506 billion in 2014 and Won 2,560 billion in 2015. We plan to spend between Won 2 trillion to Won 3 trillion in capital expenditures in 2016, which we may adjust on an on-going basis subject to market demand for our products, the production outlook of the global steel industry and global economic conditions in general. We may delay or not implement some of our current capital expenditure plans based on our assessment of such market conditions.

Our current plan for capital investment in production facilities emphasizes capacity rationalization, increased production of higher value-added products and improvements in the efficiency of older facilities in order to reduce operating costs. The following table sets out the major items of our capital expenditures as of December 31, 2015:

Project	Expected Completion Date	Total Cost of Project	Estimated Remaining Cost of Completion as of December 31, 2015
(In billions of Won)			
<b>Steel Segment:</b>			
Miscellaneous capital expenditures, including rationalization and upgrading of raw materials treatment and transportation facilities . . . . .	December 2018	2,199	1,001
Rationalization of furnace no. 3 at Pohang Works . . . . .	December 2017	532	475
Rationalization of furnace no. 5 at Gwangyang Works . . . . .	December 2016	509	289
Rationalization of furnace no. 2 at Pohang Works . . . . .	April 2016	394	6
Construction of no. 7 CGL at Gwangyang Works . . . . .	June 2017	255	203

### **Item 5.C. *Research and Development, Patents and Licenses, Etc.***

We maintain a research and development program to carry out basic research and applied technology development activities. As of December 31, 2015, POSCO Technical Research Laboratories employed 1,041 personnel, including 532 researchers. Our technology development department also works closely with the Pohang University of Science & Technology, Korea's first research-oriented college founded by us in 1986, and the Research Institute of Industrial Science and Technology, Korea's first private comprehensive research institute founded by us in 1987. We also established POSCO Research Institute (POSRI) in 1994, which engages in research activities and consulting services.

We recorded research and development expenses of Won 370 billion as cost of sales in 2013, Won 353 billion in 2014 and Won 356 billion in 2015, as well as research and development expenses of Won 193 billion as selling and administrative expenses in 2013, Won 175 billion in 2014 and Won 136 billion in 2015.

Our research and development program has filed over 39,000 industrial rights applications relating to steel-making technology, approximately one-third of which were registered as of December 31, 2015, and has successfully applied many of these to the improvement of our manufacturing process.

### **Item 5.D. *Trend Information***

These matters are discussed under Item 5.A. and Item 5.B. above where relevant.

### **Item 5.E. *Off-balance Sheet Arrangements***

As of December 31, 2014 and 2015, we did not have any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes.

### **Item 5.F. *Tabular Disclosure of Contractual Obligations***

These matters are discussed under Item 5.B. above where relevant.

### **Item 5.G. *Safe Harbor***

See "Item 3. Key Information — Item 3.D. Risk Factors — This annual report contains "forward-looking statements" that are subject to various risks and uncertainties.

## **Item 6. *Directors, Senior Management and Employees***

### **Item 6.A. *Directors and Senior Management***

#### **Board of Directors**

Our board of directors has the ultimate responsibility for the management of our business affairs. Our board consists of five directors who are our executive officers ("Inside Directors") and seven directors who are outside directors ("Outside Directors"). Our shareholders elect both the Inside Directors and Outside Directors at a general meeting of shareholders. Candidates for Inside Directors are recommended to shareholders by the board of directors after the board reviews such candidates' qualifications, and candidates for Outside Directors are recommended to the shareholders by a separate board committee consisting of three Outside Directors and one Inside Director ("Director Candidate Recommendation Committee") after the committee reviews such candidates' qualifications. Any shareholder holding our outstanding shares with voting rights may suggest candidates for Outside Directors to the Director Candidate Recommendation Committee.

Our board of directors maintains the following six sub-committees:

- the Director Candidate Recommendation Committee;
- the Evaluation and Compensation Committee;
- the Finance and Operation Committee;
- the Executive Management Committee;
- the Audit Committee; and
- the Related Party Transactions Committee.

Our board committees are described in greater detail below under “— Item 6.C. Board Practices.”

Under the Commercial Code and our articles of incorporation, one Chairman should be elected among the Outside Directors and several Representative Directors may be elected among the Inside Directors by our board of directors’ resolution.

### **Inside Directors**

Our current Inside Directors are:

<b>Name</b>	<b>Position</b>	<b>Responsibilities and Division</b>	<b>Years as Director</b>	<b>Years with POSCO</b>	<b>Age</b>	<b>Expiration of Term of Office</b>
Kwon, Oh-Joon	Chief Executive Officer and Representative Director	—	2	27	65	March 2017
Kim, Jin-Il	President and Representative Director	Head of Steel Production Division	4	39	63	March 2017
Lee, Young-Hoon	Senior Executive Vice President	—	2	29	56	March 2017
Oh, In-Hwan	Senior Executive Vice President	Head of Steel Business Division	1	33	57	March 2017
Choi, Jeong-Woo	Senior Executive Vice President	Head of Corporate Strategy & Finance Center	0	30	59	March 2017

All Inside Directors are engaged in our business on a full-time basis.

### **Outside Directors**

Our current Outside Directors are set out in the table below. Each of our Outside Directors meets the applicable independence standards set forth under the rules of the Financial Investment Services and Capital Markets of Korea (the “FSCMA”).

<b>Name</b>	<b>Position</b>	<b>Principal Occupation</b>	<b>Years as Director</b>	<b>Age</b>	<b>Expiration of Term of Office</b>
Lee, Myoung-Woo	Chairman	President, Dongwon Industries	3	62	March 2019
Shin, Chae-Chol	Director	Former Chairman and CEO, IBM Korea Inc.	3	68	March 2018
Kim, Il-Sup	Director	President, Seoul School of Integrated Sciences & Technologies	2	69	March 2017
Sunwoo, Young	Director	Representative Lawyer, Rhi & Partners	2	60	March 2017
Ahn, Dong-Hyun	Director	Professor, Seoul National University	2	52	March 2017
Bahk, Byong-Won	Director	Chairman, Korea Employers Federation	1	63	March 2018
Kim, Joo-Hyun	Director	Advisory, Hyundai Research Institute	1	63	March 2018

The term of office of the Directors elected in March 2016 is up to three (3) years. Each Director's term expires at the close of the ordinary general meeting of shareholders convened in respect of the fiscal year that is the last one to end during such Director's tenure.

## Senior Management

In addition to the Inside Directors who are also our executive officers, we have the following executive officers:

<u>Name</u>	<u>Position</u>	<u>Responsibility and Division</u>	<u>Years with POSCO</u>	<u>Age</u>
Hwang, Eun-Yeon . . . . .	President	Head of Management Support Division	28	57
An, Tong-II . . . . .	Senior Executive Vice President	General Superintendent, Gwangyang Works	29	56
Kim, Hag-Dong . . . . .	Senior Executive Vice President	General Superintendent, Pohang Works	29	56
Chang, In-Hwa . . . . .	Senior Executive Vice President	Head of Technology and Investment Division, Head of Technical Research Laboratories	5	60
Lee, Woo-Kyu . . . . .	Executive Vice President	Head of Corporate Audit Dept.	26	58
Yim, Chang-Hee . . . . .	Executive Vice President	—	30	59
Yu, Seong . . . . .	Executive Vice President	Head of Energy Storage Materials Business Dept.	30	59
Min, Kyung-Zoon . . . . .	Executive Vice President	President, PT Krakatau POSCO Co., Ltd.	32	57
Jeong, Tak . . . . .	Executive Vice President	Head of Energy and Shipbuilding Materials Marketing Dept.	4	56
Yang, Heung-Yul . . . . .	Executive Vice President	Head of Labor and Outside Services Dept.	26	55
Chung, Chang-Hwa . . . . .	Executive Vice President	Head of Public Relations Dept.	20	54
Son, Chang Hwan . . . . .	Executive Vice President	Head of Steel Business Strategy Dept.	31	55
Chon, Jung-Son . . . . .	Executive Vice President	Head of Corporate Strategy Dept.	29	53
Kim, Hak-Yong . . . . .	Executive Vice President	Head of Plant, Equipment and Materials Procurement Dept.	27	54
Kim, Jun-Hyung . . . . .	Executive Vice President	Head of New Business Dept.	30	53
Lee, Duk-Lak . . . . .	Executive Vice President	Head of Steel Solution Marketing Dept.	30	55
Kwak Jeong-Shik . . . . .	Executive Vice President	Head of External Relation Dept.	28	58
Choi, Jong-Jin . . . . .	Senior Vice President	Deputy General Superintendent (Administration, Pohang Works)	26	52
Jeong, Ki-Seop . . . . .	Senior Vice President	Head of Domestic Business Management Dept.	1	54
Yi, Kyung-Jo . . . . .	Senior Vice President	Head of Steel Planning Dept.	30	55
Kim, Byung-Hwi . . . . .	Senior Vice President	Head of Human Resources Management Dept.	25	52
Cho, Il-Hyun . . . . .	Senior Vice President	Deputy General Superintendent (Safety and Maintenance, Pohang Works)	29	54
Park, Young-Kwan . . . . .	Senior Vice President	Deputy General Superintendent (Iron and Steel Making, Gwangyang Works)	30	57
Nam,Soo-hi . . . . .	Senior Vice President	Deputy General Superintendent (Iron and Steel Making, Pohang Works)	28	56
Lee, Won-Hwi . . . . .	Senior Vice President	Head of Automotive Materials Marketing Dept.	26	52
Noh, Min-Yong . . . . .	Senior Vice President	Head of Finance Dept.	26	52
Kim, Dong-Ho . . . . .	Senior Vice President	President, CSP-Compania Siderurgica do Pecem	31	56
Yun, Han-Kuen . . . . .	Senior Vice President	Deputy General Superintendent (Hot and Cold Rolling, Pohang Works)	33	57

<b>Name</b>	<b>Position</b>	<b>Responsibility and Division</b>	<b>Years with POSCO</b>	<b>Age</b>
Choi, Joo . . . . .	Senior Vice President	General Manager of Gwangyang Research Lab	32	57
Kwon, Woo-Taeck . . . . .	Senior Vice President	Head of Investment Planning & Engineering Dept.	30	56
Yoo, Byeong-Og . . . . .	Senior Vice President	Head of Raw Materials Dept.	27	53
Yang, Weon-Jun . . . . .	Senior Vice President	Head of Human Resources and Innovation Dept.	27	50
Lee, Eun-Seok . . . . .	Senior Vice President	Deputy General Superintendent (Stainless Steel Production, Pohang Works)	30	55
Kim, Soon-Ki . . . . .	Senior Vice President	Deputy General Superintendent (Administration, Gwangyang Works)	25	51
Park, Mi-Hwa . . . . .	Senior Vice President	Head of Information Planning Dept.	1	49
Lee, Si-Woo . . . . .	Senior Vice President	Deputy General Superintendent (Hot and Cold Rolling, Gwangyang Works)	30	55
Kwon, Jong-Won . . . . .	Senior Vice President	General Manager of Europe Office	21	54
Kim, Kwang-Soo . . . . .	Senior Vice President	Head of Stainless Steel Marketing Dept.	31	56
Kim, Gwang-Soo . . . . .	Senior Vice President	Head of Global Marketing Coordination Dept.	29	54
Min, Jung-Ki . . . . .	Senior Vice President	Head of Production Division, PT Krakatau POSCO Co., Ltd.	29	56
Ha, Dae-Ryong . . . . .	Senior Vice President	Head of Electrical and Electronic Materials Marketing Dept.	27	52
Park, Hyeon . . . . .	Senior Vice President	Head of Environment, Energy and Social Responsibility Dept.	15	49
Lim Seung-Kyu . . . . .	Senior Vice President	Head of Overseas Business Management Dept.	27	52
Choo, Se-Don . . . . .	Senior Vice President	General Manager of Pohang Research Lab	22	54
Lee, Sang-Hyeon . . . . .	Senior Vice President	Center Manager of Engineering Solution Dept.	12	55
Kim, Bok-Tae . . . . .	Senior Vice President	Head of Safety and Production Strategy Dept.	28	54
Chun, Sung-Lae . . . . .	Senior Vice President	Head of Hot Rolled and Construction Steel Materials Marketing Dept.	27	52
Kim Min-Chul . . . . .	Senior Vice President	Deputy General Superintendent (Safety and Maintenance, Gwangyang Works)	30	53
Kim, Jeong-Su . . . . .	Senior Vice President	Head of Wire Rod Marketing Dept.	20	52
Lee, Hoo-Geun . . . . .	Executive Vice President	Technology and Investment Division	33	58
Kim, Jeong-Sik . . . . .	Executive Vice President	Steel Production Division	33	59
Lee, Jong-Sub . . . . .	Executive Vice President	Steel Business Division	32	59
Cho, Won-Kyu . . . . .	Executive Vice President	Management Support Division	0	59
Shin, Geon . . . . .	Senior Vice President	Steel Business Division	34	58
Park, Yong-Kyu . . . . .	Senior Vice President	Steel Production Division	31	56
Lee, Young-Woo . . . . .	Senior Vice President	Steel Business Division	27	55
Lee, Chang-Sun . . . . .	Senior Vice President	Technical Research Laboratories	28	58
Kim, Gyo-Sung . . . . .	Senior Vice President	Steel Business Division	31	54
Yi, Sang-Ho . . . . .	Senior Vice President	Steel Production Division	31	55
Kang, Seog-Beom . . . . .	Senior Vice President	Steel Business Division	30	55
Hong, Moon-Hi . . . . .	Senior Vice President	Steel Production Division	29	50
Han Chan-Hee . . . . .	Senior Vice President	Technical Research Laboratories	30	57
Won, Hyung-II . . . . .	Senior Vice President	Legal Affairs Dept.	4	47
Kim, Sun-Koo . . . . .	Senior Vice President	Technical Research Laboratories	25	56

Name	Position	Responsibility and Division	Years with POSCO	Age
Chon, Uong . . . . .	Senior Vice President	Technology and Investment Division	1	52
Lee, Ki-Ho . . . . .	Senior Vice President	Steel Production Division	32	56
Kim, Jong-Sang . . . . .	Senior Vice President	Technical Research Laboratories	21	55
Chun, Myung-Sik . . . . .	Senior Vice President	Technical Research Laboratories	12	56

**Item 6.B. Compensation**

**Compensation of Directors and Officers**

Salaries and bonuses for Inside Directors and salaries for Outside Directors are paid in accordance with standards decided by the board of directors within the limitation of directors remuneration approved by the annual general meeting of shareholders. In addition, executive officers' compensation is paid in accordance with standards decided by the board of directors. In 2015, the aggregate compensation paid and accrued to all Directors and executive officers was approximately Won 39.7 billion and the aggregate amount set aside or accrued by us to provide pension and retirement benefits to such persons was Won 10.2 billion.

The compensation of our directors and executive officers who received total annual compensation exceeding Won 500 million in 2015 were as follows:

Name	Position	Total Compensation in 2015	Long-term Incentive Compensation for Payment Subsequent to 2015 (In millions of Won)
Kwon, Oh-Joon . . . . .	Chief Executive Officer and Representative Director	₩1,207	—
Kim, Jin-Il . . . . .	President and Representative Director	₩ 808	—
Lee, Young-Hoon . . . . .	Senior Executive Vice President	₩ 657	—
Oh, In-Hwan . . . . .	Senior Executive Vice President	₩ 577	—

We have also granted stock options to some of our Directors and executive officers. See “— Item 6.E. Share Ownership” for a list of stock options granted to our Directors and executive officers. At the annual shareholders' meeting held in February 2006 our shareholders elected to terminate the stock option program. Stock options granted prior to this meeting remain valid and outstanding pursuant to the articles of incorporation in effect at the time of the issuance of the stock option.

**Item 6.C. Board Practices**

**Director Candidate Recommendation Committee**

The Director Candidate Recommendation Committee is composed of three Outside Directors, Shin, Chae-Chol (committee chair), Lee, Myoung-Woo, Kim, Joo-Hyun and one Inside Director, Choi, Jeong-Woo. The Director Candidate Recommendation Committee reviews the qualifications of potential candidates and proposes nominees to serve on our board of directors as an Outside Director. Any shareholder holding our outstanding shares with voting rights may suggest candidates for Outside Directors to the Director Candidate Recommendation Committee.

## **Evaluation and Compensation Committee**

The Evaluation and Compensation Committee is composed of four Outside Directors, Sunwoo, Young (committee chair), Kim, Il-Sup, Ahn, Dong-Hyun and Bahk, Byong-Won. The Evaluation and Compensation Committee's primary responsibilities include establishing evaluation procedures and compensation plans for executive officers and taking necessary measures to execute such plans.

## **Finance and Operation Committee**

The Finance and Operation Committee is composed of three Outside Directors, Ahn, Dong-Hyun (committee chair), Shin, Chae-Chol, Bahk, Byong-Won and two Inside Directors, Kim, Jin-Il and Oh, In-Hwan. This committee is an operational committee that oversees decisions with respect to finance and operational matters, including making assessments with respect to potential capital investments and evaluating prospective capital-raising activities.

## **Executive Management Committee**

The Executive Management Committee is composed of five Inside Directors, Kwon, Oh-Joon (committee chair), Kim, Jin-Il, Lee, Young-Hoon, Oh, In-Hwan and Choi, Jeong-Woo. This committee oversees decisions with respect to our operational and management matters, including review of management's proposals of new strategic initiatives, as well as deliberation over critical internal matters related to organization structure and development of personnel.

## **Audit Committee**

Under Korean law and our articles of incorporation, we are required to have an Audit Committee. The Audit Committee may be composed of three or more directors; all members of the Audit Committee must be Outside Directors. Audit Committee members must also meet the applicable independence criteria set forth under the rules and regulations of the Sarbanes-Oxley Act of 2002. Members of the Audit Committee are elected by the shareholders at the ordinary general meeting of shareholders. We currently have an Audit Committee composed of three Outside Directors. Members of our Audit Committee are Kim, Il-Sup (committee chair), Kim, Joo-Hyun and Sunwoo, Young.

The duties of the Audit Committee include:

- engaging independent auditors;
- approving independent audit fees;
- approving audit and non-audit services;
- reviewing annual financial statements;
- reviewing audit results and reports, including management comments and recommendations;
- reviewing our system of controls and policies, including those covering conflicts of interest and business ethics; and
- examining improprieties or suspected improprieties.

In addition, in connection with general meetings of stockholders, the committee examines the agenda for, and financial statements and other reports to be submitted by, the board of directors at each general meeting of stockholders. Our internal and external auditors report directly to the Audit Committee. The committee holds regular meetings at least once each quarter, and more frequently as needed.

## **Related Party Transactions Committee**

The Related Party Transaction Committee is composed of three Outside Directors, Kim, Il-Sup (committee chair), Kim, Joo-Hyun and Sunwoo, Young. This committee reviews related party and other internal transactions and ensures compliance with the Monopoly Regulation and Fair Trade Act.

### **Item 6.D. Employees**

As of December 31, 2015, we had 34,327 employees, including 17,282 persons employed by our subsidiaries, almost all of whom were employed within Korea. Of the total number of employees, approximately 80% are technicians and skilled laborers and 20% are administrative staff. We use subcontractors for maintenance, cleaning and transport activities. We had 37,225 employees, including 19,538 persons employed by our subsidiaries, as of December 31, 2014, and 37,809 employees, including 19,906 persons employed by our subsidiaries, as of December 31, 2013. To improve operational efficiency and increase labor productivity, we plan to reduce the number of our employees in future years through natural attrition. However, we expect the number of persons employed by our subsidiaries in growth industries to increase in the future.

We consider our relations with our work force to be good. We have never experienced a work stoppage or strike. Wages of our employees are among the highest of manufacturing companies in Korea. In addition to a base monthly wage, employees receive periodic bonuses and allowances. Base wages are determined annually following consultation between the management and employee representatives, who are currently elected outside the framework of the POSCO labor union. A labor union was formed by our employees in June 1988. Union membership peaked at 19,026 employees at the beginning of 1991, but has steadily declined since then. As of December 31, 2015, only 10 of our employees were members of the POSCO labor union.

In accordance with the National Pension Act of Korea, we contribute an amount equal to 4.5% of an employee's standard monthly wages, and each employee contributes 4.5% of his or her standard monthly wages, into his or her personal pension account. Our employees, including executive officers as well as non-executive employees, are subject to a pension insurance system, under which we make monthly contributions to the pension accounts of the employees, and upon retirement, such employees are paid from their pension accounts. Prior to 2011, our executive and non-executive employees were subject to a lump-sum severance payment system, under which they were entitled to receive a lump-sum severance payment upon termination of their employment, based on their length of service and salary level at the time of termination. Starting in 2011, in accordance with the Korean Employee Retirement Income Security Act, we replaced such lump-sum severance payment system with our current pension insurance system in the form of either a defined benefit plan or a defined contribution plan. Our employees have the option of choosing either the defined benefit plan or the defined contribution plan. See Note 21 of Notes to Consolidated Financial Statements. Lump-sum severance amounts previously accrued prior to our adoption of the current pension insurance system continue to remain payable. We also provide a wide range of fringe benefits to our employees, including housing, housing loans, company-provided hospitals and schools, a company-sponsored pension program, an employee welfare fund, industrial disaster insurance, and cultural and athletic facilities.

As of December 31, 2015, our employees owned, through our employee stock ownership association, approximately 0.001% of our common stock in their association accounts and 1.76% of our common stock in their employee accounts.

## Item 6.E. Share Ownership

### Common Stock

The persons who are currently our Directors or executive officers held, as a group, 19,672 common shares as of March 30, 2016, the most recent practicable date for which this information is available. The table below shows the ownership of our common shares by our Directors and executive officers.

Kwon, Oh-Joon	1,692
Lee, Hoo-Geun	701
Park, Yong-Gyu	662
Kim, Hak-Yong	577
Noh, Min-Yong	572
Lee, Ki-Ho	541
Yim, Chang-Hee	533
Kim, Jeong-Sik	520
Min, Kyung-Zoon	494
Kwon, Woo-Taeck	469
Kim, Hag-Dong	411
Lee, Chang-Sun	392
Kim, Sun-Koo	384
Kim, Kwang Soo	370
Lee, Woo Kyu	360
Kim, Jin-Il	359
Han, Chan-Hee	356
Yi, Sang-Ho	352
Shin, Chae-Chol	350
Kim, Dong-Ho	347
Lee, Eun-Seok	347
Yu, Seong	337
Kim, Soon-Ki	326
Kim, Min-Chul	314
An, Tong-Il	296
Yang, Weon-Jun	293
Park, Young-Kwan	292
Yoo, Byeong-Og	291
Choi, Joo	290
Kang, Seog-Beom	290
Cho, Il-Hyun	281
Lee, Young-Woo	274
Lee, Jong-Seob	261
Chun, Myung-Sik	242
Kwak, Jeong-Shik	241
Kim, Gyo-Sung	230
Lee, Young-Hoon	223
Chon, Jung-Son	220
Park, Hyeon	219
Nam, Soo-Hi	216
Hwang, Eun-Yeon	204
Kim, Il-Sup	200
Oh, In-Hwan	199
Choi, Jeong-Woo	198
Yi, Kyung-Jo	192
Yang, Heung-Yul	173
Son, Chang-Hwan	173
Shin, Geon	170
Kim, Jun-Hyung	165
Lim, Seung-Kyu	164
Choi, Jong-Jin	163
Chang, In-Hwa	160
Chung, Chang-Hwa	158
Kim, Byung Hwi	151

Choo, Se-Don	142
Chun, Sung-Lae	127
Kim, Jong Sang	118
Hong, Moon-Hi	115
Jeong, Tak	109
Lee, Won-Hwi	99
Min, Jung Ki	99
Yun, Han-Kuen	62
Kim, Gwang-Soo	53
Lee, Sang-Hyeon	47
Lee, Duk-Lak	44
Kwon, Jong-Won	41
Ha, Dae-Ryong	40
Lee, Si-Woo	39
Kim, Boktae	34
Kim, Jeong-Su	31
Park, Mi Hwa	26
Won, Hyung Il	26
Chon, Uong	17
Cho, Won Kyu	8
Jeong, Ki Seop	—
Lee, Myoung-Woo	—
Sun, Woo-Young	—
Ahn, Dong-Hyun	—
Bahk, Byong-Won	—
Kim, Joo-Hyun	—
Total	<u>19,672</u>

## Stock Options

With respect to the options granted, we may elect either to issue shares of common stock, distribute treasury stock or to pay in cash the difference between the exercise and the market price at the date of exercise. The options may be exercised by a person who has continued employment with POSCO for two or more years from the date on which the options are granted. Expiration date of options is seven years from the date on which the options are granted. All of the stock options below relate to our common stock.

At the annual shareholders' meeting held in February 2006, our shareholders elected to terminate the stock option program. Stock options granted prior to this meeting remain valid and outstanding pursuant to the articles of incorporation in effect at the time of the issuance of the stock option. Currently, there are no outstanding exercisable stock options. The following table sets forth information regarding the stock options we have granted to our current Directors and executive officers.

Director	Grant Date	Exercise Period		Exercise Price	Granted Options	Exercised Options	Exercisable Options
		From	To				
Kwon, Oh-Joon	April 26, 2003	4/27/2005	4/26/2010	102,900	9,604	9,604	0
Kim, Jin-Il	April 25, 2003	4/27/2005	4/26/2010	102,900	9,604	9,604	0

## Item 7. Major Shareholders and Related Party Transactions

### Item 7.A. Major Shareholders

The following table sets forth certain information relating to the shareholders of our common stock issued as of December 31, 2015.

<u>Shareholders</u>	<u>Number of Shares Owned</u>	<u>Percentage</u>
National Pension Service .....	7,885,065	9.04%
Nippon Steel & Sumitomo Metal Corporation <sup>(1)</sup> .....	4,394,712	5.04
Pohang University of Science and Technology .....	1,905,000	2.18
Government of Singapore Investment Corporation Pte. Ltd .....	1,862,625	2.14
KB Financial Group Inc. and subsidiaries .....	1,828,207	2.10
Directors and executive officers as a group .....	21,891	0.03
Public <sup>(2)</sup> .....	62,098,148	71.22
POSCO (held in the form of treasury stock) .....	7,191,187	8.25
<b>Total issued shares of common stock .....</b>	<b>87,186,835</b>	<b>100.00%</b>

(1) Held in the form of ADRs.

(2) Includes ADRs.

As of December 31, 2015, there were 12,495,565 shares of common stock outstanding in the form of ADRs, representing 14.33% of the total issued shares of common stock.

### Item 7.B. Related Party Transactions

We have issued guarantees of Won 6,362 billion as of December 31, 2013, Won 6,691 billion as of December 31, 2014 and Won 6,855 billion as of December 31, 2015, in favor of affiliated and related companies. We have also engaged in various transactions with our subsidiaries and affiliated companies. See Notes 37 and 38 of Notes to Consolidated Financial Statements.

As of December 31, 2013, 2014 and 2015, we had no loans outstanding to our executive officers and Directors.

### Item 7.C. Interests of Experts and Counsel

Not applicable

## Item 8. Financial Information

### Item 8.A. Consolidated Statements and Other Financial Information

See "Item 18. Financial Statements" and pages F-1 through F-117.

## Legal Proceedings

In recent years, we have become subject to a number of anti-dumping duties in the United States, Canada, the European Union, Brazil, India, Indonesia, Malaysia, Australia, Taiwan and Thailand and safeguard duties in Thailand and Malaysia. We are also subject to a number of on-going anti-dumping and safeguard investigations in the United States, China, Indonesia, Malaysia, India, Taiwan, Thailand and Vietnam. In addition, the Mexican government initiated an anti-dumping investigation in October 2012 relating to our exports of cold rolled steel products, and the investigation was suspended until 2018 on condition that we comply with supply undertakings. Our products that are subject to anti-dumping, safeguard or countervailing duty proceedings in the aggregate currently do not account for a material portion of our total sales, and such proceedings have not had a material adverse impact on our business and operations in recent years. However, there can be no assurance that

increases in, or new impositions of, anti-dumping duties, safeguard duties, countervailing duties, quotas or tariffs on our exports of products abroad may not have a material adverse impact on our exports in the future. See “Item 4. Information on the Company — Item 4.B. Business Overview — Markets — Exports.”

During the course of its internal audit in July 2014, POSCO E&C, one of our subsidiaries, discovered certain officers’ use, for unauthorized and unidentified purposes, of approximately Won 10 billion belonging to POSCO E&C’s project management office and its subsidiary in Vietnam between 2009 and 2012, which related to certain construction projects in Vietnam. POSCO E&C, after such discovery through its internal audit, undertook an internal investigation over other projects for further assessment, strengthened its internal control procedures, such as segregating duties and enhancing monitoring procedures, to ensure similar cases do not arise and reprimanded the responsible employees, including dismissal of the responsible officers. After POSCO E&C’s internal audit result was publicized by the press, the prosecutors’ office of Korea commenced an investigation that lasted from March to October of 2015, which resulted in a determination to prosecute 14 responsible employees. We understand that the scope of the prosecution remains limited to the individuals and does not extend to POSCO E&C.

In 2012, the Korea Fair Trade Commission imposed a total fine of Won 108.6 billion on us and POSCO Coated & Color Steel Co., Ltd. (“POSCO Coated & Color Steel”), our consolidated subsidiary, for alleged antitrust violations in Korea relating to galvanized steel sheets and color sheets. Subsequent to paying such fines, we and POSCO Coated & Color Steel each filed for judicial review of such fines in the Seoul High Court in February 2013. In July 2015, the Seoul High Court ruled in our favor for reimbursement of the fine of Won 89.3 billion imposed on us, which was subsequently appealed by the Korea Fair Trade Commission and is currently pending at the Supreme Court of Korea. In January 2016, the Seoul High Court ruled against POSCO Coated & Color Steel with respect to the fine of Won 19.3 billion imposed against it, but POSCO Coated & Color Steel appealed with respect to Won 3.0 billion of such fine, which is currently pending at the Supreme Court of Korea. We and POSCO Coated & Color Steel intend to vigorously defend against such administrative actions.

In May 2002, Industrial Development Bank of India brought a suit against POSCO Daewoo, Daewoo Motors India Ltd., Daewoo Co., Ltd. and Daewoo Engineering & Construction Co., Ltd. in the India Delhi Mumbai Court, regarding its loans to Daewoo Motors India Ltd. guaranteed by Daewoo Co., Ltd. (predecessor of POSCO Daewoo). The total claim amount is Won 77 billion, and POSCO Daewoo recorded provision of Won 23 billion relating to its portion of the guarantee. The outcome of such lawsuits remains uncertain and POSCO Daewoo’s provision is classified as a non-current liability as of December 31, 2015.

In April 2012, Nippon Steel & Sumitomo Metal Corporation filed a civil lawsuit in Japan, alleging violation of trade secrets and seeking prohibition on production and sales of grain oriented electrical steel sheets. In September 2015, we paid Won 299 billion as settlement to Nippon Steel & Sumitomo Metal Corporation, and the lawsuit filed in Japan as well as all related lawsuits filed by Nippon Steel & Sumitomo Metal Corporation were withdrawn.

Except as described above, we are not involved in any pending or threatened legal or arbitration proceedings that may have, or have had during the last 12 months, a material adverse effect on our results of operations or financial position.

## **Dividends**

The amount of dividends paid on our common stock is subject to approval at the annual general meeting of shareholders, which is typically held in February or March of the following year. In addition to our annual dividends, our board of directors is authorized to declare and distribute interim dividends once a year under our articles of incorporation. If we decide to pay interim dividends, our articles of

incorporation authorize us to pay them in cash, shares or other form of property to the shareholders of record as of June 30 of the relevant fiscal year. We may pay cash dividends out of retained earnings that have not been appropriated to statutory reserves.

The table below sets out the annual dividends declared on the outstanding common stock to shareholders of record on December 31 of the years indicated and the interim dividends declared on the outstanding common stock to shareholders of record on June 30 of the years indicated. A total of 87,186,835 shares of common stock were issued as of December 31, 2015. Of these shares and as of such date, 79,995,648 shares were outstanding and 7,191,187 shares were held by us in treasury. The annual dividends set out for each of the years below were paid in the immediately following year.

Year	Annual Dividend per Common Stock to Public	Interim Dividend per Common Stock (In Won)	Average Total Dividend per Common Stock
2011 .....	7,500	2,500	10,000
2012 .....	6,000	2,000	8,000
2013 .....	6,000	2,000	8,000
2014 .....	6,000	2,000	8,000
2015 .....	6,000	2,000	8,000

Owners of the ADSs are entitled to receive any dividends payable in respect of the underlying shares of common stock.

Historically, we have paid to holders of record of our common stock an annual dividend. However, we can give no assurance that we will continue to declare and pay any dividends in the future.

**Item 8.B. Significant Changes**

Except as disclosed elsewhere in this annual report, we have not experienced any significant changes since the date of our Consolidated Financial Statements included in this annual report.

**Item 9. The Offer and Listing**

**Item 9.A. Offer and Listing Details**

**Market Price Information**

**Notes**

**Not applicable**

## Common Stock

The principal trading market for our common stock is the KRX KOSPI Market. Our common stock, which is in registered form and has a par value of Won 5,000 per share, has been listed on the first section of the KRX KOSPI Market since June 1988 under the identifying code 005490. The table below shows the high and low trading prices and the average daily volume of trading activity on the KRX KOSPI Market for our common stock.

	Price		Average Daily Trading Volume (Number of Shares)
	High	Low	
	(In Won)		
2011			
First Quarter	517,000	450,500	345,785
Second Quarter	565,000	421,000	282,070
Third Quarter	480,000	358,500	277,876
Fourth Quarter	351,000	308,000	235,063
2012			
First Quarter	424,000	376,000	198,239
Second Quarter	385,000	351,500	169,135
Third Quarter	391,000	353,500	159,508
Fourth Quarter	367,000	308,000	202,895
2013			
First Quarter	371,000	321,500	169,232
Second Quarter	326,000	292,500	182,277
Third Quarter	340,000	292,500	225,474
Fourth Quarter	338,000	307,500	183,055
2014			
First Quarter	322,000	272,500	222,494
Second Quarter	317,000	285,500	170,778
Third Quarter	361,000	291,500	201,548
Fourth Quarter	321,500	275,500	191,916
2015			
First Quarter	290,500	242,500	211,737
Second Quarter	269,000	214,500	256,415
Third Quarter	229,000	168,500	285,052
Fourth Quarter	193,000	162,000	380,436
October	193,000	167,000	396,644
November	188,000	165,500	326,570
December	179,000	162,000	418,095
2016			
First Quarter	222,000	156,000	394,379
January	178,500	156,000	367,264
February	202,000	173,000	391,685
March	222,000	203,000	413,306
Second Quarter (through April 27)	249,000	213,500	434,336
April (through April 27)	249,000	213,500	434,336

## ADSs

Our common stock is also listed on the New York Stock Exchange, the London Stock Exchange and the Tokyo Stock Exchange in the form of ADSs. The ADSs have been issued by Citibank, N.A. as ADR depository and are listed on the New York Stock Exchange under the symbol "PKX." One ADS represents one-fourth of one share of common stock. As of December 31, 2015, 49,982,260 ADSs representing 12,495,565 common shares were outstanding, representing 14.33% shares of common stock.

The table below shows the high and low trading prices and the average daily volume of trading activity on the New York Stock Exchange for our ADSs.

	Price		Average Daily
	High	Low	Trading Volume
	(In US\$)		(Number of
			ADSS)
2011			
First Quarter	117.57	100.50	403,646
Second Quarter	116.83	95.86	348,986
Third Quarter	112.41	76.01	344,454
Fourth Quarter	89.16	72.51	366,073
2012			
First Quarter	94.06	80.28	268,347
Second Quarter	85.09	74.82	262,176
Third Quarter	85.55	77.21	190,260
Fourth Quarter	82.97	71.85	187,932
2013			
First Quarter	86.69	72.41	258,130
Second Quarter	74.82	63.23	252,261
Third Quarter	78.75	64.29	186,347
Fourth Quarter	80.40	72.19	177,415
2014			
First Quarter	75.88	64.03	298,320
Second Quarter	76.56	69.60	223,292
Third Quarter	86.37	71.97	232,861
Fourth Quarter	75.11	63.61	361,829
2015			
First Quarter	66.00	54.66	305,147
Second Quarter	61.95	48.17	279,028
Third Quarter	51.03	34.48	475,594
Fourth Quarter	42.62	33.73	455,010
October	42.62	34.85	518,573
November	42.00	34.42	441,353
December	38.82	33.73	403,863
2016			
First Quarter	47.61	32.26	388,580
January	37.09	32.26	463,277
February	40.53	35.76	331,243
March	47.61	41.09	376,193
Second Quarter (through April 26)	54.85	46.71	446,989
April (through April 26)	54.85	46.71	446,989

#### **Item 9.B. Plan of Distribution**

**Not applicable**

#### **Item 9.C. Markets**

##### **The Korean Securities Market**

On January 27, 2005, the Korea Exchange was established pursuant to the Korea Securities and Futures Exchange Act by consolidating the Korea Stock Exchange, the Korea Futures Exchange, the KOSDAQ Stock Market, Inc., or the KOSDAQ, and the KOSDAQ Committee of the Korea Securities Dealers Association, which had formerly managed the KOSDAQ. There are three different markets operated by the Korea Exchange: the KRX KOSPI Market, the KRX KOSDAQ Market, and the KRX Derivatives Market. The Korea Exchange has two trading floors located in Seoul, one for the KRX KOSPI Market and one for the KRX KOSDAQ Market, and one trading floor in Busan for the KRX Derivatives Market. The Korea Exchange is a limited liability company, the shares of which are held by (i) investment brokers and investment dealers that were formerly members of the Korea Futures

Exchange or the Korea Stock Exchange and (ii) the stockholders of the KOSDAQ. Currently, the Korea Exchange is the only stock exchange in Korea and is operated by membership, having as its members most of the Korean investment brokers and investment dealers and some Korean branches of foreign investment brokers and investment dealers.

According to data published by the Korea Exchange, as of December 31, 2015, the aggregate market value of equity securities listed on the KRX KOSPI Market and the KRX KOSDAQ Market was approximately Won 1,444 trillion, and the average daily trading volume of equity securities for 2015 was approximately 1,060 million shares with an average transaction value of Won 8,875 billion. The Korea Exchange has the power in some circumstances to suspend trading in the shares of a given company or to de-list a security pursuant to the Regulation on Listing on the Korea Exchange. The Korea Exchange also restricts share price movements. All listed companies are required to file accounting reports annually, semi-annually and quarterly and to release immediately all information that may affect trading in a security.

The Government has in the past exerted, and continues to exert, substantial influence over many aspects of the private sector business community that can have the intention or effect of depressing or boosting the market. In the past, the Government has informally both encouraged and restricted the declaration and payment of dividends, induced mergers to reduce what it considers excess capacity in a particular industry and induced private companies to offer publicly their securities.

The Korea Exchange publishes the Korea Composite Stock Price Index, or KOSPI, every ten seconds, which is an index of all equity securities listed on the Korea Exchange. On January 1, 1983, the method of computing KOSPI was changed from the Dow Jones method to the aggregate value method. In the new method, the market capitalizations of all listed companies are aggregated, subject to certain adjustments, and this aggregate is expressed as a percentage of the aggregate market capitalization of all listed companies as of the base date, January 4, 1980.

Movements in KOSPI are set out in the following table together with the associated dividend yields and price earnings ratios.

Year	Opening	High	Low	Closing	Period Average	
					Dividend Yield <sup>(1)(2)</sup> (Percent)	Price Earnings Ratio <sup>(2)(3)</sup>
1986	161.40	279.67	153.85	272.61	4.3	7.6
1987	264.82	525.11	264.82	525.11	2.6	10.9
1988	532.04	922.56	527.89	907.20	2.4	11.2
1989	919.61	1,007.77	844.75	909.72	2.0	13.9
1990	908.59	928.82	566.27	696.11	2.2	12.8
1991	679.75	763.10	586.51	610.92	2.6	11.2
1992	624.23	691.48	459.07	678.44	2.2	10.9
1993	697.41	874.10	605.93	866.18	1.6	12.7
1994	879.32	1,138.75	855.37	1,027.37	1.2	16.2
1995	1,027.45	1,016.77	847.09	882.94	1.2	16.4
1996	882.29	986.84	651.22	651.22	1.3	17.8
1997	647.67	792.29	350.68	376.31	1.5	17.0
1998	374.41	579.86	280.00	562.46	1.9	10.8
1999	565.10	1,028.07	498.42	1,028.07	1.1	13.5
2000	1,028.33	1,059.04	500.60	504.62	1.6	18.6
2001	503.31	704.50	468.76	693.70	2.0	14.2
2002	698.00	937.61	584.04	627.55	1.4	17.8
2003	633.03	822.16	515.24	810.71	2.2	10.9
2004	821.26	936.06	719.59	895.92	2.1	15.8
2005	896.00	1,379.37	870.84	1,379.37	1.7	11.0
2006	1,383.32	1,464.70	1,203.86	1,434.46	1.7	11.4
2007	1,438.89	2,015.48	1,345.08	1,897.13	1.4	16.8
2008	1,891.45	1,888.88	938.75	1,124.47	2.6	8.9

Year	Opening	High	Low	Closing	Period Average	
					Dividend Yield <sup>(1)(2)</sup> (Percent)	Price Earnings Ratio <sup>(2)(3)</sup>
2009	1,132.87	1,718.88	1,018.81	1,682.77	1.2	23.7
2010	1,681.71	2,052.97	1,552.79	2,051.00	1.1	19.0
2011	2,063.69	2,231.47	1,644.11	1,825.12	1.3	13.1
2012	1,831.69	2,057.28	1,758.99	1,997.05	1.3	12.9
2013	2,031.10	2,059.58	1,780.63	2,011.34	1.1	15.0
2014	2,013.11	2,093.08	1,881.73	1,915.19	1.1	15.3
2015	1,926.44	2,173.41	1,829.81	1,961.31	1.3	14.6
2016 (through April 27)	1,918.76	2,022.10	1,835.28	2,015.40	1.4	14.3

Source: The KRX KOSPI Market

- (1) Dividend yields are based on daily figures. Before 1983, dividend yields were calculated at the end of each month. Dividend yields after January 3, 1984 include cash dividends only.
- (2) Starting in April 2000, dividend yield and price earnings ratio are calculated based on KOSPI 200, an index of 200 equity securities listed on the KRX KOSPI Market. Starting in April 2000, KOSPI 200 excludes classified companies, companies which did not submit annual reports to the KRX KOSPI Market, and companies which received qualified opinion from external auditors.
- (3) The price earnings ratio is based on figures for companies that record a profit in the preceding year.

Shares are quoted “ex-dividend” on the first trading day of the relevant company’s accounting period. Since the calendar year is the accounting period for the majority of listed companies, this may account for the drop in KOSPI between its closing level at the end of one calendar year and its opening level at the beginning of the following calendar year.

With certain exceptions, principally to take account of a share being quoted “ex-dividend” and “ex-rights,” permitted upward and downward movements in share prices of any category of shares on any day are limited under the rules of the Korea Exchange to 30% of the previous day’s closing price of the shares, rounded down as set out below:

Previous Day’s Closing Price (Won)	Rounded Down to (Won)
Less than 1,000	1
1,000 to less than 5,000	5
5,000 to less than 10,000	10
10,000 to less than 50,000	50
50,000 to less than 100,000	100
100,000 to less than 500,000	500
500,000 or more	1,000

As a consequence, if a particular closing price is the same as the price set by the fluctuation limit, the closing price may not reflect the price at which persons would have been prepared, or would be prepared to continue, if so permitted, to buy and sell shares. Orders are executed on an auction system with priority rules to deal with competing bids and offers.

Due to deregulation of restrictions on brokerage commission rates, the brokerage commission rate on equity securities transactions may be determined by the parties, subject to commission schedules being filed with the Korea Exchange by the financial investment companies with a brokerage license. In addition, a securities transaction tax of 0.5% of the sales price will generally be imposed on the transfer of shares or certain securities representing rights to subscribe for shares if traded on the KRX KOSPI Market. An agricultural and fishery special surtax of 0.15% of the sales prices will also be imposed on transfer of these shares and securities on the Korea Exchange. See “Item 10. Additional Information — Item 10.E. Taxation — Korean Taxation.”

The number of companies listed on the KRX KOSPI Market, the corresponding total market capitalization at the end of the periods indicated and the average daily trading volume for those periods are set forth in the following table:

Year	Market Capitalization on the Last Day of Each Period			Average Daily Trading Volume, Value		
	Number of Listed Companies	(Billions of Won)	(Millions of US\$) <sup>(1)</sup>	Thousands of Shares	(Millions of Won)	(Thousands of US\$) <sup>(1)</sup>
1986	355	₩ 11,994	US\$ 13,924	31,755	₩ 32,870	US\$ 38,159
1987	389	26,172	33,033	20,353	70,185	88,583
1988	502	64,544	94,348	10,367	198,364	289,963
1989	626	95,477	140,490	11,757	280,967	414,430
1990	669	79,020	110,301	10,866	183,692	256,411
1991	686	73,118	96,107	14,022	214,263	281,629
1992	688	84,712	107,448	24,028	308,246	390,977
1993	693	112,665	139,420	35,130	574,048	710,367
1994	699	151,217	191,730	36,862	776,257	984,223
1995	721	141,151	182,201	26,130	487,762	629,613
1996	760	117,370	139,031	26,571	486,834	576,680
1997	776	70,989	50,162	41,525	555,759	392,707
1998	748	137,799	114,091	97,716	660,429	546,803
1999	725	349,504	305,137	278,551	3,481,620	3,039,655
2000	704	188,042	149,275	306,163	2,602,211	2,065,739
2001	689	255,850	192,934	473,241	1,997,420	1,506,237
2002	683	258,681	215,496	857,245	3,041,598	2,533,815
2003	684	355,363	296,679	542,010	2,216,636	1,850,589
2004	683	412,588	395,275	372,895	2,232,109	2,138,445
2005	702	655,075	646,158	467,629	3,157,662	3,114,679
2006	731	704,588	757,948	279,096	3,435,180	3,695,331
2007	745	951,900	1,016,770	363,741	5,539,653	5,917,168
2008	763	576,888	458,758	352,599	3,211,039	2,553,510
2009	770	887,935	762,503	485,657	5,595,552	4,976,859
2010	777	1,141,885	1,006,243	380,859	5,619,768	4,952,210
2011	791	1,041,999	904,670	353,760	6,836,146	5,935,185
2012	930	1,154,294	1,078,578	486,479	4,823,642	4,507,234
2013	777	1,185,974	1,123,720	328,425	3,993,422	3,783,800
2014	773	1,192,253	1,084,655	278,081	3,983,580	3,624,072
2015	770	1,242,832	1,060,437	455,256	5,351,734	4,566,326
2016 (through April 27)	769	1,276,057	1,109,904	364,992	4,604,139	4,004,644

Source: The Korea Exchange

(1) Converted at the Concentration Base Rate of The Bank of Korea or the Market Average Exchange Rate, as the case may be, at the end of the periods indicated.

The Korean securities markets are principally regulated by the Financial Services Commission and under the regulations set forth in the FSCMA. In August 2007, the National Assembly of Korea enacted the FSCMA. The FSCMA, which came into effect on February 4, 2009, comprehensively regulates the Korean capital markets, the financial investment business (including collective investment businesses and trust businesses) and financial investment products (such as securities and derivatives). The FSCMA imposes restrictions on insider trading and price manipulation, requires specified information to be made available by listed companies to investors and establishes rules regarding margin trading, proxy solicitation, takeover bids, acquisition of treasury shares and reporting requirements for shareholders holding substantial interests. The FSCMA regulates the operation and monitoring of the securities and derivatives markets.

#### Protection of Customer's Interest in Case of Insolvency of Investment Brokers or Investment Dealers

Under Korean law, the relationship between a customer and an investment broker or an investment dealer in connection with a securities sell or buy order is deemed to be a consignment and

the securities acquired by a consignment agent (i.e., the investment broker or the investment dealer) through such sell or buy order are regarded as belonging to the customer in so far as the customer and the consignment agent's creditors are concerned. Therefore, in the event of a bankruptcy or reorganization procedure involving an investment broker or an investment dealer, the customer of the investment broker or the investment dealer is entitled to the proceeds of the securities sold by the investment broker or the investment dealer.

When a customer places a sell order with an investment broker or an investment dealer that is not a member of the KRX KOSPI Market or the KRX KOSDAQ Market and this investment broker or investment dealer places a sell order with another investment broker or investment dealer that is a member of the KRX KOSPI Market or the KRX KOSDAQ Market, the customer is still entitled to the proceeds of the securities sold and received by the non-member company from the member company regardless of the bankruptcy or reorganization of the non-member company.

Under the FSCMA, the Korea Exchange is obliged to indemnify any loss or damage incurred by a counterparty as a result of a breach by members of the KRX KOSPI Market or the KRX KOSDAQ Market. If an investment broker or an investment dealer that is a member of the KRX KOSPI Market or the KRX KOSDAQ Market breaches its obligation in connection with a buy order, the Korea Exchange is obliged to pay the purchase price on behalf of the breaching member. Therefore, the customer can acquire the securities that have been ordered to be purchased by the breaching member.

When a customer places a buy order with a non-member company and the non-member company places a buy order with a member company, the customer has the legal right to the securities received by the non-member company from the member company because the purchased securities are regarded as belonging to the customer in so far as the customer and the non-member company's creditors are concerned.

As the cash deposited with an investment broker or an investment dealer is regarded as belonging to the investment broker or investment dealer, which is liable to return the same at the request of its customer, the customer cannot take back deposited cash from the investment broker or the investment dealer if a bankruptcy or rehabilitation procedure is instituted against the investment broker or the investment dealer and, therefore, can suffer from loss or damage as a result. However, in case of the investment broker or the investment dealer's bankruptcy, liquidation, cancellation of investment broker or investment dealer license or other insolvency events, the Depositor Protection Act provides that the Korea Deposit Insurance Corporation will, upon the request of the investors, pay each investor up to a total of Won 50 million, which shall represent both actual cash deposited and any interest accrued thereon. Pursuant to the FSCMA, as amended, investment brokers or investment dealers are required to deposit the cash received from its customers at the securities finance company established pursuant to the FSCMA. Set-off or attachment of cash deposits by investment brokers or investment dealers is prohibited. The premiums related to this insurance are paid by investment brokers or investment dealers.

### **Clearance and Settlement**

The settlement of trades on the Korea Exchange is required to be handled by a settlement agency of the Korea Exchange. The Korea Securities Depository is the institution commissioned by the Korea Exchange to handle all such settlement of trades. The settlement of trades on the Korea Exchange takes place through a clearance and settlement procedure. The Korea Exchange has adopted the multilateral netting system and carries out the clearance of the trades by netting the sales and purchases of each Korea Securities Depository participant. The Korea Exchange is required to provide the daily net settlement results of the trades to the Korea Securities Depository one business day after the day of the sale and purchase contract. The Korea Securities Depository then handles settlement of the securities and the funds based on the information received from the Korea Exchange. The securities are settled through book-entry changes in the accounts of Korea Securities Depository

participants and the funds are settled by transfer to an account at a bank designated by the Korea Securities Depository. Settlement of trades is generally required to take place on the third day following the day of the sale and purchase contract.

**Item 9.D. *Selling Shareholders***

**Not applicable**

**Item 9.E. *Dilution***

**Not applicable**

**Item 9.F. *Expenses of the Issuer***

**Not applicable**

**Item 10. *Additional Information***

**Item 10.A. *Share Capital***

Currently, our authorized share capital is 200,000,000 shares, which consists of shares of common stock, par value Won 5,000 per share ("Common Shares") and shares of non-voting stock, par value Won 5,000 per share ("Non-Voting Preferred Shares"). Our Non-Voting Preferred Shares have a preferential right to dividend payments. Common Shares and Non-Voting Preferred Shares together are referred to as "Shares." Under our articles of incorporation, we are authorized to issue Non-Voting Preferred Shares up to the limit prescribed by applicable law, the aggregate of which currently is one-quarter of our total issued and outstanding capital stock. As of December 31, 2015, 87,186,835 Common Shares were issued, of which 7,191,187 shares were held by us in treasury. We have never issued any Non-Voting Preferred Shares. All of the issued and outstanding Common Shares are fully-paid and non-assessable and are in registered form. We issue share certificates in denominations of 1, 3, 4, 5, 10, 50, 100, 500, 1,000 and 10,000 shares.

**Item 10.B. *Memorandum and Articles of Association***

This section provides information relating to our capital stock, including brief summaries of material provisions of our articles of incorporation, the FSCMA, the Commercial Code and related laws, all as currently in effect. The following summaries are subject to, and are qualified in their entirety by reference to, our articles of incorporation and the applicable provisions of the FSCMA and the Commercial Code. We have filed copies of our articles of incorporation and these laws (except for the newly enacted the FSCMA) as exhibits to registration statements under the Securities Act or the Securities Exchange Act previously filed by us.

**Dividends**

We distribute dividends to our shareholders in proportion to the number of shares owned by each shareholder. The Common Shares represented by the ADSs have the same dividend rights as other outstanding Common Shares.

Holders of Non-Voting Preferred Shares are entitled to receive dividends in priority to the holders of Common Shares in an amount not less than 9% of the par value of the Non-Voting Preferred Shares as determined by the board of directors at the time of their issuance. If the amount available for dividends is less than the aggregate amount of such minimum dividend, we do not have to declare dividends on the Non-Voting Preferred Shares.

We may declare dividends annually at the annual general meeting of shareholders which is held within three months after the end of the fiscal year. We pay the annual dividend shortly after the annual

general meeting to the shareholders of record as of the end of the preceding fiscal year. We may distribute the annual dividend in cash, Shares or other form of property. However, a dividend of Shares must be distributed at par value. Dividends in Shares may not exceed one-half of the annual dividend. In addition, we may declare, and distribute in cash, interim dividends pursuant to a board resolution once a fiscal year to the eligible shareholders recorded as of the end of March, June and September of the relevant fiscal year. We have no obligation to pay any annual dividend unclaimed for five years from the payment date.

Under the Commercial Code, we may pay an annual dividend only to the extent the net asset amount in our balance sheets exceeds the sum of the following: (i) our stated capital, (ii) the total amount of our capital surplus reserve and earned surplus reserve accumulated up to the end of the relevant dividend period, (iii) the legal reserve to be set aside for annual dividend, and (iv) unrealized profits determined in the Presidential Decree to the Commercial Code. We may not pay an annual dividend unless we have set aside as earned surplus reserve an amount equal to at least 10% of the cash portion of the annual dividend or unless we have accumulated earned surplus reserve of not less than one-half of our stated capital. We may not use legal reserve to pay cash dividends but may transfer amounts from legal reserve to capital stock or use legal reserve to reduce an accumulated deficit.

### **Distribution of Free Shares**

In addition to paying dividends in Shares out of our retained or current earnings, we may also distribute to our shareholders an amount transferred from our capital surplus or legal reserve to our stated capital in the form of free shares. We must distribute such free shares to all our shareholders in proportion to their existing shareholdings.

### **Preemptive Rights and Issuance of Additional Shares**

We may issue authorized but unissued shares at the times and, unless otherwise provided in the Commercial Code, on the terms our board of directors may determine. All our shareholders are generally entitled to subscribe for any newly issued Shares in proportion to their existing shareholdings. We must offer new Shares on uniform terms to all shareholders who have preemptive rights and are listed on our shareholders' register as of the relevant record date. Under the Commercial Code, we may vary, without shareholders' approval, the terms of these preemptive rights for different classes of shares. We must give public notice of the preemptive rights regarding new Shares and their transferability at least two weeks before the relevant record date. Our board of directors may determine how to distribute Shares for which preemptive rights have not been exercised or where fractions of Shares occur.

Under our articles of incorporation, we may issue new Shares pursuant to a board resolution to persons other than existing shareholders, who in these circumstances will not have preemptive rights, if the new Shares are:

- offered publicly or to underwriters for underwriting pursuant to the FSCMA;
- issued to members of our employee stock ownership association pursuant to the FSCMA;
- represented by depositary receipts pursuant to the FSCMA;
- issued in a general public offering pursuant to a board resolution in accordance with the FSCMA, the amount of which is no more than 10% of the outstanding Shares;
- issued to our creditors pursuant to a debt-equity swap;
- issued to domestic or foreign corporations pursuant to a joint venture agreement, strategic coalition or technology inducement agreement when deemed necessary for management purposes; or

- issued to domestic or foreign financial institutions when necessary for raising funds in emergency cases.

In addition, we may issue convertible bonds or bonds with warrants, each up to an aggregate principal amount of Won 2 trillion, to persons other than existing shareholders.

Members of our employee stock ownership association, whether or not they are our shareholders, generally have a preemptive right to subscribe for up to 20% of the Shares publicly offered pursuant to the FSCMA. This right is exercisable only to the extent that the total number of Shares so acquired and held by members of our employee stock ownership association does not exceed 20% of the total number of Shares then issued. As of December 31, 2015, our employees owned, through our employee stock ownership association, approximately 0.001% of our common stock in their association accounts and 1.76% of our common stock in their employee accounts.

### **General Meeting of Shareholders**

We hold the annual general meeting of shareholders within three months after the end of each fiscal year. The record date of the register of shareholders is December 31 of each year, and such shareholders listed on the register of shareholder as of the record date are entitled to exercise their right at the general meeting of shareholders. Subject to a board resolution or court approval, we may hold an extraordinary general meeting of shareholders:

- as necessary;
- at the request of holders of an aggregate of 3% or more of our outstanding Shares;
- at the request of shareholders holding an aggregate of 1.5% or more of our outstanding Shares for at least six months; or
- at the request of our audit committee.

Holders of Non-Voting Preferred Shares may request a general meeting of shareholders only after the Non-Voting Preferred Shares become entitled to vote or “enfranchised,” as described under “— Voting Rights” below.

We must give shareholders written notice or electronic document setting out the date, place and agenda of the meeting at least two weeks before the date of the general meeting of shareholders. However, for holders of 1% or less of the total number of issued and outstanding voting Shares, we may give notice by placing at least two public notices in at least two daily newspapers or by notices to be posted on the electronic disclosure database system maintained by the Financial Supervisory Service or the Korea Exchange at least two weeks in advance of the meeting. Currently, we use *The Seoul Shinmun* published in Seoul, *The Maeil Shinmun* published in Taegu and *The Kwangju Ilbo* published in Kwangju for this purpose. Shareholders not on the shareholders’ register as of the record date are not entitled to receive notice of the general meeting of shareholders or attend or vote at the meeting. Holders of Non-Voting Preferred Shares, unless enfranchised, are not entitled to receive notice of general meetings of shareholders, but may attend such meetings. Our general meetings of shareholders are held either in Pohang or Seoul.

### **Voting Rights**

Holders of our Common Shares are entitled to one vote for each Common Share, except that voting rights of Common Shares held by us, or by a corporate shareholder that is more than 10% owned by us either directly or indirectly, may not be exercised. The Commercial Code permitted cumulative voting, under which voting method each shareholder would have multiple voting rights corresponding to the number of directors to be appointed in the voting and may exercise all voting rights cumulatively to elect one director.

Our shareholders may adopt resolutions at a general meeting by an affirmative majority vote of the voting Shares present or represented at the meeting, where the affirmative votes also represent at

least one-fourth of our total voting Shares then issued and outstanding. However, under the Commercial Code and our articles of incorporation, the following matters, among others, require approval by the holders of at least two-thirds of the voting Shares present or represented at a meeting, where the affirmative votes also represent at least one-third of our total voting Shares then issued and outstanding:

- amending our articles of incorporation;
- removing a director;
- effecting any dissolution, merger or consolidation of us;
- transferring the whole or any significant part of our business;
- acquisition of all or a part of the business of any other company that may have a material impact on our business;
- issuing any new Shares at a price lower than their par value; or
- approving matters required to be approved at a general meeting of shareholders, which have material effects on our assets, as determined by the Board of Directors.

In general, holders of Non-Voting Preferred Shares are not entitled to vote on any resolution or receive notice of any general meeting of shareholders. However, in the case of amendments to our articles of incorporation, or any merger or consolidation of us, or in some other cases that affect the rights or interests of the Non-Voting Preferred Shares, approval of the holders of Non-Voting Preferred Shares is required. We may obtain the approval by a resolution of holders of at least two-thirds of the Non-Voting Preferred Shares present or represented at a class meeting of the holders of Non-Voting Preferred Shares, where the affirmative votes also represent at least one-third of our total issued and outstanding Non-Voting Preferred Shares.

Shareholders may exercise their voting rights by proxy. When a shareholder is a corporate entity, such shareholder may give proxies to its officers or directors.

Holders of ADRs exercise their voting rights through the ADR depositary, an agent of which is the record holder of the underlying Common Shares. Subject to the provisions of the deposit agreement, ADR holders are entitled to instruct the ADR depositary how to vote the Common Shares underlying their ADSs.

### **Rights of Dissenting Shareholders**

In some limited circumstances, including the transfer of the whole or any significant part of our business and our merger or consolidation with another company, dissenting shareholders have the right to require us to purchase their Shares. Only the shareholders who have executed a share purchase agreement evidencing their acquisition of the relevant Shares on or prior to the day immediately following the public disclosure of the board resolutions approving any of the aforementioned transactions have the rights to require us to purchase their Shares. To exercise this right, shareholders, including holders of Non-Voting Preferred Shares, must submit to us a written notice of their intention to dissent before the general meeting of shareholders. Within 20 days after the relevant resolution is passed at a meeting, the dissenting shareholders must request us in writing to purchase their Shares. We are obligated to purchase the Shares of dissenting shareholders within one month after the expiration of the 20-day period. The purchase price for the Shares is required to be determined through negotiation between the dissenting shareholders and us. If we cannot agree on a price through negotiation, the purchase price will be the average of (1) the weighted average of the daily Share prices on the Korea Exchange for the two-month period before the date of the adoption of the relevant board resolution, (2) the weighted average of the daily Share price on the Korea Exchange

for the one month period before the date of the adoption of the relevant resolution and (3) the weighted average of the daily Share price on the Korea Exchange for the one week period before such date of the adoption of the relevant resolution. However, the court may determine this price if we or dissenting shareholders do not accept the purchase price. Holders of ADSs will not be able to exercise dissenter's rights unless they have withdrawn the underlying common stock and become our direct shareholders.

### **Register of Shareholders and Record Dates**

Our transfer agent, Kookmin Bank, maintains the register of our shareholders at its office in Seoul, Korea. It registers transfers of Shares on the register of shareholders on presentation of the Share certificates.

The record date for annual dividends is December 31. For the purpose of determining the shareholders entitled to annual dividends, the register of shareholders may be closed for the period from January 1 to January 15 of each year. Further, for the purpose of determining the shareholders entitled to some other rights pertaining to the Shares, we may, on at least two weeks' public notice, set a record date and/or close the register of shareholders for not more than three months. The trading of Shares and the delivery of share certificates may continue while the register of shareholders is closed.

### **Annual Report**

At least one week before the annual general meeting of shareholders, we must make our annual report and audited financial statements available for inspection at our principal office and at all of our branch offices. In addition, copies of annual reports, the audited financial statements and any resolutions adopted at the general meeting of shareholders will be available to our shareholders.

Under the FSCMA, we must file with the Financial Services Commission and the Korea Exchange (1) an annual business report within 90 days after the end of our fiscal year, (2) a half-year report within 45 days after the end of the first six months of our fiscal year, and (3) quarterly reports within 45 days after the end of the third month and the ninth month of our fiscal year. Copies of these reports are or will be available for public inspection at the Financial Services Commission and the Korea Exchange.

### **Transfer of Shares**

Under the Commercial Code, the transfer of Shares is effected by delivery of share certificates. However, to assert shareholders' rights against us, the transferee must have his name and address registered on our register of shareholders. For this purpose, a shareholder is required to file his name, address and seal with our transfer agent. A non-Korean shareholder may file a specimen signature in place of a seal, unless he is a citizen of a country with a sealing system similar to that of Korea. In addition, a non-resident shareholder must appoint an agent authorized to receive notices on his behalf in Korea and file a mailing address in Korea. The above requirements do not apply to the holders of ADSs.

Under current Korean regulations, the Korea Securities Depository, foreign exchange banks (including domestic branches of foreign banks), financial investment companies with a brokerage, dealing or collective investment license and internationally recognized custodians may act as agents and provide related services for foreign shareholders. Certain foreign exchange controls and securities regulations apply to the transfer of Shares by non-residents or non-Koreans. See "Item 10. Additional Information — Item 10.D. Exchange Controls."

Our transfer agent is Kookmin Bank, located at 26, Gukjegeumyung-ro 8-gil, Yeongdeungpo-gu, Seoul, Korea.

## **Acquisition of Shares by Us**

We may acquire our own Shares, subject to the approval by the general meeting of shareholders. In addition, we may acquire Shares through purchases on the Korea Exchange or through a tender offer or by acquiring the interests in a trust account holding our own Shares through agreements with trust companies and asset management companies. The aggregate purchase price for the Shares may not exceed the total amount available for distribution of dividends available at the end of the preceding fiscal year less the amount of dividends and mandatory reserves required to be set aside for that fiscal year, subject to certain procedural requirements.

In accordance with the Commercial Code, we may resell or transfer any Shares acquired by us to a third party, subject to the approval by the Board of Directors. In general, corporate entities in which we own more than 50% equity interest may not acquire our Shares. Under the FSCMA, we are subject to certain selling restrictions for the Shares acquired by us.

## **Liquidation Rights**

In the event of our liquidation, after payment of all debts, liquidation expenses and taxes, our remaining assets will be distributed among shareholders in proportion to their shareholdings. Holders of Non-Voting Preferred Shares have no preference in liquidation.

## **Item 10.C. *Material Contracts***

None.

## **Item 10.D. *Exchange Controls***

### **Shares and ADSs**

The Foreign Exchange Transaction Act and the Presidential Decree and regulations under that Act and Decree (collectively, "Foreign Exchange Transaction Laws") and the Foreign Investment Promotion Law regulate investment in Korean securities by non-residents and issuance of securities outside Korea by Korean companies. Under the Foreign Exchange Transaction Laws, non-residents may invest in Korean securities subject to procedural requirements in accordance with these laws. The Financial Services Commission has also adopted, pursuant to its authority under the FSCMA, regulations that restrict investment by foreigners in Korean securities.

Subject to certain limitations, the Ministry of Strategy and Finance has the authority to take the following actions under the Foreign Exchange Transaction Laws:

- if the Government deems it necessary on account of war, armed conflict, natural disaster or grave and sudden and significant changes in domestic or foreign economic circumstances or similar events or circumstances, the Ministry of Strategy and Finance may temporarily suspend performance under any or all foreign exchange transactions, in whole or in part, to which the Foreign Exchange Transaction Laws apply (including suspension of payment and receipt of foreign exchange) or impose an obligation to deposit, safe-keep or sell any means of payment to The Bank of Korea, a foreign exchange stabilization fund, certain other governmental agencies or financial companies; and
- if the Government concludes that the international balance of payments and international financial markets are experiencing or are likely to experience significant disruption or that the movement of capital between Korea and other countries is likely to adversely affect the Won, exchange rates or other macroeconomic policies, the Ministry of Strategy and Finance may take action to require any person who intends to effect a capital transaction to obtain permission or to require any person who effects a capital transaction to deposit a portion of the means of payment acquired in such transactions with The Bank of Korea, a foreign exchange stabilization fund, certain other governmental agencies or financial companies.

## **Government Review of Issuance of ADSs**

In order for us to issue shares represented by ADSs, we are required to file a prior report of the issuance with our designated foreign exchange bank or the Ministry of Strategy and Finance, depending on the issuance amount. No further Korean governmental approval is necessary for the initial offering and issuance of the ADSs.

Under current Korean laws and regulations, the depositary bank is required to obtain our prior consent for the number of shares to be deposited in any given proposed deposit which exceeds the difference between (1) the aggregate number of shares deposited by us for the issuance of ADSs (including deposits in connection with the initial and all subsequent offerings of ADSs and stock dividends or other distributions related to these ADSs) and (2) the number of shares on deposit with the depositary bank at the time of such proposed deposit. We can give no assurance that we would grant our consent, if our consent is required.

## **Reporting Requirements for Holders of Substantial Interests**

Under the FSCMA, any person whose direct or beneficial ownership of shares with voting rights, whether in the form of shares or ADSs, certificates representing the rights to subscribe for Shares and equity-related debt securities including convertible bonds and bonds with warrants (collectively, "Equity Securities") together with the Equity Securities beneficially owned by certain related persons or by any person acting in concert with the person accounts for 5% or more of the total outstanding Equity Securities is required to report the status and the purpose (whether or not to exert an influence on management control over the issuer) of the holdings to the Financial Services Commission and the Korea Exchange within five business days after reaching the 5% ownership interest. In addition, any change in the purpose of holding such ownership interest or a change in the ownership interest subsequent to the report which equals or exceeds 1% of the total outstanding Equity Securities is required to be reported to the Financial Services Commission and the Korea Exchange within five business days from the date of the change. However, the reporting deadline of such reporting requirement is extended to the tenth day of the month immediately following the month of such change in their shareholding for (1) certain professional investors, as specified under the FSCMA, or (2) persons who hold shares for purposes other than management control. Those who report the purpose of shareholding as management control of the issuer are prohibited from exercising their voting rights and acquiring additional shares for five days subsequent to their report under the FSCMA.

Violation of these reporting requirements may subject a person to criminal sanctions such as fines or imprisonment and may result in a loss of voting rights with respect to the ownership of Equity Securities exceeding 5%. Furthermore, the Financial Services Commission may issue an order to dispose of non-reported Equity Securities.

In addition to the reporting requirements described above, any person whose direct or beneficial ownership of a company's shares accounts for 10% or more of the total issued and outstanding shares with voting rights (a "major stockholder") must report the status of his or her shareholding to the Securities and Futures Commission and the Korea Exchange within five business days after he or she becomes a major stockholder. In addition, any change in the ownership interest subsequent to the report must be reported to the Securities and Futures Commission and the Korea Exchange by the fifth business day of any changes in his or her shareholding. Violation of these reporting requirements may subject a person to criminal sanctions such as fines or imprisonment.

Under the KRX regulations, if a company listed on the KRX KOSPI Market has submitted public disclosure of material matters to a foreign financial investment supervisory authority pursuant to the laws of the foreign jurisdiction, then it must submit a copy of the public disclosure and a Korean translation thereof to the Korea Exchange. In addition, if a company listed on the KRX KOSPI Market is approved for listing on a foreign stock exchange or determined to be de-listed from the foreign stock

exchange or actually lists on, or de-lists from, a foreign stock exchange, then it must submit to the Korea Exchange a copy, together with a Korean translation thereof, of all documents submitted to, or received from, the relevant foreign government, supervisory authority or stock exchange.

### **Restrictions Applicable to ADSs**

No Korean governmental approval is necessary for the sale and purchase of ADSs in the secondary market outside Korea or for the withdrawal of shares underlying ADSs and the delivery inside Korea of shares in connection with the withdrawal, provided that a foreigner who intends to acquire the shares must obtain an investment registration card from the Financial Supervisory Service as described below. The acquisition of the shares by a foreigner must be immediately reported by the foreigner or his standing proxy in Korea to the Governor of the Financial Supervisory Service (“Governor”).

Persons who have acquired shares as a result of the withdrawal of shares underlying the ADSs may exercise their preemptive rights for new shares, participate in free distributions and receive dividends on shares without any further governmental approval.

In addition, under the Financial Services Commission regulations, effective as of November 30, 2006, we are required to file a securities registration statement with the Financial Services Commission and such securities registration statement has to become effective pursuant to the FSCMA in order for us to issue shares represented by ADSs, except in certain limited circumstances.

### **Restrictions Applicable to Shares**

Under the Foreign Exchange Transaction Laws and the Financial Services Commission regulations (together, the “Investment Rules”), foreigners may invest, with limited exceptions and subject to procedural requirements, in all shares of Korean companies, whether listed on the KRX KOSPI Market or the KRX KOSDAQ Market, unless prohibited by specific laws. Foreign investors may trade shares listed on the KRX KOSPI Market or the KRX KOSDAQ Market only through the KRX KOSPI Market or the KRX KOSDAQ Market, except in limited circumstances, including, among others:

- odd-lot trading of shares;
- acquisition of shares (“Converted Shares”) by exercise of warrant, conversion right under convertible bonds or withdrawal right under depositary receipts issued outside of Korea by a Korean company;
- acquisition of shares as a result of inheritance, donation, bequest or exercise of shareholders’ rights, including preemptive rights or rights to participate in free distributions and receive dividends;
- over-the-counter transactions between foreigners of a class of shares for which the ceiling on aggregate acquisition by foreigners, as explained below, has been reached or exceeded with certain exceptions;
- shares acquired by direct investment as defined in the Foreign Investment Promotion Law;
- disposal of shares pursuant to the exercise of appraisal rights of dissenting shareholders;
- disposal of shares in connection with a tender offer;
- acquisition of shares by a foreign depositary in connection with the issuance of depositary receipts;
- acquisition and disposal of shares through overseas stock exchange market if such shares are simultaneously listed on the KRX KOSPI Market or the KRX KOSDAQ Market and such overseas stock exchange; and

- arm's length transactions between foreigners, if all of such foreigners belong to an investment group managed by the same person.

The Investment Rules require a foreign investor who wishes to invest in shares for the first time on the Korea Exchange (including Converted Shares) to register its identity with the Financial Supervisory Service prior to making any such investment; however, the registration requirement does not apply to foreign investors who acquire Converted Shares with the intention of selling such Converted Shares within three months from the date of acquisition of the Converted Shares or who acquire the shares in an over-the-counter transaction or dispose of shares where such acquisition or disposal is deemed to be a foreign direct investment pursuant to the Foreign Investment Promotion Law. Upon registration, the Financial Supervisory Service will issue to the foreign investor an investment registration card which must be presented each time the foreign investor opens a brokerage account with a financial investment company with a brokerage license or dealing license in Korea. Foreigners eligible to obtain an investment registration card include foreign nationals who are individuals residing abroad for more than six months, foreign governments, foreign municipal authorities, foreign public institutions, international financial institutions or similar international organizations, corporations incorporated under foreign laws and any person in any additional category designated by the Enforcement Decree to the FSCMA. All Korean offices of a foreign corporation as a group are treated as a separate foreigner from the offices of the corporation outside Korea. However, a foreign corporation or depository issuing depository receipts may obtain one or more investment registration cards in its name in certain circumstances as described in the relevant regulations.

Upon a foreign investor's purchase of shares through the Korea Exchange, no separate report by the investor is required because the investment registration card system is designed to control and oversee foreign investment through a computer system. However, a foreign investor's acquisition or sale of shares outside the Korea Exchange (as discussed above) must be reported by the foreign investor or his standing proxy to the Governor at the time of each such acquisition or sale; provided, however, that a foreign investor must ensure that any acquisition or sale by it of shares outside the Korea Exchange in the case of trades in connection with a tender offer, odd-lot trading of shares or trades of a class of shares for which the aggregate foreign ownership limit has been reached or exceeded, is reported to the Governor by the Korea Securities Depository, financial investment companies with a dealing or brokerage license or securities finance companies engaged to facilitate such transaction. A foreign investor must appoint one or more standing proxies from among the Korea Securities Depository, foreign exchange banks (including domestic branches of foreign banks) financial investment companies with a dealing, brokerage or collective investment license and internationally recognized custodians which will act as a standing proxy to exercise shareholders' rights or perform any matters related to the foregoing activities if the foreign investor does not perform these activities himself. However, a foreign investor may be exempted from complying with these standing proxy rules with the approval of the Governor in cases deemed inevitable by reason of conflict between laws of Korea and those of the home country of the foreign investor.

Certificates evidencing shares of Korean companies must be kept in custody with an eligible custodian in Korea. Only foreign exchange banks (including domestic branches of foreign banks), financial investment companies with a dealing, brokerage or collective investment license, the Korea Securities Depository and internationally recognized custodians are eligible to act as a custodian of shares for a non-resident or foreign investor. A foreign investor must ensure that his custodian deposits its shares with the Korea Securities Depository. However, a foreign investor may be exempted from complying with this deposit requirement with the approval of the Governor in circumstances where compliance with that requirement is made impracticable, including cases where compliance would contravene the laws of the home country of such foreign investor.

Under the Investment Rules, with certain exceptions, foreign investors may acquire shares of a Korean company without being subject to any foreign investment ceiling. As one such exception, designated public corporations are subject to a 40% ceiling on the acquisition of shares by foreigners

in the aggregate. Designated public corporations may set a ceiling on the acquisition of shares by a single person according to its articles of incorporation. We set this ceiling at 3% until the discontinuation of our designation as a public corporation on September 28, 2000. As a result, we currently do not have any ceiling on the acquisition of shares by a single person or by foreigners in the aggregate. Furthermore, an investment by a foreign investor of not less than 10% of the outstanding shares with voting rights of a Korean company is defined as a direct foreign investment under the Foreign Investment Promotion Law, which is, in general, subject to the report to, and acceptance by, the Ministry of Trade, Industry & Energy. The acquisition of shares of a Korean company by a foreign investor may also be subject to certain foreign shareholding restrictions in the event that the restrictions are prescribed in each specific law which regulates the business of the Korean company.

Under the Foreign Exchange Transaction Laws, a foreign investor who intends to acquire shares must designate a foreign exchange bank at which he must open a foreign currency account and a Won account exclusively for stock investments. No approval is required for remittance into Korea and deposit of foreign currency funds in the foreign currency account. Foreign currency funds may be transferred from the foreign currency account at the time required to place a deposit for, or settle the purchase price of, a stock purchase transaction to a Won account opened in the name of a financial investment company with a dealing, brokerage or collective investment license. Funds in the foreign currency account may be remitted abroad without any governmental approval.

Dividends on Shares are paid in Won. No governmental approval is required for foreign investors to receive dividends on, or the Won proceeds of the sale of, any shares to be paid, received and retained in Korea. Dividends paid on, and the Won proceeds of the sale of, any shares held by a non-resident of Korea must be deposited either in a Won account with the investor's financial investment company with a dealing, brokerage or collective investment license or his Won Account. Funds in the investor's Won Account may be transferred to his foreign currency account or withdrawn for local living expenses up to certain limitations. Funds in the Won Account may also be used for future investment in shares or for payment of the subscription price of new shares obtained through the exercise of preemptive rights.

Financial investment companies with a dealing, brokerage or collective investment license are allowed to open foreign currency accounts with foreign exchange banks exclusively for accommodating foreign investors' stock investments in Korea. Through these accounts, these financial investment companies and asset management companies may enter into foreign exchange transactions on a limited basis, such as conversion of foreign currency funds and Won funds, as counterparty to foreign investors, without the investors having to open their own accounts with foreign exchange banks.

#### **Item 10.E. *Taxation***

The following summary is based upon tax laws of the United States and Korea as in effect on the date of this annual report on Form 20-F, and is subject to any change in United States or Korean law that may come into effect after such date. Investors in the shares of common stock or ADSs are advised to consult their own tax advisers as to the United States, Korean or other tax consequences of the purchase, ownership and disposition of such securities, including the effect of any foreign, state or local tax laws.

#### **Korean Taxation**

The following is a summary of the principal Korean tax consequences to owners of the common shares or ADSs, as the case may be, who are non-resident individuals or non-Korean corporations without a permanent establishment in Korea to which the relevant income is attributable or with which the relevant income is effectively connected ("Non-resident Holders"). The statements regarding Korean tax laws set forth below are based on the laws in force and as interpreted by the Korean taxation authorities as of the date hereof. This summary is not exhaustive of all possible tax

considerations which may apply to a particular investor and potential investors are advised to satisfy themselves as to the overall tax consequences of the acquisition, ownership and disposition of the common shares or ADSs, including specifically the tax consequences under Korean law, the laws of the jurisdiction of which they are resident, and any tax treaty between Korea and their country of residence, by consulting their own tax advisers.

### ***Tax on Dividends***

Dividends on the common shares or ADSs paid (whether in cash or in shares) to a Non-resident Holder will be subject to Korean withholding taxes at the rate of 22% (including local income tax) or such lower rate as is applicable under a treaty between Korea and such Non-resident Holder's country of tax residence. Free distributions of shares representing a capitalization of certain capital surplus reserves may be subject to Korean withholding taxes.

The tax is withheld by the payer of the dividend. Since the payer is required to withhold the tax, Korean law does not entitle the person who was subject to the withholding of Korean tax to recover from the Government any part of the Korean tax withheld, even if it subsequently produces evidence that it was entitled to have tax withheld at a lower rate, except in certain limited circumstances.

### ***Tax on Capital Gains***

As a general rule, capital gains earned by Non-resident Holders upon transfer of the common shares or ADSs are subject to Korean withholding tax at the lower of (i) 11% (including local income tax) of the gross proceeds realized or (ii) 22% (including local income tax) of the net realized gains (subject to the production of satisfactory evidence of the acquisition costs and certain direct transaction costs), unless exempt from Korean income taxation under the effective Korean tax treaty with the Non-resident Holder's country of tax residence or Korean tax law.

However, a Non-resident Holder will not be subject to Korean income taxation on capital gains realized upon the sale of the common shares through the KRX KOSPI Market if the Non-resident Holder (i) has no permanent establishment in Korea and (ii) did not or has not owned (together with any shares owned by any entity with a specified special relationship with such Non-resident Holder) 25% or more of the total issued and outstanding shares of us at any time during the calendar year in which the sale occurs and during the five calendar years prior to the calendar year in which the sale occurs.

It should be noted that capital gains earned by you (regardless of whether you have a permanent establishment in Korea) from a transfer of ADSs outside Korea will generally be exempt from Korean income taxation, provided that the ADSs are deemed to have been issued overseas. If and when an owner of the underlying common shares transfers the ADSs following the conversion of the underlying shares for ADSs, such person will not be exempt from Korean income taxation.

### ***Inheritance Tax and Gift Tax***

Korean inheritance tax is imposed upon (1) all assets (wherever located) of the deceased if at the time of his death he was domiciled in Korea and (2) all property located in Korea which passes on death (irrespective of the domicile of the deceased). Gift tax is imposed in similar circumstances to the above. The taxes are imposed if the value of the relevant property is above a certain limit and the rate varies from 10% to 50% depending on the value of the property.

Under Korean inheritance and gift tax laws, securities issued by a Korean corporation are deemed to be located in Korea irrespective of where they are physically located or by whom they are owned and consequently, the Korea inheritance and gift taxes will be imposed on transfers of the securities by inheritance or gift.

### ***Securities Transaction Tax***

Securities transaction tax is imposed on the transfer of shares issued by a Korean corporation or the right to subscribe for such shares generally at the rate of 0.5% of the sales price. In the case of the transfer of shares listed on the KRX KOSPI Market (such as the common shares), the securities transaction tax is imposed generally at the rate of (i) 0.3% of the sales price of such shares (including agricultural and fishery special surtax thereon) if traded on the KRX KOSPI Market or (ii) subject to certain exceptions, 0.5% of the sales price of such shares if traded outside the KRX KOSPI Market.

Securities transaction tax or the agricultural and fishery special surtax is not applicable if (i) the shares or rights to subscribe for shares are listed on a designated foreign stock exchange and (ii) the sale of the shares takes place on such exchange.

Securities transaction tax, if applicable, must be paid by the transferor of the shares or rights, in principle. When the transfer is effected through a securities settlement company, such settlement company is generally required to withhold and pay (to the tax authority) the tax, and when such transfer is made through a financial investment company with a brokerage license only, such company is required to withhold and pay the tax. Where the transfer is effected by a Non-resident Holder without a permanent establishment in Korea, other than through a securities settlement company or a financial investment company with a brokerage license, the transferee is required to withhold the securities transaction tax. Failure to do so will result in the imposition of penalties equal to the sum of (i) between 10% to 40% of the tax amount due, depending on the nature of the improper reporting, and (ii) 10.95% per annum on the tax amount due for the default period.

### ***Tax Treaties***

Currently, Korea has income tax treaties with a number of countries, including, inter alia, Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Italy, Japan, Luxembourg, Ireland, the Netherlands, New Zealand, Norway, Singapore, Sweden, Switzerland, the United Kingdom and the United States of America, under which the rate of withholding tax on dividend and interest is reduced, generally to between 5% and 16.5% (including local income tax), and the tax on capital gains derived by a non-resident from the transfer of securities issued by a Korean company is often eliminated.

Each Non-resident Holder of common shares should inquire for itself whether it is entitled to the benefits of a tax treaty with Korea. It is the responsibility of the party claiming the benefits of a tax treaty in respect of interest, dividend, capital gains or "other income" to submit to us (or our agent), the purchaser or the financial investment company with a brokerage license, as the case may be, prior to or at the time of payment, such evidence of tax residence of the party claiming the treaty benefit as the Korean tax authorities may require in support of its claim for treaty protection. In the absence of sufficient proof, we (or our agent), the purchaser or the financial investment company with a brokerage license, as the case may be, must withhold tax at the normal rates.

Furthermore, in order for a non-resident of Korea to obtain the benefits of tax exemption on certain Korean source income (e.g., capital gains and interest) under an applicable tax treaty, Korean tax law requires such non-resident (or its agent) to submit to the payer of such Korean source income an application for a tax exemption along with a certificate of tax residency of such non-resident issued by a competent authority of the non-resident's country of tax residence, subject to certain exceptions. The payer of such Korean source income, in turn, is required to submit such application to the relevant district tax office by the ninth day of the month following the date of the first payment of such income.

For a non-resident of Korea to obtain the benefits of treaty-reduced tax rates on certain Korean source income (e.g., capital gains and interest) under an applicable tax treaty, Korean tax law requires such non-resident (or its agents) to submit to the payer of such Korean source income an application for treaty-reduced tax rates prior to receipt of such Korean source income; provided, however, that an

owner of ADSs who is a non-resident of Korea is not required to submit such application, if the Korean source income on the ADSs is paid through an account opened at the Korea Securities Depository by a foreign depository.

If Korean source income is paid to a non-resident through an overseas investment vehicle, such investment vehicle must obtain an application for tax exemption or reduced tax rates from each non-resident, who is the beneficial owner of such investment vehicle and submit to the payer of such Korean source incomes an overseas investment vehicle report, together with the applications for tax exemptions prepared by the non-resident beneficial owner. An application for tax exemption or reduced tax rates submitted by the non-resident remains effective for three years from submission, and if any material changes occur with respect to information provided in the application, an application reflecting such change must be newly submitted.

At present, Korea has not entered into any tax treaty relating to inheritance or gift tax.

### **United States Taxation**

This summary describes the material U.S. federal income tax consequences for a U.S. holder (as defined below) of owning our shares of common stock or ADSs. This summary applies to you only if you hold shares of common stock or ADSs as capital assets for tax purposes. This summary does not apply to you if you are a member of a class of holders subject to special rules, such as:

- a dealer in securities or currencies;
- a trader in securities that elects to use a mark-to-market method of accounting for your securities holdings;
- a bank;
- a life insurance company;
- a tax-exempt organization;
- a person that holds shares of common stock or ADSs that are a hedge or that are hedged against interest rate or currency risks;
- a person that holds shares of common stock or ADSs as part of a straddle or conversion transaction for tax purposes;
- a person whose functional currency for tax purposes is not the Dollar;
- a person that owns or is deemed to own 10% or more of any class of our stock; or
- a partnership that holds shares of common stock or ADSs, or a partner therein.

This summary is based on laws, treaties and regulatory interpretations in effect on the date hereof, all of which are subject to change, possibly on a retroactive basis.

Please consult your own tax advisers concerning the U.S. federal, state, local and other foreign tax consequences of purchasing, owning and disposing of shares of common stock or ADSs in your particular circumstances.

For purposes of this summary, you are a "U.S. holder" if you are a beneficial owner of a share of common stock or ADS that is:

- a citizen or resident of the United States;
- a U.S. domestic corporation; or
- subject to U.S. federal income tax on a net income basis with respect to income from the share of common stock or ADS.

## ***Shares of Common Stock and ADSs***

In general, if you are the beneficial owner of ADSs, you will be treated as the beneficial owner of the shares of common stock represented by those ADSs for U.S. federal income tax purposes, and no gain or loss will be recognized if you exchange an ADS for the shares of common stock represented by that ADS.

### *Dividends*

The gross amount of cash dividends that you receive (prior to deduction of Korean taxes) generally will be subject to U.S. federal income taxation as foreign source dividend income. Dividends paid in Won will be included in your income in a Dollar amount calculated by reference to the exchange rate in effect on the date of your (or, in the case of ADSs, the depository's) receipt of the dividend, regardless of whether the payment is in fact converted into Dollars. If such a dividend is converted into Dollars on the date of receipt, you generally should not be required to recognize foreign currency gain or loss in respect of the dividend income. U.S. holders should consult their own tax advisers regarding the treatment of any foreign currency gain or loss on any Won received by U.S. holders that are converted into Dollars on a date subsequent to receipt.

Subject to certain exceptions for short-term and hedged positions, the Dollar amount of dividends received by an individual U.S. holder with respect to the ADSs and common stock will be subject to taxation at a preferential rate applicable to long-term capital gains if the dividends are "qualified dividends." Dividends paid on the ADSs and common stock will be treated as qualified dividends if (i) we are eligible for the benefits of a comprehensive income tax treaty with the United States that the Internal Revenue Service has approved for the purposes of the qualified dividend rules and (ii) we were not, in the year prior to the year in which the dividend is paid, and are not, in the year in which the dividend is paid, a passive foreign investment company ("PFIC"). The income tax treaty between Korea and the United States ("Treaty") has been approved for the purposes of the qualified dividend rules, and we believe we are eligible for benefits under the Treaty. Based on our audited financial statements and relevant market and shareholder data, we believe that we were not treated as a PFIC for U.S. federal income tax purposes with respect to our 2014 or 2015 taxable year. In addition, based on our current expectations regarding the value and nature of our assets, the sources and nature of our income, and relevant market and shareholder data, we do not anticipate becoming a PFIC for our 2016 taxable year. You should consult your own tax advisers regarding the availability of the reduced dividend tax rate in the light of your own particular circumstances.

Distributions of additional shares in respect of shares of common stock or ADSs that are made as part of a pro-rata distribution to all of our shareholders generally will not be subject to U.S. federal income tax.

### *Sales and Other Dispositions*

For U.S. federal income tax purposes, you will recognize taxable gain or loss on any sale, exchange or other taxable disposition of common stock or ADSs equal to the difference, if any, between the amount realized on the sale or exchange and your adjusted tax basis in the common stock or ADSs. Any gain realized by a U.S. holder on the sale or other disposition of common stock or ADSs generally will be treated as U.S. source income for U.S. foreign tax credit purposes. This gain or loss will be capital gain or loss, and will be long-term capital gain or loss to the extent that the shares of common stock or ADSs sold or disposed of were held for more than one year. Your ability to offset capital losses against ordinary income is limited. Long-term capital gain recognized by an individual U.S. holder generally is subject to taxation at a reduced rate.

### *Foreign Tax Credit Considerations*

You should consult your own tax advisers to determine whether you are subject to any special rules that limit your ability to make effective use of foreign tax credits, including the possible adverse impact of failing to take advantage of benefits under the income tax treaty between the United States and Korea. If no such rules apply, you generally may claim a credit, up to any applicable reduced rates provided under the Treaty, against your U.S. federal income tax liability for Korean taxes withheld from dividends on shares of common stock or ADSs, so long as you have owned the shares of common stock or ADSs (and not entered into specified kinds of hedging transactions) for at least a 16-day period that includes the ex-dividend date. Instead of claiming a credit, you may, at your election, deduct such Korean taxes in computing your taxable income, provided that you do not elect to claim a foreign tax credit for any foreign income taxes paid or accrued for the relevant tax year and subject to generally applicable limitations under U.S. tax law. Foreign tax credits will not be allowed for withholding taxes imposed in respect of certain short-term or hedged positions in securities and may not be allowed in respect of arrangements in which your expected economic profit is insubstantial. You may not be able to use the foreign tax credit associated with any Korean withholding tax imposed on a distribution of additional shares that is not subject to U.S. federal income tax unless you can use the credit against U.S. federal income tax due on other foreign-source income.

Any Korean securities transaction tax or agriculture and fishery special tax that you pay will not be creditable for foreign tax credit purposes.

The calculation of foreign tax credits and, in the case of a U.S. holder that elects to deduct foreign taxes, the availability of deductions involves the application of complex rules that depend on a U.S. holder's particular circumstances. You should consult your own tax advisers regarding the creditability or deductibility of such taxes.

### ***U.S. Information Reporting and Backup Withholding Rules***

Payments in respect of shares of common stock or ADSs that are made within the United States or through certain U.S.-related financial intermediaries are subject to information reporting and may be subject to backup withholding unless the holder (1) is a corporation or other exempt recipient and demonstrates this when required or (2) provides a taxpayer identification number and certifies that no loss of exemption from backup withholding has occurred. Holders that are not U.S. persons generally are not subject to information reporting or backup withholding. However, such a holder may be required to provide a certification of its non-U.S. status in connection with payments received within the United States or through a U.S.-related financial intermediary.

### ***Item 10.F. Dividends and Paying Agents***

See "Item 8.A. Consolidated Statements and Other Financial Information — Dividends" above for information concerning our dividend policies and our payment of dividends. See "Item 10.B. Memorandum and Articles of Association — Dividends" for a discussion of the process by which dividends are paid on shares of our common stock. The paying agent for payment of our dividends on ADSs in the United States is the Citibank, N.A.

### ***Item 10.G. Statements by Experts***

Not applicable

### ***Item 10.H. Documents on Display***

We file reports, including annual reports on Form 20-F, and other information with the SEC pursuant to the rules and regulations of the SEC that apply to foreign private issuers. You may read

and copy any materials filed with the SEC at the Public Reference Rooms in Washington, D.C., New York, New York and Chicago, Illinois. You may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. Any filings we make electronically will be available to the public over the Internet at the SEC's web site at <http://www.sec.gov>.

#### **Item 10.I. *Subsidiary Information***

Not applicable

#### **Item 11. *Quantitative and Qualitative Disclosures about Market Risk***

We are exposed to foreign exchange rate and interest rate risk primarily associated with underlying liabilities, and to changes in the commodity prices of principal raw materials. Following evaluation of these positions, we selectively enter into derivative financial instruments to manage the related risk exposures, primarily with respect to foreign exchange rate and interest rate risks, which are entered into with major financial institutions in order to minimize the risk of credit loss. Our market risk management policy determines the market risk tolerance level, measuring period, controlling responsibilities, management procedures, hedging period and hedging ratio very specifically. We also prohibit all speculative hedging transactions and evaluate and manage foreign exchange exposures to receivables and payables.

None of our loss exposures related to derivative contracts are unlimited, and we do not believe that our net derivative positions could result in a material loss to our profit before income tax or total equity due to significant fluctuations of major currencies against the Korean Won. Due to the nature of our derivative contracts primarily as hedging instruments that manage foreign exchange risks, net gain or net loss on derivatives transactions and valuation of derivatives are typically offset by net loss or net gain on foreign currency transaction and translation. We recorded net loss on derivatives transactions of Won 26 billion and net loss on valuation of derivatives of Won 28 billion in 2014 and net gain on valuation of derivatives of Won 83 billion and net gain on derivatives transactions of Won 23 billion in 2015.

#### **Exchange Rate Risk**

Korea is our most important market and, therefore, a substantial portion of our cash flow is denominated in Won. Most of our exports are denominated in Dollars. Japan is also an important market for us, and we derive significant cash flow denominated in Yen. We are exposed to foreign exchange risk related to foreign currency denominated liabilities and anticipated foreign exchange payments. Anticipated foreign exchange payments, which represent a substantial sum and are mostly denominated in Dollars, relate primarily to imported raw material costs and freight costs. Foreign currency denominated liabilities relate primarily to foreign currency denominated debt.

We strive to naturally offset our foreign exchange risk by matching foreign currency receivables with our foreign currency payables and our overseas subsidiaries have sought to further mitigate the adverse impact of exchange rate fluctuations by conducting business transactions in the local currency of the respective market in which the transactions occur. In particular, POSCO Daewoo's exposure to fluctuations in exchange rates, including the Won/Dollar exchange rate, is limited because trading transactions typically involve matched purchase and sale contracts, which result in limited settlement exposure, and because POSCO Daewoo's contracts with domestic suppliers of products for export and with domestic purchasers of imported products are generally denominated in Dollars. Although the impact of exchange rate fluctuations is partially mitigated by such strategies, we and our subsidiaries, particularly POSCO Daewoo and POSCO E&C, also periodically enter into derivative contracts, primarily foreign currency swaps and forward exchange contracts, to further hedge some of our foreign exchange risks.

Our foreign currency exposure and changes in gain or loss resulting from a 10% foreign exchange rate change against the Korean Won are as follows:

	For the Years Ended December 31,					
	2013		2014		2015	
	Increase	Decrease	Increase	Decrease	Increase	Decrease
	(In billions of Won)					
US Dollars	₩ (502)	₩ 502	₩ (356)	₩ 356	₩ (166)	₩ 166
Japanese Yen	(125)	125	(96)	96	(22)	22
Euro	(4)	4	(30)	30	(97)	97

## Interest Rate Risk

We are also subject to market risk exposure arising from changing interest rates. In particular, we are exposed to interest rate risk on our existing floating rate borrowings and on additional debt financings that we may periodically undertake for various reasons, including capital expenditures and refinancing of our existing borrowings. A rise in interest rates will increase the cost of our existing variable rate borrowings. If interest rates on borrowings with floating rates had been 1% higher or lower with all other variables held constant, the impact on the gain or loss of the applicable period would be as follows:

	For the Years Ended December 31,		
	2013	2014	2015
	(In billions of Won)		
Increase or decrease in annual profit and net equity	₩ 106	₩ 102	₩ 118

A reduction of interest rates also increases the fair value of our debt portfolio, which is primarily of a fixed interest nature. From time to time, we use, to a limited extent, interest rate swaps to reduce interest rate volatility on some of our debt and manage our interest expense by achieving a balanced mixture of floating and fixed rate debt.

The following table summarizes the carrying amounts, fair values, principal cash flows by maturity date and weighted average interest rates of our short-term and long-term liabilities as of December 31, 2015 which are sensitive to exchange rates and/or interest rates. The information is presented in Won, which is our reporting currency.

	Maturities									
							December 31, 2015		December 31, 2014	
	2016	2017	2018	2019	2020	Thereafter	Total	Fair Value	Total	Fair Value
	(In billions of Won except rates)									
<b>Local currency:</b>										
Fixed rate	4,533	1,082	633	599	190	1,621	8,658	8,674	8,251	8,349
Average weighted rate <sup>(1)</sup>	3.07%	3.91%	3.80%	3.75%	2.80%	3.58%	3.37%		4.02%	
Variable rate	550	4	233	81	11	102	981	984	1,224	1,223
Average weighted rate <sup>(1)</sup>	2.96%	1.86%	3.01%	2.21%	3.57%	2.87%	2.91%		3.03%	
Sub-total	5,083	1,086	866	680	201	1,723	9,639	9,658	9,475	9,572
<b>Foreign currency, principally Dollars and Yen:</b>										
Fixed rate	1,714	238	389	2	998	1,471	4,812	4,994	8,407	8,669
Average weighted rate <sup>(1)</sup>	2.94%	3.65%	1.35%	0.48%	4.03%	4.19%	3.45%		2.84%	
Variable rate	5,452	492	969	63	831	2,962	10,769	10,762	9,546	9,515
Average weighted rate <sup>(1)</sup>	1.43%	1.84%	1.81%	1.65%	2.88%	3.36%	2.13%		2.27%	
Sub-total	7,166	730	1,358	65	1,829	4,433	15,581	15,756	17,953	18,184
<b>Total</b>	<b>12,249</b>	<b>1,816</b>	<b>2,224</b>	<b>745</b>	<b>2,030</b>	<b>6,156</b>	<b>25,220</b>	<b>25,414</b>	<b>27,428</b>	<b>27,756</b>

(1) Weighted average rates of the portfolio at the period end.

**Item 12. Description of Securities Other than Equity Securities**

Not applicable

**Item 12.A. Debt Securities**

Not applicable

**Item 12.B. Warrants and Rights**

Not applicable

**Item 12.C. Other Securities**

Not applicable

**Item 12.D. American Depositary Shares****Fees and Charges**

We switched our depository from The Bank of New York Mellon to Citibank, N.A. in July 2013. Holders of our ADSs are required to pay the following service fees to the depository:

Services	Fees
Issuance of ADSs upon deposit of shares	Up to \$5.00 per 100 ADSs issued
Delivery of deposited shares against surrender of ADSs	Up to \$5.00 per 100 ADSs surrendered
Distributions of cash dividends or other cash distributions	Up to \$5.00 per 100 ADSs held
Distribution of ADSs pursuant to (i) stock dividends or other free stock distributions, or (ii) exercise of rights to purchase additional ADSs	Up to \$5.00 per 100 ADSs held
Distribution of securities other than ADSs or rights to purchase additional ADSs	Up to \$5.00 per 100 ADSs held
General depository services	Up to \$5.00 per 100 ADSs held

Holders of our ADSs are also responsible for paying certain fees and expenses incurred by the depository such as:

- fees for the transfer and registration of shares charged by the registrar and transfer agent for the shares in Korea (i.e., upon deposit and withdrawal of shares);
- expenses incurred for converting foreign currency into Dollars;
- expenses for cable, telex and fax transmissions and for delivery of securities;
- taxes (including applicable interest and penalties) and other governmental charges;
- fees and expenses incurred in connection with compliance with exchange control regulations and other regulatory requirements; and
- fees and expenses incurred in connection with the delivery or servicing of shares on deposit.

Depository fees payable upon the issuance and surrender of ADSs are typically paid to the depository by the brokers (on behalf of their clients) receiving the newly issued ADSs from the depository and by the brokers (on behalf of their clients) delivering the ADSs to the depository for surrender. The brokers in turn charge these fees to their clients. Depository fees payable in connection with distributions of cash or securities to ADS holders and the depository services fee are charged by the depository to the holders of record of ADSs as of the applicable ADS record date.

The depositary fees payable for cash distributions are generally deducted from the cash being distributed. In the case of distributions other than cash (i.e., stock dividend, rights), the depositary charges the applicable fee to the ADS record date holders concurrent with the distribution. In the case of ADSs registered in the name of the investor (whether certificated or uncertificated in direct registration), the depositary sends invoices to the applicable record date ADS holders. In the case of ADSs held in brokerage and custodian accounts (via the Korea Securities Depository, or KSD), the depositary generally collects its fees through the systems provided by KSD (whose nominee is the registered holder of the ADSs held in KSD) from the brokers and custodians holding ADSs in their KSD accounts. The brokers and custodians who hold their clients' ADSs in KSD accounts in turn charge their clients' accounts the amount of the fees paid to the depositary.

In the event of refusal to pay the depositary fees, the depositary may, under the terms of the deposit agreement, refuse the requested service until payment is received or may set off the amount of the depositary fees from any distribution to be made to such holder of ADSs.

The fees and charges that holders of our ADSs may be required to pay may vary over time and may be changed by us and by the depositary. Holders of our ADSs will receive prior notice of such changes.

### **Fees and Payments from the Depositary to Us**

In 2015, we received the following payments from the depositary, net of tax:

Reimbursement of expenses for preparation of SEC filing and submission: .....	\$109,663
Reimbursement of listing fees: .....	\$133,685
Reimbursement of legal fees: .....	\$ 55,443
Reimbursement of proxy process expenses (printing, postage and distribution): .....	\$312,276
Contributions toward our investor relations efforts: .....	\$121,813
Miscellaneous: .....	<u>\$ 37,119</u>
Total: .....	<u><u>\$769,999</u></u>

In addition, as part of its service to us, the depositary waives its fees for the standard costs associated with the administration of the ADS facility, associated operating expenses, investor relations advice and access to an internet-based tool used in our investor relations activities.

## **PART II**

### **Item 13. *Defaults, Dividend Arrearages and Delinquencies***

Not applicable

### **Item 14. *Material Modifications to the Rights of Security Holders and Use of Proceeds***

Not applicable

### **Item 15. *Controls and Procedures***

#### **a. Disclosure Controls and Procedures**

Our management has evaluated, with the participation of our Chief Executive Officer and Chief Financial Officer, the effectiveness of our disclosure controls and procedures, as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, as of December 31, 2015. There are inherent limitations to the effectiveness of any system of disclosure controls and procedures, including

the possibility of human error and the circumvention or overriding of the controls and procedures. Accordingly, even effective disclosure controls and procedures can only provide reasonable assurance of achieving their control objectives. Based upon our evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as of the end of the period covered by this report. Our disclosure controls and procedures are designed to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the Commission's rules and forms, and that it is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

#### **b. Management's Annual Report on Internal Control over Financial Reporting**

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Our internal control over financial reporting is a process designed by, and under the supervision of, our principal executive, principal operating and principal financial officers, and effected by our board of directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

Our internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of our assets; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that our receipts and expenditures are being made only in accordance with authorizations of our management and directors; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of our assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting is not intended to provide absolute assurance that a misstatement of our financial statements would be prevented or detected. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Our management has completed an assessment of the effectiveness of our internal control over financial reporting as of December 31, 2015 based on criteria in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this assessment, management concluded that our internal control over financial reporting was effective as of December 31, 2015.

#### **c. Report of the Independent Registered Public Accounting Firm**

KPMG Samjong Accounting Corp. ("KPMG Samjong"), an independent registered public accounting firm, which audited our consolidated financial statements as of, and for the year ended, December 31, 2015, has issued an audit report on the effectiveness of our internal control over financial reporting, which report is included in Item 18 of this Form 20-F.

#### **d. Changes in Internal Control Over Financial Reporting**

There has been no change in our internal control over financial reporting that occurred during the year covered by this annual report that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting. Our adoption of Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission did not have, and is not reasonably likely to have, any material effect on our internal control over financial reporting.

**Item 16. [Reserved]**

**Item 16.A. Audit Committee Financial Expert**

The board of directors has approved the members of our audit committee. Kim, Il-Sup is an audit committee financial expert and is independent within the meaning of applicable SEC rules.

**Item 16.B. Code of Ethics**

We have adopted a code of business conduct and ethics, as defined in Item 16B. of Form 20-F under the Securities Exchange Act of 1934, as amended. Our code of business conduct and ethics, called Code of Conduct, applies to our chief executive officer and chief financial officer, as well as to our directors, other officers and employees. Our Code of Conduct is available on our web site at [www.posco.com](http://www.posco.com). If we amend the provisions of our Code of Conduct that apply to our chief executive officer or chief financial officer and persons performing similar functions, or if we grant any waiver of such provisions, we will disclose such amendment or waiver on our web site at the same address.

**Item 16.C. Principal Accountant Fees and Services**

**Audit and Non-Audit Fees**

The following table sets forth the fees billed to us by our independent auditor, KPMG, in 2013, 2014 and 2015:

	For the Year Ended December 31,		
	2013	2014	2015
	(In millions of Won)		
Audit fees .....	₩5,356	₩5,481	₩5,491
Audit-related fees .....	90	—	—
Tax fees .....	1,110	1,082	974
Other fees .....	25	16	3
<b>Total fees</b> .....	<b>₩6,581</b>	<b>₩6,579</b>	<b>₩6,468</b>

Audit fees in 2015 as set forth in the above table are the aggregate fees billed by KPMG in connection with the audit of our annual financial statements and the annual financial statements of other related companies and review of interim financial statements.

Audit-related fees in 2013 as set forth in the above table are the aggregate fees billed by KPMG for comfort letter services related to our securities offering.

Tax fees in 2015 as set forth in the above table are fees billed by KPMG for our tax compliance and tax planning, as well as compliance related to transfer pricing.

Other fees in 2015 as set forth in the above table are fees billed by KPMG primarily in relation to certifications in connection with forward contracts.

**Audit Committee Pre-Approval Policies and Procedures**

Our audit committee has not established pre-approval policies and procedures for the engagement of our independent auditors for services. Our audit committee expressly approves on a case-by-case basis any engagement of our independent auditors for audit and non-audit services provided to our subsidiaries or us.

**Item 16.D. Exemptions from the Listing Standards for Audit Committees**

Not applicable

### Item 16.E. Purchases of Equity Securities by the Issuer and Affiliated Purchasers

The following table sets forth the repurchases of common shares by us or any affiliated purchasers during the fiscal year ended December 31, 2015:

Period	Total Number of Shares Purchased	Average Price Paid Per Share (In Won)	Total Number of Shares Purchased as Part of Publicly Announced Plans	Maximum Number of Shares that May Yet Be Purchased Under the Plans
January 1 to January 31	—	—	—	—
February 1 to February 29	—	—	—	—
March 1 to March 31	—	—	—	—
April 1 to April 30	—	—	—	—
May 1 to May 31	—	—	—	—
June 1 to June 30	—	—	—	—
July 1 to July 31	—	—	—	—
August 1 to August 31	—	—	—	—
September 1 to September 30	—	—	—	—
October 1 to October 31	—	—	—	—
November 1 to November 30	—	—	—	—
December 1 to December 31	—	—	—	—
<b>Total</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>

### Item 16.F. Change in Registrant's Certifying Accountant

Not applicable

### Item 16.G. Corporate Governance

Pursuant to the rules of the New York Stock Exchange applicable to foreign private issuers like us that are listed on the New York Stock Exchange, we are required to disclose significant differences between the New York Stock Exchange's corporate governance standards and those that we follow under Korean law and in accordance with our own internal procedures. The following is a summary of such significant differences.

NYSE Corporate Governance Standards	POSCO's Corporate Governance Practice
<p><b>Director Independence</b></p> <p>Listed companies must have a majority of independent directors</p>	<p>Our articles of incorporation provide that our board of directors must comprise no less than a majority of Outside Directors. Our Outside Directors must meet the criteria for outside directorship set forth under the Korean Securities and Exchange Act.</p> <p>The majority of our board of directors is independent (as defined in accordance with the New York Stock Exchange's standards), and 7 out of 12 directors are Outside Directors. Under our articles of incorporation, we may have up to five Inside Directors and seven Outside Directors.</p>
<p><b>Nomination/Corporate Governance Committee</b></p> <p>A nomination/corporate governance committee of independent directors is required. The committee must have a charter that addresses the purpose, responsibilities (including development of corporate governance guidelines) and annual performance evaluation of the committee</p>	<p>We have not established a separate nomination corporate governance committee. However, we maintain a Director Candidate Recommendation Committee composed of three Outside Directors and one Inside Director.</p>

**Compensation Committee**

A compensation committee of independent directors is required. The committee must have a charter that addresses the purpose, responsibilities and annual performance evaluation of the committee. The charter must be made available on the company's website. In addition, in accordance with the U.S. Securities and Exchange Commission rules adopted pursuant to Section 952 of the Dodd-Frank Act, the New York Stock Exchange listing standards were amended to expand the factors relevant in determining whether a committee member has a relationship with the company that will materially affect that member's duties to the compensation committee.

Additionally, the committee may obtain or retain the advice of a compensation adviser only after taking into consideration all factors relevant to determining that adviser's independence from management

**Executive Session**

Non-management directors must meet in regularly scheduled executive sessions without management. Independent directors should meet alone in an executive session at least once a year

**Audit Committee**

Listed companies must have an audit committee that satisfies the independence and other requirements of Rule 10A-3 under the Exchange Act. All members must be independent. The committee must have a charter addressing the committee's purpose, an annual performance evaluation of the committee, and the duties and responsibilities of the committee. The charter must be made available on the company's website

**Audit Committee Additional Requirements**

Listed companies must have an audit committee that is composed of at least three directors.

**Shareholder Approval of Equity Compensation Plan**

Listed companies must allow their shareholders to exercise their voting rights with respect to any material revision to the company's equity compensation plan

**Corporate Governance Guidelines**

Listed companies must adopt and disclose corporate governance guidelines

**Code of Business Conduct and Ethics**

Listed companies must adopt and disclose a code of business conduct and ethics for directors, officers and employees, and promptly disclose any waivers of the code for directors or executive officers

We maintain an Evaluation and Compensation Committee composed of four Outside Directors.

Our Outside Directors hold meetings solely attended by Outside Directors in accordance with operation guidelines of our board of directors.

We maintain an Audit Committee comprised of three Outside Directors who meet the applicable independence criteria set forth under Rule 10A-3 under the Exchange Act.

Our Audit Committee has three members, as described above.

We currently have an Employee Stock Ownership Program. We previously provided a stock options program for officers and directors, as another equity compensation plan. However, during our annual shareholders' meeting in February 2006, our shareholders resolved to terminate the stock option program and amended our articles of incorporation to delete the provision allowing grant of stock options to officers and directors. Consequently, since February 24, 2006, we have not granted stock options to officers and directors. Matters related to the Employee Stock Ownership Program are not subject to shareholders' approval under Korean law.

We have adopted a Corporate Governance Charter setting forth our practices with respect to relevant corporate governance matters. Our Corporate Governance Charter is in compliance with Korean law but does not meet all requirements established by the New York Stock Exchange for U.S. companies listed on the exchange. A copy of our Corporate Governance Charter is available on our website at [www.posco.com](http://www.posco.com).

We have adopted a Code of Conduct for all directors, officers and employees. A copy of our Code of Conduct is available on our website at [www.posco.com](http://www.posco.com).

**Item 16.H. Mine Safety Disclosure**

Not applicable

**PART III**

**Item 17. Financial Statements**

Not applicable

**Item 18. Financial Statements**

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**Item 19. Exhibits**

- 1.1 — Articles of Incorporation of POSCO (English translation)
- 2.1 — Form of Common Stock Certificate (including English translation) (incorporated by  
reference to Exhibit 4.3 to the Registrant's Registration Statement No. 333-189473)\*
- 2.2 — Form of Deposit Agreement (including Form of American Depositary Receipts)  
(incorporated by reference to the Registrant's Registration Statement (File No. 33-84318)  
on Form F-6)\*
- 8.1 — List of consolidated subsidiaries
- 12.1 — Certification pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 12.2 — Certification pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 13.1 — Certification pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

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\* Filed previously

## Report of Independent Registered Public Accounting Firm

The Board of Directors and Shareholders  
POSCO:

We have audited the accompanying consolidated statements of financial position of POSCO and subsidiaries as of December 31, 2014 and 2015 and the related consolidated statements of comprehensive income, changes in equity and cash flows for each of the years in the three-year period ended December 31, 2015. These consolidated financial statements are the responsibility of POSCO's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the consolidated financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of POSCO and subsidiaries as of December 31, 2014 and 2015 and the results of their operations and their cash flows for each of the years in the three-year period ended December 31, 2015, in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the effectiveness of POSCO's internal control over financial reporting as of December 31, 2015, based on criteria established in Internal Control-Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission, and our report dated April 27, 2016 expressed an unqualified opinion on the effectiveness of POSCO's internal control over financial reporting.

/s/ KPMG Samjong Accounting Corp.  
Seoul, Korea  
April 27, 2016

## **Report of Independent Registered Public Accounting Firm on Internal Control over Financial Reporting**

The Board of Directors and Stockholders  
POSCO:

We have audited POSCO's internal control over financial reporting as of December 31, 2015, based on criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. POSCO's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on POSCO's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audit also included performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, POSCO maintained, in all material respects, effective internal control over financial reporting as of December 31, 2015, based on criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated statements of financial position of POSCO and subsidiaries as of December 31, 2014 and 2015, and the related consolidated statements of comprehensive income, changes in equity and cash flows for each of the years in the three-year period ended December 31, 2015, and our report dated April 27, 2016 expressed an unqualified opinion on those consolidated financial statements.

/s/ KPMG Samjong Accounting Corp.  
Seoul, Korea  
April 27, 2016

**POSCO and Subsidiaries**  
**Consolidated Statements of Financial Position**  
**As of December 31, 2014 and 2015**

	Notes	December 31, 2014	December 31, 2015
(in millions of Won)			
<b>Assets</b>			
Cash and cash equivalents	4,5,23	₩ 3,811,202	4,870,185
Trade accounts and notes receivable, net	6,17,23,29,37	11,664,587	9,575,264
Other receivables, net	7,23	1,956,216	1,679,879
Other short-term financial assets	8,23,37	1,462,920	3,910,387
Inventories	9	11,173,343	8,566,882
Current income tax assets	35	36,147	33,765
Assets held for sale	10	2,127,087	57,281
Other current assets	16	976,425	808,252
<b>Total current assets</b>		<u>33,207,927</u>	<u>29,501,895</u>
Long-term trade accounts and notes receivable, net	6,23	79,336	120,338
Other receivables, net	7,23	1,144,160	863,258
Other long-term financial assets	8,23	2,455,900	2,341,460
Investments in associates and joint ventures	11	4,060,507	3,945,333
Investment property, net	13	1,055,592	1,084,292
Property, plant and equipment, net	14	35,241,195	34,522,855
Intangible assets, net	15	6,884,989	6,405,754
Deferred tax assets	35	1,206,408	1,333,785
Other long-term assets	16	507,549	629,000
<b>Total non-current assets</b>		<u>52,635,636</u>	<u>51,246,075</u>
<b>Total assets</b>		<u>₩85,843,563</u>	<u>80,747,970</u>

See accompanying notes to the consolidated financial statements.

**POSCO and Subsidiaries**  
**Consolidated Statements of Financial Position, Continued**  
**As of December 31, 2014 and 2015**

	Notes	December 31, 2014	December 31, 2015
(in millions of Won)			
<b>Liabilities</b>			
Trade accounts and notes payable	23,37	₩ 3,950,786	3,125,348
Short-term borrowings and current installments of long-term borrowings	4,17,23	12,195,484	12,371,032
Other payables	18,23	2,194,713	2,129,093
Other short-term financial liabilities	19,23,37	111,637	202,117
Current income tax liabilities	35	453,613	377,962
Liabilities of disposal group held for sale	10	590,982	34,202
Provisions	20	150,030	102,320
Other current liabilities	22,29	2,727,793	2,011,452
<b>Total current liabilities</b>		<u>22,375,038</u>	<u>20,353,526</u>
Long-term trade accounts and notes payable	23,37	88,469	11,098
Long-term borrowings, excluding current installments	4,17,23	15,232,773	12,849,199
Other payables	18,23	169,986	134,470
Other long-term financial liabilities	19,23	91,095	54,696
Defined benefit liabilities, net	21	290,325	182,025
Deferred tax liabilities	35	1,832,260	1,676,658
Long-term provisions	20	223,239	221,692
Other long-term liabilities	22	282,982	251,405
<b>Total non-current liabilities</b>		<u>18,211,129</u>	<u>15,381,243</u>
<b>Total liabilities</b>		<u>40,586,167</u>	<u>35,734,769</u>
<b>Equity</b>			
Share capital	24	482,403	482,403
Capital surplus	24	1,083,718	1,393,079
Hybrid bonds	25	996,919	996,919
Reserves	26	(408,773)	(594,756)
Treasury shares	27	(1,534,457)	(1,533,898)
Retained earnings		40,937,148	40,461,496
<b>Equity attributable to owners of the controlling company</b>		<u>41,556,958</u>	<u>41,205,243</u>
<b>Non-controlling interests</b>	25	3,700,438	3,807,958
<b>Total equity</b>		<u>45,257,396</u>	<u>45,013,201</u>
<b>Total liabilities and equity</b>		<u>₩ 85,843,563</u>	<u>80,747,970</u>

See accompanying notes to the consolidated financial statements.

**POSCO and Subsidiaries**  
**Consolidated Statements of Comprehensive Income (Loss)**  
**For the years ended December 31, 2013, 2014 and 2015**

	Notes	2013	2014	2015
		(in millions of Won, except per share information)		
Revenue .....	28,29,37	₩ 61,765,743	64,758,625	58,522,268
Cost of sales .....	29,31,34,37	(54,913,816)	(57,465,485)	(52,018,434)
<b>Gross profit</b> .....		6,851,927	7,293,140	6,503,834
Selling and administrative expenses .....	30,34			
Administrative expenses .....	31	(2,231,805)	(2,309,756)	(2,395,248)
Selling expenses .....		(1,632,120)	(1,760,118)	(1,728,956)
Other operating income and expenses .....	32,37			
Other operating income .....		229,073	269,406	549,048
Other operating expenses .....	34	(650,806)	(979,674)	(1,442,298)
<b>Operating profit</b> .....		2,566,269	2,512,998	1,486,380
Share of loss of equity-accounted investees, net .....	11	(179,809)	(299,893)	(506,054)
Finance income and costs .....	23,33			
Finance income .....		2,380,838	2,396,762	2,557,073
Finance costs .....		(2,829,253)	(3,221,987)	(3,387,054)
<b>Profit before income taxes</b> .....		1,938,045	1,387,880	150,345
Income tax expense .....	35	(589,029)	(823,841)	(266,560)
<b>Profit (loss)</b> .....		1,349,016	564,039	(116,215)
<b>Other comprehensive income (loss)</b>				
Items that will never be reclassified subsequently to profit or loss :				
Remeasurements of defined benefit pension plans .....	21	6,224	(75,101)	41,954
Items that are or may be reclassified subsequently to profit or loss :				
Capital adjustment arising from investments in equity-method investees .....		(183,836)	(45,754)	(82,509)
Net changes in the unrealized fair value of available-for-sale investments .....	23	412,346	(333,891)	(187,854)
Foreign currency translation differences .....		(220,464)	(836)	66,280
<b>Other comprehensive income (loss), net of tax</b> .....		14,270	(455,582)	(162,129)
<b>Total comprehensive income (loss)</b> .....		₩ 1,363,286	108,457	(278,344)
<b>Profit (loss) attributable to :</b>				
Owners of the controlling company .....		₩ 1,370,878	632,706	171,494
Non-controlling interests .....		(21,862)	(68,667)	(287,709)
<b>Profit (loss)</b> .....		₩ 1,349,016	564,039	(116,215)
<b>Total comprehensive income (loss) attributable to :</b>				
Owners of the controlling company .....		₩ 1,438,744	181,525	23,864
Non-controlling interests .....		(75,458)	(73,068)	(302,208)
<b>Total comprehensive income (loss)</b> .....		₩ 1,363,286	108,457	(278,344)
<b>Basic and diluted earnings per share (in Won)</b> .....	36	17,338	7,514	1,731

See accompanying notes to the consolidated financial statements.

**POSCO and Subsidiaries**  
**Consolidated Statements of Changes in Equity**  
**For the years ended December 31, 2013, 2014 and 2015**

	Attributable to owners of the controlling company							Non-controlling interests	Total
	Share capital	Capital surplus	Hybrid bonds	Reserves	Treasury shares (in millions of Won)	Retained earnings	Sub total		
<b>Balance as of January 1, 2013</b> .....	₩482,403	1,104,814	—	(88,150)	(2,391,406)	40,314,982	39,422,643	2,971,591	42,394,234
<b>Comprehensive income (loss):</b>									
Profit (loss) .....	—	—	—	—	—	1,370,878	1,370,878	(21,862)	1,349,016
Other comprehensive income (loss) Remeasurements of defined benefit pension plans, net of tax .....	—	—	—	—	—	3,039	3,039	3,185	6,224
Capital adjustment arising from investments in equity-method investees, net of tax .....	—	—	—	(166,787)	—	—	(166,787)	(17,049)	(183,836)
Net changes in the unrealized fair value of available-for-sale investments, net of tax .....	—	—	—	412,453	—	—	412,453	(107)	412,346
Foreign currency translation differences, net of tax .....	—	—	—	(180,839)	—	—	(180,839)	(39,625)	(220,464)
<b>Total comprehensive income (loss)</b> .....	—	—	—	64,827	—	1,373,917	1,438,744	(75,458)	1,363,286
<b>Transactions with owners of the controlling company, recognized directly in equity:</b>									
Year-end dividends .....	—	—	—	—	—	(463,467)	(463,467)	(30,544)	(494,011)
Interim dividends .....	—	—	—	—	—	(154,490)	(154,490)	—	(154,490)
Changes in subsidiaries .....	—	—	—	—	—	—	—	40,506	40,506
Changes in ownership interests in subsidiaries .....	—	(31,417)	—	—	—	—	(31,417)	373,963	342,546
Issue of hybrid bonds .....	—	—	996,919	—	—	—	996,919	498,468	1,495,387
Interest of hybrid bonds .....	—	—	—	—	—	(24,161)	(24,161)	(6,228)	(30,389)
Disposal of hybrid bonds .....	—	5,348	—	—	812,282	—	817,630	—	817,630
Others .....	—	(479)	—	247	—	6,851	6,619	(636)	5,983
<b>Total transactions with owners of the controlling company</b> .....	—	(26,548)	996,919	247	812,282	(635,267)	1,147,633	875,529	2,023,162
<b>Balance as of December 31, 2013</b> .....	₩482,403	1,078,266	996,919	(23,076)	(1,579,124)	41,053,632	42,009,020	3,771,662	45,780,682

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See accompanying notes to the consolidated financial statements.

**POSCO and Subsidiaries**  
**Consolidated Statements of Changes in Equity, Continued**  
**For the years ended December 31, 2013, 2014 and 2015**

	Attributable to owners of the controlling company						Total		
	Share capital	Capital surplus	Hybrid bond	Reserves	Treasury shares	Retained earnings		Sub total	Non-controlling interests
	(in millions of Won)								
<b>Balance as of January 1, 2014</b>	₩482,403	1,078,266	996,919	(23,076)	(1,579,124)	41,053,632	42,009,020	3,771,662	45,780,682
<b>Comprehensive income (loss):</b>									
Profit (loss)	—	—	—	—	—	632,706	632,706	(68,667)	564,039
Other comprehensive income (loss)	—	—	—	—	—	(65,152)	(65,152)	(9,949)	(75,101)
Remeasurements of defined benefit pension plans, net of tax	—	—	—	—	—	(65,152)	(65,152)	(9,949)	(75,101)
Capital adjustment arising from investments in equity-method investees, net of tax	—	—	—	(50,920)	—	—	(50,920)	5,166	(45,754)
Net changes in the unrealized fair value of available-for-sale investments, net of tax	—	—	—	(335,626)	—	—	(335,626)	1,735	(333,891)
Foreign currency translation differences, net of tax	—	—	—	517	—	—	517	(1,353)	(836)
<b>Total comprehensive income (loss)</b>	—	—	—	(386,029)	—	567,554	181,525	(73,068)	108,457
<b>Transactions with owners of the controlling company, Recognized directly in equity:</b>									
Year-end dividends	—	—	—	—	—	(478,702)	(478,702)	(32,887)	(511,589)
Interim dividends	—	—	—	—	—	(159,568)	(159,568)	(76,854)	(236,422)
Changes in subsidiaries	—	—	—	—	—	—	—	91,551	91,551
Changes in ownership interests in subsidiaries	—	(9,401)	—	—	—	(9,401)	(9,401)	44,265	34,864
Interest of hybrid bonds	—	—	—	—	—	(43,600)	(43,600)	(26,175)	(69,775)
Disposal of treasury shares	—	14,576	—	—	44,667	—	59,243	—	59,243
Others	—	277	—	332	—	(2,168)	(1,559)	1,944	385
<b>Total transactions with owners of the controlling company</b>	—	5,452	—	332	44,667	(684,038)	(633,587)	1,844	(631,743)
<b>Balance as of December 31, 2014</b>	₩482,403	1,083,718	996,919	(408,773)	(1,534,457)	40,937,148	41,556,958	3,700,438	45,257,396

See accompanying notes to the consolidated financial statements.

**POSCO and Subsidiaries**  
**Consolidated Statements of Changes in Equity, Continued**  
**For the years ended December 31, 2013, 2014 and 2015**

	Attributable to owners of the controlling company						Non-controlling interests	Total	
	Share capital	Capital surplus	Hybrid bond	Reserves	Treasury shares	Retained earnings			Sub total
Balance as of January 1, 2015	₩482,403	1,083,718	996,919	(408,773)	(1,534,457)	40,937,148	41,556,958	3,700,438	45,257,396
<b>Comprehensive income (loss):</b>						<b>(in millions of Won)</b>			
Profit (loss)	—	—	—	—	—	171,494	171,494	(287,709)	(116,215)
Other comprehensive income (loss)									
Remeasurements of defined benefit pension plans, net of tax	—	—	—	—	—	38,771	38,771	3,183	41,954
Capital adjustment arising from investments in equity-method investees, net of tax	—	—	—	(81,418)	—	—	(81,418)	(1,091)	(82,509)
Net changes in the unrealized fair value of available-for-sale investments, net of tax	—	—	—	(183,077)	—	—	(183,077)	(4,777)	(187,854)
Foreign currency translation differences, net of tax	—	—	—	78,094	—	—	78,094	(11,814)	66,280
<b>Total comprehensive income (loss)</b>	—	—	—	(186,401)	—	210,265	23,864	(302,208)	(278,344)
<b>Transactions with owners of the controlling company, Recognized directly in equity:</b>									
Year-end dividends	—	—	—	—	—	(479,958)	(479,958)	(32,410)	(512,368)
Interim dividends	—	—	—	—	—	(159,987)	(159,987)	(67,700)	(227,687)
Changes in subsidiaries	—	—	—	—	—	—	—	(311,548)	(311,548)
Changes in ownership interests in subsidiaries	—	310,485	—	—	—	—	310,485	844,769	1,155,254
Interest of hybrid bonds	—	(35)	—	—	—	(43,574)	(43,574)	(24,187)	(67,761)
Disposal of treasury shares	—	(1,089)	—	—	559	—	524	—	524
Others	—	—	—	418	—	(2,398)	(3,069)	804	(2,265)
<b>Total transactions with owners of the controlling company</b>	—	309,361	—	418	559	(685,917)	(375,579)	409,728	34,149
<b>Balance as of December 31, 2015</b>	₩482,403	1,393,079	996,919	(594,756)	(1,533,898)	40,461,496	41,205,243	3,807,958	45,013,201

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See accompanying notes to the consolidated financial statements.

**POSCO and Subsidiaries**  
**Consolidated Statements of Cash Flows**  
**For the years ended December 31, 2013, 2014 and 2015**

	Notes	2013	2014	2015
(in millions of Won)				
<b>Cash flows from operating activities</b>				
Profit (loss) .....		₩ 1,349,016	564,039	(116,215)
Adjustments for:				
Depreciation .....		2,505,536	2,894,609	2,836,663
Amortization .....		180,014	343,940	381,583
Finance income .....		(1,012,281)	(1,046,718)	(1,165,340)
Finance costs .....		1,585,778	1,801,015	1,852,862
Income tax expense .....		589,029	823,841	266,560
Gain on disposal of property, plant and equipment .....		(14,177)	(15,039)	(22,730)
Loss on disposal of property, plant and equipment .....		121,133	50,006	101,732
Impairment loss on property, plant and equipment .....		9,742	64,833	136,269
Share of loss of equity-accounted investees .....		179,809	299,893	506,054
Costs for defined benefit plans .....		247,748	237,886	245,402
Contribution to provisions .....		111,364	245,470	86,903
Bad debt expenses .....		201,185	205,306	337,235
Loss on valuation of inventories .....		49,172	41,713	152,952
Impairment loss on goodwill and intangible assets .....		125,316	55,220	161,412
Gain on disposals of assets held for sale .....		(101,611)	(48,232)	(227,956)
Loss on disposals of assets held for sale .....		26,498	14	190,357
Impairment loss on assets held for sale .....		1,814	17,205	133,547
Others, net .....		4,581	56,876	(21,643)
		4,810,650	6,027,838	5,951,862
Changes in operating assets and liabilities .....	39	(108,300)	(1,853,782)	2,784,452
Interest received .....		227,989	238,817	198,193
Interest paid .....		(797,316)	(882,183)	(831,566)
Dividends received .....		193,008	114,694	237,715
Income taxes paid .....		(816,912)	(797,324)	(622,612)
Net cash provided by operating activities .....		₩ 4,858,135	3,412,099	7,601,829
<b>Cash flows from investing activities</b>				
Acquisitions of short-term financial instruments .....	40	₩(4,449,312)	(3,096,602)	(13,037,990)
Proceeds from disposal of short-term financial instruments .....		3,901,527	4,635,120	10,595,379
Acquisition of long-term financial instruments .....		(123,703)	(24,683)	(34,733)
Increase in loans .....		(575,343)	(361,671)	(295,689)
Collection of loans .....		417,971	76,717	308,906
Acquisitions of available-for-sale investments .....		(309,469)	(75,582)	(87,824)
Proceeds from disposal of available-for-sale investments .....		269,363	252,056	308,161
Acquisitions of investments of equity-accounted investees .....		(1,076,763)	(702,989)	(77,155)
Proceeds from disposal of investments of equity-accounted investees .....		89,533	21,359	11,813
Acquisitions of property, plant and equipment .....		(6,569,613)	(3,505,549)	(2,560,244)
Proceeds from disposal of property, plant and equipment .....		82,153	62,829	59,031
Acquisitions of investment property .....		(20,945)	(406,603)	(61,478)
Proceeds from disposal of investment property .....		8,464	43,167	1,120
Acquisitions of intangible assets .....		(543,666)	(343,804)	(289,148)
Proceeds from disposal of intangible assets .....		5,429	9,043	12,832
Proceeds from disposal of assets held for sale .....		126,809	1,291	127,133
Cash received from (paid in) acquisition of business, net of cash acquired .....		5,729	(388,578)	—
Cash received from disposal of business, net of cash transferred .....		5,962	48,949	469,576
Other, net .....		4,204	10,348	15,634
Net cash used in investing activities .....		(8,751,670)	(3,745,182)	(4,534,676)

See accompanying notes to the consolidated financial statements.

**POSCO and Subsidiaries**  
**Consolidated Statements of Cash Flows, Continued**  
**For the years ended December 31, 2013, 2014 and 2015**

	Notes	2013	2014	2015
		(in millions of Won)		
<b>Cash flows from financing activities</b>	40			
Proceeds from borrowings . . . . .		5,098,702	2,522,495	1,779,097
Repayment of borrowings . . . . .		(2,845,957)	(2,802,150)	(3,509,970)
Proceeds from (repayment of) short-term borrowings, net . . . .		86,475	1,037,912	(846,230)
Payment of cash dividends . . . . .		(648,580)	(677,000)	(822,570)
Proceeds from issuance of hybrid bonds . . . . .		1,495,387	—	—
Payment of interest of hybrid bonds . . . . .		(26,088)	(69,713)	(67,725)
Capital contribution from non-controlling interests and proceeds from disposal of subsidiary while maintaining control . . . . .		385,122	54,066	1,260,053
Capital deduction from non-controlling interests and additional acquisition of interests in subsidiaries . . . . .		(22,078)	—	(10,810)
Proceeds from disposal of treasury shares . . . . .		14,019	43,188	—
Other, net . . . . .		(4,666)	26,314	(23,446)
Net cash provided by (used in) financing activities . . . . .		<u>3,532,336</u>	<u>135,112</u>	<u>(2,241,601)</u>
Effect of exchange rate fluctuation on cash held . . . . .		(110,765)	11,545	23,496
<b>Net increase (decrease) in cash and cash equivalents</b> . . . . .		(471,964)	(186,426)	849,048
<b>Cash and cash equivalents at beginning of the period</b> . . . . .		4,680,526	4,208,562	4,022,136
<b>Cash and cash equivalents at end of the period</b> . . . . .	5	<u>₩ 4,208,562</u>	<u>4,022,136</u>	<u>4,871,184</u>

See accompanying notes to the consolidated financial statements.

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements

### As of December 31, 2013, 2014 and 2015

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#### 1. General Information

General information about POSCO, its 42 domestic subsidiaries including POSCO Engineering & Construction Co., Ltd., 171 foreign subsidiaries including POSCO America Corporation (collectively “the Company”) and its 98 associates and joint ventures are as follows:

(a) The controlling company

POSCO, the controlling company, was incorporated on April 1, 1968, under the Commercial Code of the Republic of Korea to manufacture and sell steel rolled products and plates in the domestic and foreign markets.

The shares of POSCO have been listed on the Korea Exchange since 1988. POSCO owns and operates two steel plants (Pohang and Gwangyang) and one office in Korea and it also operates internationally through five of its overseas liaison offices.

As of December 31, 2015, POSCO’s shareholders are as follows:

Shareholder’s name	Number of shares	Ownership (%)
National Pension Service	7,885,065	9.04
Nippon Steel & Sumitomo Metal Corporation (*1)	4,394,712	5.04
Pohang University of Science and Technology	1,905,000	2.18
Government of Singapore Investment Corporation Pte Ltd	1,862,625	2.14
KB Financial Group Inc. and subsidiaries (*2)	1,828,207	2.10
Others	69,311,226	79.50
	<u>87,186,835</u>	<u>100.00</u>

(\*1) Nippon Steel & Sumitomo Metal Corporation owns American Depository Receipts (ADRs) of POSCO, each of which represents 0.25 share of POSCO’s common share which has par value of ₩5,000 per share.

(\*2) Includes shares held by subsidiaries pursuant to Articles of Incorporation.

As of December 31, 2015, the shares of POSCO are listed on the Korea Exchange, while its depository shares are listed on the New York Stock Exchanges.

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements, Continued

### As of December 31, 2013, 2014 and 2015

#### (b) Consolidated subsidiaries

Details of consolidated subsidiaries as of December 31, 2014 and 2015 are as follows:

	Principal operations	Ownership (%)						Region
		December 31, 2014			December 31, 2015			
		POSCO	Subsidiaries	Total	POSCO	Subsidiaries	Total	
<b>[Domestic]</b>								
POSCO ENGINEERING & CONSTRUCTION., LTD.	Engineering and construction	89.53	—	89.53	52.80	—	52.80	Pohang
POSCO Processing & Service	Steel sales and trading	96.01	—	96.01	96.01	—	96.01	Seoul
POSCO COATED & COLOR STEEL Co., Ltd.	Coated steel manufacturing	56.87	—	56.87	56.87	—	56.87	Pohang
POSCO ICT	Computer hardware and software distribution	65.38	—	65.38	65.38	—	65.38	Seongnam
POSCO Research Institute	Economic research and consulting	100.00	—	100.00	100.00	—	100.00	Seoul
POSMATE	Business facility maintenance	57.25	11.05	68.30	57.25	11.05	68.30	Suncheon
POSCO A&C	Architecture and consulting	100.00	—	100.00	100.00	—	100.00	Seoul
POSCO Capital Co., Ltd	Investment in venture companies	95.00	—	95.00	95.00	—	95.00	Pohang
eNtoB Corporation	Electronic commerce	—	62.38	62.38	7.50	53.63	61.13	Seoul
POSCO CHEMTECH	Refractories manufacturing and sales	60.00	—	60.00	60.00	—	60.00	Pohang
POSCO-Terminal Co., Ltd.	Transporting and warehousing	51.00	—	51.00	51.00	—	51.00	Gwangyang
POSCO M-TECH	Packing materials manufacturing and sales	48.85	—	48.85	48.85	—	48.85	Pohang
POSCO ENERGY CO., LTD.	Generation of electricity	89.02	—	89.02	89.02	—	89.02	Seoul
POSCO TMC Co., Ltd.	Component manufacturing	—	74.56	74.56	—	74.56	74.56	Cheonan
POSCO NIPPON STEEL RHF JOINT VENTURE. Co., Ltd.	Steel manufacturing and sales	70.00	—	70.00	70.00	—	70.00	Pohang
MegaAsset Co., Ltd.	Real estate rental and sales	—	100.00	100.00	—	100.00	100.00	Cheonan
POSCO Engineering Co., Ltd	Construction and engineering service	—	95.56	95.56	—	95.56	95.56	Incheon
POSCO AST	Steel manufacturing and sales	—	100.00	100.00	—	100.00	100.00	Ansan
POSHIMETAL Co., Ltd.	Ferromanganese manufacturing and sales	65.00	—	65.00	100.00	—	100.00	Gwangyang
Poscoene	Refuse derived fuel and power generation	—	100.00	100.00	—	100.00	100.00	Seoul
POSCO Humans	Construction	90.30	—	90.30	90.30	—	90.30	Pohang
Mapo Hibroad Parking co., Ltd.	Construction	—	70.99	70.99	—	70.99	70.99	Seoul
Steel Processing and Fabricating Center Co., LTD	Steel manufacturing	—	84.89	84.89	—	84.89	84.89	Gwangyang
BLUE O&M Co., Ltd.	Engineering service	—	100.00	100.00	—	100.00	100.00	Pohang
Busan E&E Co., Ltd.	Refuse derived fuel and power generation	70.00	—	70.00	70.00	—	70.00	Busan
POSCO Family Strategy Fund	Investment in venture companies	60.79	39.21	100.00	69.91	30.09	100.00	Pohang
Daewoo International Corporation	Trading, energy & resource development and others	60.31	—	60.31	60.31	—	60.31	Seoul
POSCO LED Co., Ltd.	LED lightening	16.70	63.30	80.00	16.70	63.30	80.00	Seongnam

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

	Principal operations	Ownership (%)						Region
		December 31, 2014			December 31, 2015			
		POSCO	Subsidiaries	Total	POSCO	Subsidiaries	Total	
Pohang Scrap Recycling Distribution Center Co., Ltd.	Steel processing and sales	—	51.00	51.00	—	51.00	51.00	Pohang
PSC Energy Global Co., Ltd.	Investment in energy industry	—	100.00	100.00	—	100.00	100.00	Pohang
Suncheon Eco Trans Co., Ltd	Train manufacturing and management	100.00	—	100.00	100.00	—	100.00	Suncheon
Tamra Offshore Wind Power Co., Ltd	Cogeneration plant operation	—	64.00	64.00	—	64.00	64.00	Jeju
IT Engineering	Automotive engineering service	—	17.00	17.00	—	17.00	17.00	Seoul
Future Creation Fund Postech Early Stage account	Investment in venture companies	—	40.00	40.00	—	40.00	40.00	Seoul
POSCO Green Gas Technology Co., Ltd	Gas production and sales	100.00	—	100.00	100.00	—	100.00	Gwangyang
POSCO WOMAN'S FUND	Investment in venture companies	—	40.00	40.00	—	40.00	40.00	Seoul
POPOWER Co., Ltd.	Other generation	—	100.00	100.00	—	100.00	100.00	Samchuck
Songdo Posco family Housing	House manufacturing and management	—	100.00	100.00	—	100.00	100.00	Incheon
Posco Group University	Education service and real estate business	—	—	—	100.00	—	100.00	Incheon
HOTEL LAONZENA	Hotel business	—	—	—	—	100.00	100.00	Daegu
Growth Ladder POSCO K-Growth Global Fund	Investment in venture companies	—	—	—	—	50.00	50.00	Pohang
2015 POSCO New technology II Fund	Investment in venture companies	—	—	—	—	25.00	25.00	Pohang
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.)	Special steel manufacturing and sales	72.09	—	72.09	—	—	—	Changwon
POSFINE Co., Ltd.	Non-metallic mineral manufacturing	69.23	—	69.23	—	—	—	Gwangyang
POSCO PLANTEC Co., Ltd.	Industry plant construction	60.84	13.10	73.94	—	—	—	Pohang
POREKA Co., Ltd.	Advertising business	100.00	—	100.00	—	—	—	Seoul
New Altec Co., Ltd	Aluminum manufacturing and sales	—	60.10	60.10	—	—	—	Incheon
PONUTech Co., Ltd.	Nuclear power plant design and repair service	—	100.00	100.00	—	—	—	Ulsan
POS-HiAL	High purity alumina manufacturing	—	51.00	51.00	—	—	—	Yeongam
Keystone-HYUNDAI SECURITIES NO. 1. Private Equity Fund	Investment in new regeneration energy	—	55.12	55.12	—	—	—	Seoul
Chun Sa wind	Other generation	—	100.00	100.00	—	—	—	Seoul
<b>[Foreign]</b>								
POSCO America Corporation	Steel trading	99.45	0.55	100.00	99.45	0.55	100.00	USA
POSCO AUSTRALIA PTY LTD	Iron ore sales & mine development	100.00	—	100.00	100.00	—	100.00	Australia
POSCO Canada Ltd.	Coal sales	—	100.00	100.00	—	100.00	100.00	Canada
POSCO Asia Co., Ltd.	Steel and raw material trading	100.00	—	100.00	100.00	—	100.00	China
POSCO-CTPC Co., Ltd.	Steel manufacturing	56.60	43.40	100.00	56.60	43.40	100.00	China
POSCO-JWPC Co., Ltd.	Steel manufacturing	—	89.18	89.18	—	89.18	89.18	Japan
POSCO E&C Vietnam Co., Ltd.	Steel manufacturing	—	100.00	100.00	—	100.00	100.00	Vietnam
Zhangjiagang Pohang Stainless Steel Co., Ltd.	Stainless steel manufacturing	58.60	23.88	82.48	58.60	23.88	82.48	China

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

	Principal operations	Ownership (%)						Region
		December 31, 2014			December 31, 2015			
		POSCO	Subsidiaries	Total	POSCO	Subsidiaries	Total	
POSCO(Guangdong) Steel Co., Ltd.	Plating steel sheet manufacturing	87.04	10.04	97.08	87.04	10.04	97.08	China
POSCO (Thailand) Company Limited	Steel manufacturing	85.62	14.38	100.00	85.62	14.38	100.00	Thailand
Myanmar POSCO Steel Co., Ltd.	Zinc relief manufacturing	70.00	—	70.00	70.00	—	70.00	Myanmar
POSCO Investment Co., Ltd.	Financial Service	100.00	—	100.00	100.00	—	100.00	China
POSCO-MKPC SDN BHD	Steel manufacturing	44.69	25.31	70.00	44.69	25.31	70.00	Malaysia
Qingdao Pohang Stainless Steel Co., Ltd.	Stainless steel manufacturing	70.00	30.00	100.00	70.00	30.00	100.00	China
POSCO(Suzhou) Automotive Processing Center Co., Ltd.	Steel manufacturing	90.00	10.00	100.00	90.00	10.00	100.00	China
POSEC Hawaii, Inc.	Real estate Industry	—	100.00	100.00	—	100.00	100.00	USA
POSCO-China Qingdao Processing Center Co., Ltd.	Steel manufacturing	—	100.00	100.00	—	100.00	100.00	China
POS-ORE PTY LTD	Iron ore sales & mine development	—	100.00	100.00	—	100.00	100.00	Australia
POSCO-China Holding Corp.	Holding company	100.00	—	100.00	100.00	—	100.00	China
POSCO JAPAN Co., Ltd.	Steel trading	100.00	—	100.00	100.00	—	100.00	Japan
POS-CD PTY LTD	Coal sales	—	100.00	100.00	—	100.00	100.00	Australia
POS-GC PTY LTD	Coal sales	—	100.00	100.00	—	100.00	100.00	Australia
POSCO-India Private Limited	Steel manufacturing	99.99	—	99.99	99.99	—	99.99	India
POSCO-India Pune Processing Center. Pvt. Ltd.	Steel manufacturing	65.00	—	65.00	65.00	—	65.00	India
POSCO-JEPC Co., Ltd.	Steel manufacturing	—	88.02	88.02	—	88.02	88.02	Japan
POSCO-CFFC Co., Ltd.	Steel manufacturing	39.60	60.40	100.00	39.60	60.40	100.00	China
POSCO E&C CHINA Co., Ltd.	Construction and civil engineering	—	100.00	100.00	—	100.00	100.00	China
POSCO MPPC S.A. de C.V.	Steel manufacturing	—	95.00	95.00	—	95.00	95.00	Mexico
Zhangjiagang Pohang Port Co., Ltd.	Loading and unloading service	—	100.00	100.00	—	100.00	100.00	China
Qingdao Pos-metal Co., Ltd.	Steel manufacturing	—	100.00	100.00	—	100.00	100.00	China
POSCO-VIETNAM Co., Ltd.	Steel manufacturing	85.00	—	85.00	100.00	—	100.00	Vietnam
POSCO MEXICO S.A. DE C.V.	Automotive steel sheet manufacturing	84.84	15.16	100.00	84.84	15.16	100.00	Mexico
POSCO India Delhi Steel Processing Centre Private Limited	Steel manufacturing	66.40	10.00	76.40	66.40	10.00	76.40	India
POSCAN Elkview	Coal sales	—	100.00	100.00	—	100.00	100.00	Canada
POSCO-Poland Wroclaw Processing Center Sp. z o. o.	Steel manufacturing	60.00	—	60.00	60.00	—	60.00	Poland
POS-NP PTY LTD	Coal sales	—	100.00	100.00	—	100.00	100.00	Australia
POSCO-Vietnam Processing Center Co., Ltd.	Steel manufacturing	87.07	4.98	92.05	87.07	4.98	92.05	Vietnam
POSCO(Chongqing) Automotive Processing Center Co., Ltd.	Steel manufacturing	90.00	10.00	100.00	90.00	10.00	100.00	China
SUZHOU POSCO-CORE TECHNOLOGY CO., LTD.	Component manufacturing	—	100.00	100.00	—	100.00	100.00	China
POSCO-Malaysia SDN. BHD.	Steel manufacturing	81.79	13.63	95.42	81.79	13.63	95.42	Malaysia
POS-Minerals Corporation	Mine development & sales	—	100.00	100.00	—	100.00	100.00	USA
POSCO(Wuhu) Automotive Processing Center Co., Ltd.	Steel manufacturing	68.57	31.43	100.00	68.57	31.43	100.00	China
POSCO Engineering and Construction India Private Limited	Construction and engineering	—	100.00	100.00	—	100.00	100.00	India
POSCO E&C SMART S DE RL DE CV	Construction and engineering	—	100.00	100.00	—	100.00	100.00	Mexico

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

	Principal operations	Ownership (%)						Region
		December 31, 2014			December 31, 2015			
		POSCO	Subsidiaries	Total	POSCO	Subsidiaries	Total	
POSCO Philippine Manila Processing Center, Inc.	Steel manufacturing	—	100.00	100.00	—	100.00	100.00	Philippines
POSCO China Suzhou Processing Center Co., Ltd.	Steel manufacturing	30.00	70.00	100.00	30.00	70.00	100.00	China
POSCO Gulf SFC LLC Dalian POSCO	Steel manufacturing	—	81.93	81.93	—	81.93	81.93	UAE
ICT-DONGFANG Engineering Co., Ltd.	Electric control equipment manufacturing	—	100.00	100.00	—	100.00	100.00	China
SANPU TRADING Co., Ltd.	Raw material trading	—	70.00	70.00	—	70.00	70.00	China
Zhangjiagang BLZ Pohang International Trading	Steel transit trading	—	100.00	100.00	—	100.00	100.00	China
POSCO MEXICO HUMAN TECH S.A. de C.V.	Service	80.00	20.00	100.00	80.00	20.00	100.00	Mexico
POSCO MESDC S.A. DE C.V.	Steel product sales	—	56.80	56.80	—	56.80	56.80	Mexico
POSCO ICT-China	IT service and DVR business	—	100.00	100.00	—	100.00	100.00	China
Pos-Sea Pte Ltd	Steel transit trading	—	67.54	67.54	—	67.54	67.54	Singapore
POSCO Europe Steel Distribution Center	Steel product sales	50.00	20.00	70.00	50.00	20.00	70.00	Slovenia
POSCO ENGINEERING (THAILAND) CO.,	Chemical plant	—	48.90	48.90	—	100.00	100.00	Thailand
POSCO VST CO., LTD.	Stainless steel sheet manufacturing and sales	95.65	—	95.65	95.65	—	95.65	Vietnam
POSCO Maharashtra Steel Private Limited	Steel manufacturing	100.00	—	100.00	100.00	—	100.00	India
POSCO India Chennai Steel Processing Centre Pvt. Ltd.	Steel manufacturing	100.00	—	100.00	100.00	—	100.00	India
POSCO TNPC Otomotiv Celik San. Ve Tic. A.S	Steel manufacturing	100.00	—	100.00	100.00	—	100.00	Turkey
POSCO Vietnam Ha Noi Processing Center Co., Ltd.	Steel manufacturing	70.00	—	70.00	70.00	—	70.00	Vietnam
POSCO(Liaoning) Automotive Processing Center Co., Ltd.	Steel manufacturing	90.00	10.00	100.00	90.00	10.00	100.00	China
POSCO-Indonesia Jakarta Processing Center	Steel manufacturing	65.00	20.00	85.00	65.00	20.00	85.00	Indonesia
POSCO E&C VENEZUELA C.A.	Construction and engineering	—	100.00	100.00	—	100.00	100.00	Venezuela
Motta Resources Indonesia	Mine development	65.00	—	65.00	65.00	—	65.00	Indonesia
<b>[Foreign]</b>								
POSCO TMC INDIA PRIVATE LIMITED	Steel manufacturing	—	100.00	100.00	—	100.00	100.00	India
POSCO America Alabama Processing Center Co., Ltd.	Steel manufacturing	—	100.00	100.00	—	100.00	100.00	USA
PT PEN INDONESIA	Construction	—	67.00	67.00	—	100.00	100.00	Indonesia
POSCO(Yantai) Automotive Processing Center Co., Ltd.	Steel manufacturing	90.00	10.00	100.00	90.00	10.00	100.00	China
POSCO India Steel Distribution Center Private Ltd.	Steel logistics	—	100.00	100.00	—	100.00	100.00	India
POSCO China Dalian Plate Processing Center Co., Ltd.	Steel manufacturing	80.00	10.00	90.00	80.00	10.00	90.00	China
POSCO-South Asia Company Limited	Steel product sales	100.00	—	100.00	100.00	—	100.00	Thailand
POSCO SS-VINA	Steel manufacturing	—	100.00	100.00	100.00	—	100.00	Vietnam

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

	Principal operations	Ownership (%)						Region
		December 31, 2014			December 31, 2015			
		POSCO	Subsidiaries	Total	POSCO	Subsidiaries	Total	
POSCO NCR Coal Ltd.	Coal sales	—	100.00	100.00	—	100.00	100.00	Canada
POSCO WA PTY LTD	Iron ore sales & mine development	100.00	—	100.00	100.00	—	100.00	Australia
POSCO Engineering and Construction — UZ	Construction	—	100.00	100.00	—	100.00	100.00	Uzbekistan
POSCO AUSTRALIA GP PTY LIMITED	Resource development	—	100.00	100.00	—	100.00	100.00	Australia
POSCO YongXin Rare Earth Metal Co., Ltd.	Magnet material manufacturing and sales	—	51.67	51.67	—	51.60	51.60	China
Hanjung Power Pty., Ltd	Electricity production	—	100.00	100.00	—	100.00	100.00	Papua New Guinea
Daewoo International (America) Corp.	Trading business	—	100.00	100.00	—	100.00	100.00	USA
Daewoo International (Deutschland) GmbH.	Trading business	—	100.00	100.00	—	100.00	100.00	Germany
Daewoo International Japan Corp.	Trading business	—	100.00	100.00	—	100.00	100.00	Japan
DAEWOO INTERNATIONAL SINGAPORE PTE. LTD.	Trading business	—	100.00	100.00	—	100.00	100.00	Singapore
Daewoo Italia S.r.l.	Trading business	—	100.00	100.00	—	100.00	100.00	Italy
Daewoo (China) Co., Ltd.	Trading business	—	100.00	100.00	—	100.00	100.00	China
DAEWOO TEXTILE FERGANA LLC	Textile manufacturing	—	100.00	100.00	—	100.00	100.00	Uzbekistan
DAEWOO TEXTILE BUKHARA LLC	Textile manufacturing	—	100.00	100.00	—	100.00	100.00	Uzbekistan
DAEWOO INTERNATIONAL AUSTRALIA HOLDINGS PTY LTD	Resource development	—	100.00	100.00	—	100.00	100.00	Australia
Daewoo Paper Manufacturing Co., Ltd.	Paper manufacturing	—	66.70	66.70	—	66.70	66.70	China
Tianjin Daewoo Paper Manufacturing Co.,	Paper manufacturing	—	68.30	68.30	—	68.00	68.00	China
POSCO MAURITIUS LIMITED	Coal development and sales	—	100.00	100.00	—	100.00	100.00	Mauritius
PT. KRAKATAU POSCO	Steel manufacturing	70.00	—	70.00	70.00	—	70.00	Indonesia
DAEWOO INTERNATIONAL MEXICO S.A. DE C.V.	Trading business	—	100.00	100.00	—	100.00	100.00	Mexico
Daewoo International Guangzhou Corp.	Trading business	—	100.00	100.00	—	100.00	100.00	China
POSCO (Zhangjiagang) STS Processing Center Co., Ltd	Steel manufacturing	—	100.00	100.00	—	100.00	100.00	China
Daewoo International (M) SDN BHD	Trading business	—	100.00	100.00	—	100.00	100.00	Malaysia
Daewoo International SHANGHAI CO., LTD.	Trading business	—	100.00	100.00	—	100.00	100.00	China
PGSF, L.P.	Investment in bio tech Industry	—	100.00	100.00	—	100.00	100.00	USA
Xenesys Inc.	Power generation equipment manufacturing	29.58	21.35	50.93	29.58	21.35	50.93	Japan
Daewoo International INDIA Private Ltd.	Trading business	—	100.00	100.00	—	100.00	100.00	India
PT. POSCO E&C INDONESIA	Construction	—	100.00	100.00	—	100.00	100.00	Indonesia
HUME COAL PTY LTD	Raw material manufacturing	—	100.00	100.00	—	100.00	100.00	Australia
POSCO FOUNDATION	Non-profit charitable organization	—	100.00	100.00	—	100.00	100.00	India
EPC EQUITIES LLP	Construction	—	80.00	80.00	—	80.00	80.00	England

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

	Principal operations	Ownership (%)						Region
		December 31, 2014			December 31, 2015			
		POSCO	Subsidiaries	Total	POSCO	Subsidiaries	Total	
SANTOS CMI CONSTRUCTION TRADING LLP	Construction	—	99.90	99.90	—	99.90	99.90	England
SANTOS CMI INC. USA	Construction	—	100.00	100.00	—	100.00	100.00	USA
SANTOS CMI ENGENHARIA E CONSTRUÇOES LTDA	Construction	—	99.98	99.98	—	99.98	99.98	Brazil
SANTOS CMI PERU S.A.	Construction	—	99.99	99.99	—	99.99	99.99	Peru
SANTOS CMI CONSTRUCCIONES S.A.	Construction	—	100.00	100.00	—	100.00	100.00	Uruguay
GENTECH INTERNATIONAL INC.	Construction	—	90.00	90.00	—	90.00	90.00	Panama
SANTOS CMI S.A.	Construction	—	80.00	80.00	—	80.00	80.00	Ecuador
SANTOS CMI CONSTRUCCIONES DE CHILE S.A.	Construction	—	99.00	99.00	—	99.00	99.00	Chile
COMPANIA DE AUTOMATIZACION & CONTROL, GENESYS S.A.	Construction	—	90.00	90.00	—	90.00	90.00	Ecuador
POSCO ASSAN TST STEEL INDUSTRY	Steel manufacturing	60.00	10.00	70.00	60.00	10.00	70.00	Turkey
HONG KONG POSCO E&C (CHINA) INVESTMENT Co., Ltd.	Investment	—	100.00	100.00	—	100.00	100.00	Hong Kong
POSCO ENGINEERING & CONSTRUCTION DO BRAZIL LTDA.	Construction	—	100.00	100.00	—	100.00	100.00	Brazil
POSCO Electrical Steel India Private Limited	Electrical steel manufacturing	100.00	—	100.00	100.00	—	100.00	India
PT. POSCO-Indonesia Inti	Mine development	100.00	—	100.00	100.00	—	100.00	Indonesia
POSCO(Dalian) IT Center Development Co., Ltd.	Investment	—	100.00	100.00	—	100.00	100.00	China
Brazil Sao Paulo Steel Processing Center	Steel manufacturing	—	76.00	76.00	—	76.00	76.00	Brazil
DAESAN (CAMBODIA) Co., Ltd.	Investment	—	100.00	100.00	—	100.00	100.00	Cambodia
PT. POSCO ICT INDONESIA	IT service and electric control engineering	—	66.99	66.99	—	66.99	66.99	Indonesia
PT. POSCO MTECH INDONESIA	Steel manufacturing	—	71.43	71.43	—	99.98	99.98	Indonesia
PT. KRAKATAU POSCO ENERGY	Manufacturing & management	—	90.00	90.00	—	90.00	90.00	Indonesia
POSCO RUS LLC	Trading business	90.00	10.00	100.00	90.00	10.00	100.00	Russia
POSCO Thainox Public Company Limited	Steel manufacturing	84.93	—	84.93	84.93	—	84.93	Thailand
DAEWOO INTERNATIONAL SHANGHAI WAIGAOQIAO CO., LTD.	Merchandising trade	—	100.00	100.00	—	100.00	100.00	China
PT. Bio Inti Agrindo	Forest resources development	—	85.00	85.00	—	85.00	85.00	Indonesia
POSCO ENGINEERING AND CONSTRUCTION AUSTRALIA (POSCO E&C AUSTRALIA) PTY LTD	Iron ore sales	—	100.00	100.00	—	100.00	100.00	Australia
<b>[Foreign]</b> POSCO-TISCO (JILIN) PROCESSING CENTER Co., Ltd.	Steel manufacturing	50.00	10.00	60.00	50.00	10.00	60.00	China

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

	Principal operations	Ownership (%)						Region
		December 31, 2014			December 31, 2015			
		POSCO	Subsidiaries	Total	POSCO	Subsidiaries	Total	
Hunchun Posco Hyundai International Logistics Complex								
Development Co., Ltd	Logistics	—	80.00	80.00	—	80.00	80.00	China
USA-SRDC	Scrap sales	—	100.00	100.00	—	100.00	100.00	USA
Daewoo International Vietnam Co., Ltd.	Trading business	—	100.00	100.00	—	100.00	100.00	Vietnam
PT.Krakatau Posco Chemtech Calcination	Quicklime manufacturing and sales	—	80.00	80.00	—	80.00	80.00	Indonesia
POSCO AFRICA (PROPRIETARY) LIMITED	Trading business	100.00	—	100.00	100.00	—	100.00	South Africa
EPC INGENIERIA & SERVICIOS DE COSTA RICA SA	Construction and engineering service	—	100.00	100.00	—	100.00	100.00	Costa Rica
POSCO ICT BRASIL	IT service and engineering	—	100.00	100.00	—	100.00	100.00	Brazil
LA-SRDC	Scrap manufacturing	—	68.41	68.41	—	100.00	100.00	USA
DONG FANG JIN HONG	Real estate development, rental and management	—	99.00	99.00	—	100.00	100.00	China
POSCO AMERICA COMERCIALIZADORA S DE RL DE CV	Human resource service	—	100.00	100.00	—	100.00	100.00	Mexico
POSCO(Guangdong) Automotive Steel Co., Ltd.	Steel manufacturing and sales	83.64	10.00	93.64	83.64	10.00	93.64	China
POSCO MAPC SA DE CV	Steel manufacturing and sales	80.00	20.00	100.00	80.00	20.00	100.00	Mexico
POSCO-Mory-Maruyasu PIPE	Common steel welded pipe manufacturing and sales	—	50.00	50.00	—	50.00	50.00	Japan
PT KRAKATAU BLUE WATER	Wastewater treatment facilities operation and maintenance	—	67.00	67.00	—	67.00	67.00	Indonesia
KRAKATAU POS-CHEM DONG-SUH CHEMICAL	Chemical by-product manufacturing and sales	—	45.00	45.00	—	45.00	45.00	Indonesia
Myanmar Daewoo International Corporation	Trading business	—	100.00	100.00	—	100.00	100.00	Myanmar
POSCO-Italy Processing Center	Stainless steel sheet manufacturing and sales	80.00	10.00	90.00	80.00	10.00	90.00	Italy
DAEWOO E&P CANADA CORPORATION	Crude oil and natural gas mining	—	100.00	100.00	—	100.00	100.00	Canada
Yingkou Puxiang Trade Co., Ltd.	Refractory quality test and import and export trade	—	100.00	100.00	—	100.00	100.00	China
Myanmar POSCO C&C Company, Limited.	Steel manufacturing and sales	—	70.00	70.00	—	70.00	70.00	Myanmar
POSCO ICT VIETNAM	IT service and electric control engineering	—	100.00	100.00	—	100.00	100.00	Vietnam
Daewoo Global Development. Pte., Ltd	Real estate development	—	51.00	51.00	—	51.00	51.00	Myanmar

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

Principal operations	Ownership (%)						Region	
	December 31, 2014			December 31, 2015				
	POSCO	Subsidiaries	Total	POSCO	Subsidiaries	Total		
Myanmar POSCO Engineering & Construction Company, Limited.	Construction and engineering service	—	100.00	100.00	—	100.00	100.00	Myanmar
POSCO COATED STEEL (THAILAND) CO., LTD.	Automotive steel sheet manufacturing and sales	100.00	—	100.00	100.00	—	100.00	Thailand
Daewoo Power and Infra (PTY) Limited	Electricity	—	100.00	100.00	—	100.00	100.00	South Africa
Daewoo Amara Company Limited	Real estate development	—	98.54	98.54	—	98.54	98.54	Myanmar
POSMATE-CHINA CO., LTD	Business facility maintenance	—	100.00	100.00	—	100.00	100.00	China
Daewoo Precious Resources Co., Ltd.	Resources development	—	60.00	60.00	—	70.00	70.00	Myanmar
POSCO-Mexico Villagran Wire-rod Processing Center	Steel manufacturing	56.75	10.00	66.75	56.75	10.00	66.75	Mexico
SANTOS CMI Guatemala S.A.	Construction	—	99.00	99.00	—	100.00	100.00	Guatemala
POSCO-China Dalian Steel Fabricating Center	Steel manufacturing	42.16	25.39	67.55	42.16	25.39	67.55	China
POSCO-CDPC(POSCO ChengDu Processing Center) Co., Ltd	Steel manufacturing	—	—	—	33.00	10.00	43.00	China
POSCO E&C HOLDINGS CO., Ltd.	Holding company	—	100.00	100.00	—	100.00	100.00	Thailand
POSCO E&C (THAILAND) CO., Ltd.	Construction	—	100.00	100.00	—	100.00	100.00	Thailand
DAEWOO POWER PNG Ltd.	Electricity production	—	100.00	100.00	—	100.00	100.00	Papua New Guinea
POSCO India Ahmedabad Steel Processing Center Pvt. Ltd.	Steel manufacturing	—	—	—	100.00	—	100.00	India
COINSA INGENIERIA Y PETROQUIMICA S.R.L	Construction	—	—	—	—	50.00	50.00	Bolivia
PT.Krakatau Posco Social Enterprise	Social enterprise	—	—	—	—	100.00	100.00	Indonesia
POSCO Vietnam Holdings Co., LTD.	Holding company	—	—	—	79.28	20.72	100.00	Vietnam
Ventanas Philippines Construction Inc	Construction	—	—	—	—	100.00	100.00	Philippines
POSCO E&C Mongolia	Construction	—	—	—	—	100.00	100.00	Mongolia
POSCO BIOVENTURES I, L.P.	Bio tech Industry	—	100.00	100.00	—	—	—	USA
PT. POSNESIA Stainless Steel Industry	Steel manufacturing	70.00	—	70.00	—	—	—	Indonesia
DWEMEX, S.A.DE.C.V.	Construction	—	99.00	99.00	—	—	—	Mexico
POSCO MPC Servicios S.A. de C.V.	Steel manufacturing	—	61.00	61.00	—	—	—	Mexico
POSCO-Uruguay S.A	Lumber manufacturing & sales	98.10	—	98.10	—	—	—	Uruguay

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

	Principal operations	Ownership (%)						Region
		December 31, 2014			December 31, 2015			
		POSCO	Subsidiaries	Total	POSCO	Subsidiaries	Total	
VECTUS LIMITED	PRT test track construction	—	99.69	99.69	—	—	—	England
ZEUS(Cayman)	Service	100.00	—	100.00	—	—	—	Cayman Islands
Myanmar Daewoo Limited	Trading business	—	100.00	100.00	—	—	—	Myanmar
Daewoo (M) SDN. BHD.	Trading business	—	100.00	100.00	—	—	—	Malaysia
Daewoo EL SALVADOR S.A. DE C.V.	Trading business	—	88.00	88.00	—	—	—	El Salvador
TECHREN Solar, LLC	Electrical Industry	—	99.92	99.92	—	—	—	USA
EPC INVESTMENTS C.V.	Construction	—	99.99	99.99	—	—	—	Holland
VAUTIDAMERICAS S.A.	Construction	—	51.00	51.00	—	—	—	Ecuador
POSCO Klappan Coal Limited	Coal sales	—	100.00	100.00	—	—	—	Canada
PRODUCTOS OFERTAS SISTEMAS Y COMERCIALIZADORA ORIENTAL S DE RL DE CV	Steel sales	—	100.00	100.00	—	—	—	Mexico
SUNGJIN CANADA LTD.	Machinery installation	—	70.00	70.00	—	—	—	Canada
POSCO PLANTEC Thailand CO. LTD	Steel work maintenance and machinery installation	—	48.78	48.78	—	—	—	Thailand

The equity of controlling company is decreased by ₩9,401 million (POSCO Processing & Service, Steel Processing and Fabricating Center Co., LTD and others) for the year ended December 31, 2014 and increased by ₩301,029 million (POSCO ENGINEERING & CONSTRUCTION., LTD., PT PEN INDONESIA and others) as a result of changes in the Company's ownership interests in subsidiaries that did not result in a loss of control for the years ended December 31, 2015.

Cash dividends paid to POSCO by subsidiaries in 2014 and 2015 amounted to ₩58,488 million and ₩437,194 million, respectively.

As of December 31, 2015, there are no restrictions on the ability of subsidiaries to transfer funds to the controlling company, such as in the form of cash dividends, repayment of loans or payment of advances.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(c) Details of non-controlling interest as of and for the years ended December 31, 2014 and 2015 are as follows:

1) December 31, 2014

	Daewoo International Corporation	PT. KRAKATAU POSCO	POSCO CHEMTECH	POSCO ENGINEERING & CONSTRUCTION CO., LTD.	POSCO ENERGY Co., Ltd.	Others	Total
	(in millions of Won)						
Current assets	₩ 5,177,495	645,598	360,673	5,082,514	501,219	12,781,184	24,548,683
Non-current assets	6,028,358	3,303,632	251,206	1,333,612	3,393,917	10,135,827	24,446,552
Current liabilities	(5,046,468)	(988,132)	(131,389)	(3,494,647)	(546,791)	(11,493,074)	(21,700,501)
Non-current liabilities	(1,807,698)	(2,118,519)	(7,150)	(882,025)	(2,513,129)	(3,681,307)	(11,009,828)
Equity	4,351,687	842,579	473,340	2,039,454	835,216	7,742,630	16,284,906
Non-controlling interests	1,727,078	252,773	189,336	213,624	91,668	1,677,400	4,151,879
Sales	19,938,711	1,129,977	1,331,527	7,174,890	2,533,673	28,738,206	60,846,984
Profit (loss) for the period	83,167	(232,503)	68,196	50,023	21,100	(159,066)	(169,083)
Profit (loss) attributable to non-controlling interests	33,007	(69,751)	27,278	5,240	2,316	(62,302)	(64,212)
Cash flows from operating activities	(149,695)	(27,383)	20,676	24,592	36,346	(121,697)	(217,161)
Cash flows from investing activities	(167,573)	(74,454)	(28,349)	(33,755)	(117,154)	(230,954)	(652,239)
Cash flows from financing activities (before dividends to non-controlling interest)	336,114	75,680	—	(15,162)	83,014	406,904	886,550
Dividend to non-controlling interest	(13,558)	—	(3,544)	(1,923)	(2,648)	(5,748)	(27,421)
Effect of exchange rate fluctuation on cash held	(46)	134	43	(8)	—	3,636	3,759
Net increase (decrease) in cash and cash equivalents	5,242	(26,023)	(11,174)	(26,256)	(442)	52,141	(6,512)

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

2) December 31, 2015

	Daewoo International Corporation	PT. KRAKATAU POSCO	POSCO CHEMTECH	POSCO ENGINEERING & CONSTRUCTION CO., LTD.	POSCO ENERGY Co., Ltd.	Others	Total
	(in millions of Won)						
Current assets	₩ 3,930,857	441,999	360,812	5,115,325	590,460	9,648,917	20,088,370
Non-current assets	4,777,482	3,363,935	248,549	1,756,367	3,333,351	7,776,264	21,255,948
Current liabilities	(3,568,714)	(1,004,002)	(106,167)	(3,125,697)	(663,945)	(9,692,004)	(18,160,529)
Non-current liabilities	(1,941,909)	(2,315,554)	(5,405)	(768,529)	(2,420,547)	(2,567,980)	(10,019,924)
Equity	3,197,716	486,378	497,789	2,977,466	839,319	5,165,197	13,163,865
Non-controlling interests	1,269,096	145,913	199,116	1,405,391	92,118	1,182,137	4,293,771
Sales	16,890,723	1,227,266	1,175,272	6,866,802	1,909,919	25,784,254	53,854,236
Profit (loss) for the period	79,092	(398,438)	35,516	108,895	15,831	(835,388)	(994,492)
Profit (loss) attributable to non-controlling interests	31,390	(119,531)	14,206	51,399	1,738	(247,107)	(267,905)
Cash flows from operating activities	433,493	(13,595)	19,921	434,257	6,075	(72,371)	807,780
Cash flows from investing activities	(74,644)	(8,994)	25,318	21,075	(20,980)	(110,712)	(168,937)
Cash flows from financing activities (before dividends to non-controlling interest)	(340,532)	18,886	66	69,615	11,572	(1,718)	(242,111)
Dividend to non-controlling interest	(22,597)	—	(4,135)	(703)	(2,648)	145,851	115,768
Effect of exchange rate fluctuation on cash held	430	83	—	819	—	3,502	4,834
Net increase (decrease) in cash and cash equivalents	(3,850)	(3,620)	41,170	525,063	(5,981)	(35,448)	517,334

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements, Continued

### As of December 31, 2013, 2014 and 2015

#### (d) Details of associates and joint ventures

##### 1) Associates

Details of associates as of December 31, 2014 and 2015 are as follows:

Investee	Category of business	Ownership (%)		Region
		2014	2015	
<b>[Domestic]</b>				
EQP POSCO Global NO1 Natural Resources				
PEF	Investment in new technologies	28.48	28.93	Seoul
POSCO PLANTEC Co., Ltd. <sup>(2,3)</sup>	Construction of industrial plant	—	73.94	Ulsan
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.) <sup>(1,3)</sup>	Steel manufacturing and sales	—	19.94	Changwon
SNNC	Raw material manufacturing and sales	49.00	49.00	Gwangyang
QSONE Co., Ltd.	Real estate rental and facility management	50.00	50.00	Seoul
UITrans LRT Co., Ltd.	Transporting	38.19	38.19	Seoul
Incheon-Gimpo Expressway Co., Ltd.	Construction	25.76	22.32	Anyang
BLUE OCEAN Private Equity Fund	Private equity financial	27.52	27.52	Seoul
Chun-cheon Energy Co., Ltd.	Electricity generation	29.90	29.90	Chuncheon
KoFC POSCO HANWHA KB Shared Growth NO. 2. Private Equity Fund <sup>(1)</sup>	Investment in new technologies	12.50	12.50	Seoul
Daesung Steel Co. <sup>(1,3)</sup>	Steel sales	—	17.54	Busan
Keystone-HYUNDAI SECURITIES NO. 1. Private Equity Fund <sup>(3)</sup>	Private equity financial	—	40.45	Seoul
CHUNGJU ENTERPRISE CITY DEVELOPMENT Co., Ltd.				
	Real estate development	25.10	25.10	Chungju
KONES, Corp.	Technical service	41.67	41.67	Gyeongju
Gale International Korea, LLC	Real estate rental	29.90	29.90	Seoul
Pohang Techno Valley PFV Corporation <sup>(2)</sup>	Real estate development and rental	54.99	54.99	Pohang
Gunggi Green Energy <sup>(1)</sup>	Electricity generation	19.00	19.00	Hwaseong
Pohang Special Welding Co., Ltd.	Welding material and tools manufacturing and sales	50.00	50.00	Pohang
KC Chemicals <sup>(1)</sup>	Machinery manufacturing	19.00	19.00	Hwaseong
Posco -IDV Growth Ladder IP Fund <sup>(1)</sup>	Investment in new technologies	17.86	17.86	Seoul
Green Jang Ryang Co., Ltd.	Sewerage treatment	25.00	25.00	Pohang
Daewoo Public Car Sales (Gwangju) CO., Ltd.	Leasing services	50.00	50.00	Gwangju
DAEHO GLOBAL MANAGEMENT CO., LTD.	Investment advisory service	35.82	35.82	Pohang
Clean Gimpo Co., Ltd.	Construction	29.58	29.58	Gimpo
Postech Early Stage Fund <sup>(1)</sup>	Investment in new technologies	10.00	10.00	Pohang
POSCO Energy Valley Fund <sup>(3)</sup>	Investment in new technologies	—	20.00	Pohang
Pureun Tongyeong Enviro Co., Ltd.	Sewerage treatment	20.40	20.40	Tongyeong
Posgreen Co., Ltd. <sup>(1)</sup>	Plaster manufacturing	19.00	19.00	Gwangyang
Pohang E&E Co., Ltd. <sup>(3)</sup>	Investment in waste energy	—	30.00	Pohang
POSTECH Social Enterprise Fund <sup>(1)</sup>	Investment in new technologies	9.17	9.17	Seoul
Applied Science Corp.	Machinery manufacturing	26.47	25.73	Paju
Noel Green Energy Co., Ltd.	Electricity generation	20.00	20.00	Seoul
Universal Studios Resort Asset Management Corporation				
	Real estate services	26.17	26.17	Seoul
Synergy Private Equity Fund	Investment in new technologies	17.86	17.86	Seoul
Pohang Techno Valley AMC Corporation	Construction	29.50	29.50	Pohang
METAPOLIS Co., Ltd.	Multiplex development	40.05	40.05	Hwaseong
New Songdo International City Development, LLC	Real estate rental	29.90	29.90	Seoul
Busan-Gimhae Light Rail Transit Co., Ltd.	Transporting	25.00	25.00	Gimhae
Mokpo Daeyang Industrial Corporation	Real estate development	27.40	27.40	Mokpo

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

Investee	Category of business	Ownership (%)		Region
		2014	2015	
Clean Iksan Co., Ltd.	Construction	23.50	23.50	Pohang
Innovalloy Co., Ltd.	Real estate development	28.77	28.77	Yongin
Pure Gimpo Co., Ltd.	Construction	28.79	28.79	Seoul
Garolim Tidal Power Plant Co., Ltd	Tidal power plant construction and management	32.13	32.13	Seosan
Posco e&c Songdo International Building	Non-resident building lease	49.00	49.00	Seoul
Pajoo & Viro Co., Ltd. <sup>(4)</sup>	Construction	40.00	—	Paju
SuNAM Co., Ltd <sup>(6)</sup>	Power supply manufacturing	19.17	—	Seoul
Suwon Green Environment Co., Ltd <sup>(4)</sup>	Construction	27.50	—	Hwaseong
<b>[Foreign]</b>				
South-East Asia Gas Pipeline Company Ltd.	Pipeline construction	25.04	25.04	Myanmar
AES-VCM Mong Duong Power Company Limited	Electricity generation	30.00	30.00	Vietnam
7623704 Canada Inc. <sup>(1)</sup>	Investments management	10.40	10.40	Canada
Eureka Moly LLC	Raw material manufacturing and sales	20.00	20.00	USA
Nickel Mining Company SAS	Raw material manufacturing and sales	49.00	49.00	New Caledonia
AMCI (WA) PTY LTD.	Iron ore sales & mine development	49.00	49.00	Australia
KOREA LNG LTD.	Gas production and sales	20.00	20.00	England
NCR LLC	Coal sales	29.41	29.41	Canada
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., Ltd	Tinplate manufacturing and sales	34.00	34.00	China
PT. Batutua Tembaga Raya	Raw material manufacturing and sales	24.10	24.10	Indonesia
PT. Wampu Electric Power	Construction and engineering service	20.00	20.00	Indonesia
VSC POSCO Steel Corporation	Steel processing and sales	50.00	50.00	Vietnam
POSCO SeAH Steel Wire(Nantong) Co., Ltd.	Steel processing and sales	25.00	25.00	China
IMFA ALLOYS FINLEASE LTD.	Raw material manufacturing and sales	24.00	24.00	India
General Medicines Company Ltd.	Medicine manufacturing and sales	33.00	33.00	Sudan
PT.INDONESIA POS CHEMTECH CHOSUN Ref	Refractory manufacturing and sales	30.19	30.19	Indonesia
POSK (Pinghu) Steel Processing Center Co., Ltd.	Steel processing and sales	20.00	20.00	China
SHANGHAI LANSHENG DAEWOO CORP.	Trading	49.00	49.00	China
AN KHANH NEW CITY DEVELOPMENT J.V CO., LTD.	Highway construction and new town development	50.00	50.00	Vietnam
POS-SEAHSTEELWIRE(TIANJIN) CO., Ltd	Steel processing and sales	25.00	25.00	China
SHANGHAI WAIGAOQIAO FREE TRADE ZONE LANSHENG DAEWOO IN'L TRADING CO., LTD.	Trading	49.00	49.00	China
XG Sciences <sup>(1)</sup>	New materials manufacturing and development	26.27	10.50	USA
PT. Tanggamus Electric Power <sup>(1)</sup>	Construction and engineering service	20.59	17.50	Indonesia
NS- Thainox Auto Co., Ltd.	Steel manufacturing and sales	49.00	49.00	Vietnam
Hamparan Mulia	Resource development	45.00	45.00	Indonesia
Sebang Steel	Scrap sales	49.00	49.00	Japan
GLOBAL KOMSCO Daewoo LLC	Mintage	35.00	35.00	Uzbekistan
POSCO- Poggenamp Electrical Steel Pvt. Ltd.	Steel manufacturing	26.00	26.00	India
Fifth Combined Heat and Power Plant LLC	Thermal power generation	30.00	30.00	Mongolia
KIRIN VIETNAM CO., LTD <sup>(1,3)</sup>	Panel manufacturing	—	19.00	Vietnam

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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Investee	Category of business	Ownership (%)		Region
		2014	2015	
POSCHROME (PROPRIETARY) LIMITED	Raw material manufacturing and sales	50.00	50.00	South Africa
CAML RESOURCES PTY LTD.	Raw material manufacturing and sales	33.34	33.34	Australia
KG Power (M) SDN. BHD	Energy & resource development	20.00	20.00	Malaysia
LI3 ENERGY INC	Energy & resource development	26.06	26.06	Peru
LLP POSUK Titanium	Titanium manufacturing and sales	36.83	36.83	Kazakhstan
BGC-POS PTY LTD. (*4)	Construction	49.00	—	Australia
Baganuur Energy Corporation(*5)	Refined oil manufacturing	50.00	—	Mongolia
Arctos Anthracite Joint Venture (*5)	Coal sales	20.00	—	Canada

(\*1) The Company is able to exercise significant influence even though the Company's percentage of ownership is below 20% as of December 31, 2015.

(\*2) Considering the composition of Board of Directors, the Company is not able to exercise control over the investee even though the Company's percentage of ownership is above 50%.

(\*3) These associates were newly established or acquired in 2015.

(\*4) Excluded from associates due to the disposal of shares during the year ended December 31, 2015.

(\*5) Excluded from associates due to liquidation during the year ended December 31, 2015.

(\*6) Excluded from associates due to the loss of significant influence caused by change in composition of the Board of Directors during the year ended December 31, 2015.

2) Joint ventures

Details of joint ventures as of December 31, 2014 and 2015 are as follows:

Investee	Category of business	Ownership (%)		Region
		2014	2015	
<b>[Domestic]</b>				
POSCO MITSUBISHI CARBON TECHNOLOGY	Steel processing and sales	60.00	60.00	Gwangyang
POSCO ES MATERIALS	Secondary battery manufacturing	50.00	50.00	Gumi
<b>[Foreign]</b>				
Roy Hill Holdings Pty Ltd.	Energy & resource development	12.50	12.50	Australia
POSCO-NPS Niobium LLC	Mine development	50.00	50.00	USA
DMSA/AMSA	Energy & resource development	4.00	4.07	Madagascar
BX STEEL POSCO Cold Rolled Sheet Co., Ltd.	Steel processing and sales	25.00	25.00	China
CSP — Companhia Siderurgica do Pecem	Steel manufacturing and sales	20.00	20.00	Brazil
KOBRASCO	Facility lease	50.00	50.00	Brazil
PT. POSMI Steel Indonesia	Steel processing and sale	36.69	36.69	Indonesia
Henan Tsingpu Ferro Alloy Co., Ltd.	Raw material manufacturing and sales	49.00	49.00	China
VNS-DAEWOO Co., Ltd.	Steel scrap processing and sale	40.00	40.00	Vietnam
YULCHON MEXICO S.A. DE C.V.(*1)	Tube for automobile manufacturing	—	19.00	Mexico
POSCO-SAMSUNG-Slovakia Processing Center	Steel processing and sales	30.00	30.00	Slovakia
Zhangjiagang Pohang Refractories Co., Ltd.	Refractory manufacturing	50.00	50.00	China
United Spiral Pipe, LLC	Material manufacturing and sales	35.00	35.00	USA
Korea Siberia Wood CJSC	Forest resource development	50.00	50.00	Russia
Hyunson Engineering & Construction				
HYENCO(*1)	Construction	—	4.90	Algeria
TANGGANG-POSCO LED	LED manufacturing and sales	50.00	50.00	China
USS-POSCO Industries	Cold rolled coil manufacturing and sales	50.00	50.00	USA
POSCO-CDPC(POSCO ChengDu Processing Center) Co., Ltd(*2)				
	Steel processing and sale	43.00	—	China
SUNGJIN DRIVER INC(*3)	Module and plant manufacturing	50.00	—	Canada

(\*1) These joint ventures were newly established or acquired in 2015.

## POSCO and Subsidiaries

### Notes to the Consolidated Financial Statements, Continued

#### As of December 31, 2013, 2014 and 2015

(\*2) Reclassified to subsidiary from joint venture during the year ended December 31, 2015.

(\*3) Excluded from joint ventures due to liquidation during the year ended December 31, 2015.

#### (e) Newly included subsidiaries

Consolidated subsidiaries acquired or newly established during the year ended December 31, 2015 are as follows:

Company	Date of acquisition	Ownership (%)	Reason
Posco Group University	February 2015	100.00	New establishment
POSCO India Ahmedabad Steel Processing Center Pvt. Ltd.	February 2015	100.00	New establishment
HOTEL LAONZENA	February 2015	100.00	New establishment
COINSA INGENIERIA Y PETROQUIMICA S.R.L	February 2015	50.00	New establishment
Miracle number four	March 2015	—	Acquisition
PT.Krakatau Posco Social Enterprise	April 2015	100.00	New establishment
POSCO Vietnam Holdings Co., LTD.	May 2015	100.00	New establishment
Growth Ladder POSCO K-Growth Global Fund	May 2015	50.00	New establishment
2015 POSCO New technology II Fund	June 2015	25.00	New establishment
POSCO-CDPC(POSCO ChengDu Processing Center) Co., Ltd	July 2015	43.00	Reclassification from associate
Ventanas Philippines Construction Inc	November 2015	100.00	New establishment
POSCO E&C Mongolia	December 2015	100.00	New establishment

#### (f) Excluded subsidiaries

Subsidiaries that were excluded from consolidation during the year ended December 31, 2015 are as follows:

Company	Date of exclusion	Reason
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.)	March 2015	Reclassification to associates due to decline in ownership
Keystone-HYUNDAI SECURITIES NO. 1. Private Equity Fund	March 2015	Reclassification to associates due to decline in ownership
Chun Sa wind	March 2015	Exclusion upon reclassification of parent company, 'Keystone-HYUNDAI SECURITIES NO. 1. Private Equity Fund' to associates
Zeus(Cayman)	April 2015	Exclusion upon liquidation
POSFINE Co., Ltd.	April 2015	Disposal
PT. POSNESIA Stainless Steel Industry	April 2015	Exclusion upon liquidation
TECHREN Solar, LLC	May 2015	Disposal
New Altec Co., Ltd	May 2015	Disposal
POS- HiAL	June 2015	Loss of control due to administration by court
SUNGJIN CANADA LTD.	June 2015	Exclusion upon liquidation
POREKA Co., Ltd.	August 2015	Disposal
POSCO PLANTEC Co., Ltd.	September 2015	Reclassified to associate due to loss of control through workout
POSCO PLANTEC Thailand CO. LTD	September 2015	Exclusion upon reclassification of parent company, 'POSCO PLANTEC Co., Ltd.' to associates
Miracle number four	September 2015	Exclusion upon reclassification of parent company, 'POSCO PLANTEC Co., Ltd.' to associates
POSCO Klappan Coal Limited	September 2015	Exclusion upon liquidation
EPC INVESTMENTS C.V.	September 2015	Exclusion upon liquidation
POSCO MPC Servicios S.A. de C.V.	September 2015	Merged into POSCO MPPC S.A. de C.V.
PONUtech Co., Ltd.	November 2015	Disposal

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

<b>Company</b>	<b>Date of exclusion</b>	<b>Reason</b>
PRODUCTOS OFERTAS SISTEMAS Y COMERCIALIZADORA ORIENTAL S DE RL DE CV .....	December 2015	Merged into POSCO AMERICA COMERCIALIZADORA S DE RL DE CV
VAUTIDAMERICAS S.A. ....	December 2015	Exclusion upon liquidation
Daewoo EL SALVADOR S.A. DE C.V. ....	December 2015	Exclusion upon liquidation
Daewoo (M) SDN. BHD. ....	December 2015	Exclusion upon liquidation
Myanmar Daewoo Limited .....	December 2015	Exclusion upon liquidation
VECTUS LIMITED .....	December 2015	Disposal
POSCO-Uruguay S.A. ....	December 2015	Exclusion upon liquidation
DWEMEX, S.A.DE.C.V. ....	December 2015	Disposal
POSCO BIOVENTURES I, L.P. ....	December 2015	Exclusion upon liquidation

**2. Statement of Compliance**

**Statement of compliance**

The consolidated financial statements have been prepared in accordance with International Financial Reporting Standards (“IFRSs”), as issued by the International Accounting Standards Board.

The consolidated financial statements were authorized for issue by the authorized directors on February 26, 2016.

**Basis of measurement**

The consolidated financial statements have been prepared on the historical cost basis, except for the following material items in the statement of financial position, as described in the accounting policy below.

- (a) Derivatives instruments are measured at fair value
- (b) Available-for-sale financial assets are measured at fair value
- (c) Defined benefit liabilities are measured at the present value of the defined benefit obligation less the fair value of the plan assets

**Functional and presentation currency**

The financial statements of POSCO and subsidiaries are prepared in functional currency of the respective operation. These consolidated financial statements are presented in Korean Won, which is POSCO’s functional currency and the currency of the primary economic environment in which POSCO operates.

**Use of estimates and judgments**

The preparation of the consolidated financial statements in conformity with IFRS requires management to make judgments, estimates and assumptions that affect the application of accounting policies and the reported amounts of assets, liabilities, income and expenses. Actual results may differ from these estimates.

## **POSCO and Subsidiaries**

### **Notes to the Consolidated Financial Statements, Continued**

#### **As of December 31, 2013, 2014 and 2015**

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Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period prospectively.

#### (a) Judgments

Information about critical judgments in applying accounting policies that have the most significant effect on the amounts recognized in the consolidated financial statements is included in the following notes:

- Note 1 — Subsidiaries, associates and joint ventures
- Note 10 — Assets held for sale
- Note 12 — Joint operations
- Note 25 — Hybrid bonds

#### (b) Assumptions and estimation uncertainties

Information about assumptions and estimation uncertainties that have a significant risk of resulting in a material adjustment within the next financial year is included in the following notes:

- Note 11 — Investments in associates and joint ventures
- Note 15 — Goodwill and other intangible assets, Net
- Note 20 — Provisions
- Note 21 — Employee benefits
- Note 29 — Construction contracts
- Note 35 — Income taxes
- Note 38 — Commitments and contingencies

#### (c) Measurement of fair value

The Company's accounting policies and disclosures require the measurement of fair values, for both financial and non-financial assets and liabilities. The Company has an established control framework with respect to the measurement of fair values. This includes a valuation team that has overall responsibility for overseeing all significant fair value measurements, including Level 3 fair values, and reports directly to the financial officer.

The valuation team regularly reviews significant unobservable inputs and valuation adjustments. If third party information, such as broker quotes or pricing services, is used to measure fair values, then the valuation team assesses the evidence obtained from the third parties to support the conclusion that such valuations meet the requirements of IFRS including the level in the fair value hierarchy in which such valuation techniques should be classified.

When measuring the fair value of an asset or a liability, the Company uses market observable data as far as possible. Fair values are categorized into different levels in a fair value hierarchy based on the inputs used in the valuation techniques as follows.

- Level 1 — unadjusted quoted prices in active markets for identical assets or liabilities.
- Level 2 — inputs other than quoted prices included in Level 1 that are observable for the assets or liability, either directly or indirectly.

## **POSCO and Subsidiaries**

### **Notes to the Consolidated Financial Statements, Continued**

#### **As of December 31, 2013, 2014 and 2015**

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- Level 3 — inputs for the assets or liability that are not based on observable market data.

If the inputs used to measure the fair value of an asset or a liability might be categorized in different levels of the fair value hierarchy, then the fair value measurement is categorized in its entirety in the same level of the fair value hierarchy as the lowest level input that is significant to the entire measurement. The Company recognizes transfers between levels of the fair value hierarchy at the end of the reporting period during which the change has occurred.

Information about the assumptions made in measuring fair values is included in the following note:

- Note 23 — Financial instruments

#### **Changes in accounting policies**

The Company has adopted the following amendments to standards and new interpretation with a date of initial application of January 1, 2015.

- (a) IAS No. 19, “Employee Benefits”

IAS No. 19, Employee Benefits, introduced a practical expedient for companies that operate defined benefit plans and when contributions are made by employees or third parties. According to the amendments, the Company is permitted to recognize those contributions as a reduction of the service cost in the period in which the related service is rendered, instead of forecast future contributions from employees or third parties and attribute them to periods or service as negative benefits.

#### **Impact of changes in accounting policies**

As management believes the impact of IAS No. 19 on the Company’s prior year’s consolidated financial statement is not significant, the comparative period’s consolidated financial statements are not restated.

### **3. Summary of Significant Accounting Policies**

The significant accounting policies applied by the Company in preparation of its consolidated financial statements are included below. The accounting policies set out below have been applied consistently to all periods presented in these financial statements, except for those as disclosed in note 2.

#### **Basis of consolidation**

- (a) Business combinations

The Company accounts for business combinations using the acquisition method when control is transferred to the Company.

The consideration transferred in the acquisition is generally measured at fair value, as are the identifiable net assets acquired. Any goodwill that arises is tested annually for impairment. Any gain on bargain purchase is recognized in profit or loss immediately. Transaction costs are expensed as incurred, except if related to the issue of debt or equity

## **POSCO and Subsidiaries**

### **Notes to the Consolidated Financial Statements, Continued**

#### **As of December 31, 2013, 2014 and 2015**

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securities. The consideration transferred does not include amounts related to the settlement of pre-existing relationships. Such amounts are generally recognized in profit or loss.

Any contingent consideration payable is measured at fair value at the acquisition date. If the contingent consideration is classified as equity, then it is not remeasured and settlement is accounted for within equity. Otherwise, subsequent changes in the fair value of the contingent consideration are recognized in profit or loss.

If share-based payment awards (replacement awards) are required to be exchanged for awards held by the acquiree's employees (acquiree's awards), then all or a portion of the amount of the acquirer's replacement awards is included in measuring the consideration transferred in the business combination. This determination is based on the market-based measure of the replacement awards compared with the market-based measure of the acquiree's awards and the extent to which the replacement awards relate to pre-combination service.

(b) Non-controlling interests

Non-controlling interests are measured at their proportionate share of the acquiree's identifiable net assets at the acquisition date.

Changes in the Company's interest in a subsidiary that do not result in a loss of control are accounted for as equity transactions.

(c) Subsidiaries

Subsidiaries are entities controlled by the Company. The Company controls an entity when it is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. The financial statements of subsidiaries are included in the consolidated financial statements from the date on which control commences until the date on which control ceases.

(d) Loss of control

When the Company loses control over a subsidiary, it derecognizes the assets and liabilities of the subsidiary, and any related non-controlling interests and other components of equity. Any resulting gain or loss is recognized in profit or loss. Any interest retained in the former subsidiary is measured at fair value when control is lost.

(e) Interests in equity-accounted investees

The Company's interests in equity-control investees comprise interests in associates and joint ventures. Associates are those entities in which the Company has significant influence, but not control or joint control, over the financial and operating policies. A joint venture is an arrangement in which the Company has joint control, whereby the Company has rights to the net assets of the arrangement, rather than rights to its assets and obligations for its liabilities.

Interests in associates and joint ventures are accounted for using the equity method. They are recognized initially at cost, which includes transaction costs. Subsequent to initial recognition, the consolidated financial statements include the Company's share of the profit or loss and other comprehensive income of equity-accounted investees, until the date on which significant influence or joint control ceases.

## **POSCO and Subsidiaries**

### **Notes to the Consolidated Financial Statements, Continued**

#### **As of December 31, 2013, 2014 and 2015**

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(f) Transactions eliminated on consolidation

Intra-group balances and transactions, and any unrealized income and expenses arising from intra-group transactions, are eliminated. Unrealized gains arising from transactions with equity-accounted investees are eliminated against the investment to the extent of the Company's interest in the investee. Unrealized losses are eliminated in the same way as unrealized gains, but only to the extent that there is no evidence of impairment.

#### **Foreign currency transactions and translation**

(a) Foreign currency transactions

Foreign currency transactions are initially recorded using the spot exchange rate between the functional currency and the foreign currency at the date of the transaction. At the end of each reporting period, foreign currency monetary items are translated using the closing rate. Non-monetary items that are measured in terms of historical cost in a foreign currency are translated using the exchange rate at the date of the original transaction. Non-monetary items that are measured at fair value in a foreign currency are translated using the exchange rate at the date fair value was initially determined.

Exchange differences arising on the settlement of monetary items or on translating monetary items at rates different from those at which they were translated on initial recognition during the period or in previous financial statements are recognized in profit or loss in the period in which they arise. When gains or losses on non-monetary items are recognized in other comprehensive income, exchange components of those gains or losses are recognized in other comprehensive income. Conversely, when gains or losses on non-monetary items are recognized in profit or loss, exchange components of those gains or losses are recognized in profit or loss.

(b) Foreign operations

If the presentation currency of the Company is different from a foreign operation's functional currency, the financial statements of the foreign operation are translated into the presentation currency using the following methods:

The assets and liabilities of foreign operations, whose functional currency is not the currency of a hyperinflationary economy, are translated to presentation currency at exchange rates at the reporting date. The income and expenses of foreign operations are translated to functional currency at exchange rates at the dates of the transactions. Foreign currency differences are recognized in other comprehensive income.

Any goodwill arising on the acquisition of a foreign operation and any fair value adjustments to the carrying amounts of assets and liabilities arising on the acquisition of that foreign operation are treated as assets and liabilities of the foreign operation. Thus, they are expressed in the functional currency of the foreign operation and translated at the closing rate.

When a foreign operation is disposed of, the relevant amount in the translation is transferred to profit or loss as part of the profit or loss on disposal. On the partial disposal of a subsidiary that includes a foreign operation, the relevant proportion of such cumulative amount is reattributed to non-controlling interest. In any other partial disposal of a foreign operation, the relevant proportion is reclassified to profit or loss.

## **POSCO and Subsidiaries**

### **Notes to the Consolidated Financial Statements, Continued**

#### **As of December 31, 2013, 2014 and 2015**

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Foreign exchange gains or losses arising from a monetary item receivable from or payable to a foreign operation, the settlement of which is neither planned nor likely to occur in the foreseeable future and which in substance is considered to form part of the net investment in the foreign operation, are recognized in other comprehensive income in the translation reserve.

#### **Cash and cash equivalents**

Cash and cash equivalents comprise cash on hand, demand deposits, and short-term investments in highly liquid securities that are readily convertible to known amounts of cash with maturities of three months or less from the acquisition date and which are subject to an insignificant risk of changes in value. Equity investments are excluded from cash and cash equivalents.

#### **Non-derivative financial assets**

The Company recognizes and measures non-derivative financial assets by the following four categories: financial assets at fair value through profit or loss, held-to-maturity financial assets, loans and receivables and available-for-sale financial assets. The Company recognizes financial assets in the consolidated statement of financial position when the Company becomes a party to the contractual provisions of the instrument.

Upon initial recognition, non-derivative financial assets are measured at their fair value plus, in the case of a financial asset not at fair value through profit or loss, transaction costs that are directly attributable to the asset's acquisition or issuance.

##### **(a) Financial assets at fair value through profit or loss**

Financial assets are classified at fair value through profit or loss if they are held for trading or designated as such upon initial recognition. Upon initial recognition, transaction costs are recognized in profit or loss when incurred. Financial assets at fair value through profit or loss are measured at fair value, and changes therein are recognized in profit or loss.

##### **(b) Held-to-maturity financial assets**

A non-derivative financial asset with a fixed or determinable payment and fixed maturity, for which the Company has the positive intention and ability to hold to maturity, is classified as held-to-maturity. Subsequent to initial recognition, held-to-maturity financial assets are measured at amortized cost using the effective interest rate method.

##### **(c) Loans and receivables**

Loans and receivables are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market. Subsequent to initial recognition, loans and receivables are measured at amortized cost using the effective interest method unless the effect of discounting is immaterial.

##### **(d) Available-for-sale financial assets**

Available-for-sale financial assets are those non-derivative financial assets that are designated as available-for-sale or are not classified as financial assets at fair value through profit or loss, held-to-maturity financial assets or loans and receivables. Subsequent to initial recognition, they are measured at fair value, with changes in fair value, net of any tax effect, recorded in other comprehensive income in equity. Investments in equity instruments that do not have a quoted market price in an active market and

## **POSCO and Subsidiaries**

### **Notes to the Consolidated Financial Statements, Continued**

#### **As of December 31, 2013, 2014 and 2015**

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whose fair value cannot be reliably measured and derivatives that are linked to and must be settled by delivery of such unquoted equity instruments are measured at cost. When a financial asset is derecognized or impairment losses are recognized, the cumulative gain or loss previously recognized in other comprehensive income is reclassified from equity to profit or loss. Dividends on an available-for-sale equity instrument are recognized in profit or loss when the Company's right to receive payment is established.

#### **(e) Derecognition of non-derivative financial assets**

The Company derecognizes non-derivative financial assets when the contractual rights to the cash flows from the financial asset expire, or the Company transfers the rights to receive the contractual cash flows from the financial asset as well as substantially all the risks and rewards of ownership of the financial asset. Any interest in a transferred financial asset that is created or retained by the Company is recognized as a separate asset or liability.

If the Company retains substantially all the risks and rewards of ownership of the transferred financial assets, the Company continues to recognize the transferred financial assets and recognizes financial liabilities for the consideration received.

#### **(f) Offsetting a financial asset and a financial liability**

Financial assets and financial liabilities are offset and the net amount is presented in the consolidated statement of financial position only when the Company currently has a legally enforceable right to offset the recognized amounts, and there is the intention to settle on a net basis or to realize the asset and settle the liability simultaneously.

### **Inventories**

Inventory costs, except materials-in-transit in which costs are determined by using specific identification method, are determined by using the moving-weighted average method. The cost of inventories comprise all costs of purchase, costs of conversion and other costs incurred in bringing the inventories to their present location and condition. The allocation of fixed production overheads to the costs of finished goods or work in progress are based on the normal capacity of the production facilities.

When inventories are sold, the carrying amount of those inventories is recognized as cost of goods sold in the period in which the related revenue is recognized. Inventories are measured at the lower of cost or net realizable value. The amount of any write-down of inventories to net realizable value and all losses of inventories are recognized as an expense in the period the write-down or loss occurs. The amount of any reversal of any write-down of inventories arising from an increase in net realizable value is recognized as a reduction in the amount of inventories recognized as a cost of goods sold in the period in which the reversal occurs.

### **Non-current assets held for sale**

Non-current assets or disposal groups comprising assets and liabilities that are expected to be recovered primarily through sale rather than through continuing use are classified as held for sale. In order to be classified as held for sale, the assets or disposal groups must be available for immediate sale in their present condition and their sale must be highly probable. The assets or disposal groups that are classified as non-current assets held for sale are measured at the lower of their carrying amount and fair value less cost to sell.

## **POSCO and Subsidiaries**

### **Notes to the Consolidated Financial Statements, Continued**

#### **As of December 31, 2013, 2014 and 2015**

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The Company recognizes an impairment loss for any initial or subsequent write-down of an asset or disposal group to fair value less costs to sell, and a gain for any subsequent increase in fair value less costs to sell, up to the cumulative impairment loss previously recognized in accordance with IAS No. 36 "Impairment of Assets".

A non-current asset that is classified as held for sale or part of a disposal group classified as held for sale is not depreciated (or amortized).

#### **Investment property**

Property held to earn rentals or for capital appreciation or both is classified as investment property. Investment property is measured initially at its cost. Transaction costs are included in the initial measurement. Subsequently, investment property is carried at depreciated cost less any accumulated impairment losses.

Subsequent costs are recognized in the carrying amount of investment property at cost or, if appropriate, as separate items if it is probable that future economic benefits associated with the item will flow to the Company and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. The costs of the day-to-day servicing are recognized in profit or loss as incurred.

Depreciation methods, useful lives and residual values are reviewed at the end of each reporting date and adjusted, if appropriate. The change is accounted for as a change in an accounting estimate.

#### **Property, plant and equipment**

Property, plant and equipment are initially measured at cost and after initial recognition, are carried at cost less accumulated depreciation and any accumulated impairment losses. The cost of property, plant and equipment includes expenditures arising directly from the construction or acquisition of the asset, any costs directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management and, when the Company has an obligation to remove the asset or restore the site, an estimate of the costs of dismantling and removing the item and restoring the site on which it is located.

The cost of replacing a part of an item is recognized in the carrying amount of the item of property, plant and equipment, if the following recognition criteria are met:

- (a) it is probable that future economic benefits associated with the item will flow to the Company;
- and
- (b) the cost can be measured reliably.

The carrying amount of the replaced part is derecognized at the time the replacement part is recognized. The costs of the day-to-day servicing of the item are recognized in profit or loss as incurred.

Items of property, plant and equipment are depreciated from the date they are available for use or, in respect of self-constructed assets, from the date that the asset is completed and ready for use. Other than land, the costs of an asset less its estimated residual value are depreciated. Depreciation of property, plant and equipment is recognized in profit or loss on a straight-line basis, which most closely reflects the expected pattern of consumption of the future economic benefits embodied in the asset, over

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the estimated useful lives of each component of an item of property, plant and equipment. Leased assets are depreciated over the shorter of the lease term and their useful lives unless it is reasonably certain that the Company will obtain ownership by the end of the lease term. Land is not depreciated.

Each part of an item of property, plant and equipment with a cost that is significant in relation to the total cost of the item is depreciated separately.

The gain or loss arising from the derecognition of an item of property, plant and equipment is included in profit or loss when the item is derecognized.

The estimated useful lives for the current and comparative periods are as follows:

Buildings .....	3-60 years
Structures .....	4-50 years
Machinery and equipment .....	2-25 years
Vehicles .....	3-10 years
Tools .....	4-10 years
Furniture and fixtures .....	3-10 years
Lease assets .....	3-20 years

The estimated residual value, useful lives and the depreciation method are reviewed at least at the end of each reporting period and, if expectations differ from previous estimates, the changes are accounted for as changes in accounting estimates.

**Borrowing costs**

The Company capitalizes borrowing costs directly attributable to the acquisition, construction or production of a qualifying asset as part of the cost of that asset. Other borrowing costs are recognized in expense as incurred. A qualifying asset is an asset that requires a substantial period of time to get ready for its intended use or sale. Financial assets and inventories that are manufactured or otherwise produced over a short period of time are not qualifying assets. Assets that are ready for their intended use or sale when acquired are not qualifying assets.

To the extent that the Company borrows funds specifically for the purpose of obtaining a qualifying asset, the Company determines the amount of borrowing costs eligible for capitalization as the actual borrowing costs incurred on that borrowing during the period less any investment income on the temporary investment of those borrowings. The Company immediately recognizes other borrowing costs as an expense. To the extent that the Company borrows funds generally and uses them for the purpose of obtaining a qualifying asset, the Company shall determine the amount of borrowing costs eligible for capitalization by applying a capitalization rate to the expenditures on that asset. The capitalization rate shall be the weighted average of the borrowing costs applicable to the borrowings of the Company that are outstanding during the period, other than borrowings made specifically for the purpose of obtaining a qualifying asset. The amount of borrowing costs that the Company capitalizes during a period shall not exceed the amount of borrowing costs incurred during that period.

**Intangible assets**

Intangible assets are measured initially at cost and, subsequently, are carried at cost less accumulated amortization and accumulated impairment losses.

Amortization of intangible assets except for goodwill is calculated on a straight-line basis over the estimated useful lives of intangible assets from the date that they are available for use. The

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residual value of intangible assets is zero. However, as there are no foreseeable limits to the periods over which club memberships are expected to be available for use, this intangible asset is determined as having an indefinite useful life and not amortized.

Intellectual property rights .....	5-10 years
Development costs .....	3-10 years
Port facilities usage rights .....	4-75 years
Other intangible assets .....	2-25 years

Amortization periods and the amortization methods for intangible assets with finite useful lives are reviewed at the end of each reporting period. The useful lives of intangible assets that are not being amortized are reviewed at the end of each reporting period to determine whether events and circumstances continue to support indefinite useful life assessments for those assets. Changes are accounted for as changes in accounting estimates.

Expenditures on research activities, undertaken with the prospect of gaining new scientific or technical knowledge and understanding, are recognized in profit or loss as incurred. Development expenditures are capitalized only if development costs can be measured reliably, the product or process is technically and commercially feasible, future economic benefits are probable, and the Company intends to and has sufficient resources to complete development and to use or sell the asset. Other development expenditures are recognized in profit or loss as incurred.

Subsequent expenditures are capitalized only when they increase the future economic benefits embodied in the specific asset to which they relate. All other expenditures, including expenditures on internally generated goodwill and brands, are recognized in profit or loss as incurred.

**Exploration for and evaluation of mineral resources**

POSCO is engaged in exploration projects for mineral resources through subsidiaries, associates and joint ventures in the mines or other contractual arrangements. Expenditures related to the development of mineral resources are recognized as exploration or development intangible assets. The nature of these intangible assets are as follows:

(a) Exploration and evaluation assets

Exploration and evaluation assets consist of expenditures for topographical studies, geophysical studies and trenching. These assets are reclassified as development assets when it is proved that the exploration has identified commercially viable mineral deposit.

(b) Development assets

When proved reserves are determined and development is sanctioned, development expenditures incurred are capitalized. These expenditures include evaluation of oil fields, construction of oil/gas wells, drilling for viability and others. On completion of development and inception of extraction for commercial production of developed proved reserves, the development assets are reclassified as either property, plant and equipment or as intellectual property rights (mining rights) under intangible assets based on the nature of the capitalized expenditure.

The respective property, plant and equipment and intellectual property (mining rights) are each depreciated and amortized based on proved reserves on a unit of production basis.

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#### **Government grants**

Government grants are not recognized unless there is reasonable assurance that the Company will comply with the grant's conditions and that the grant will be received.

(a) Grants related to assets

Government grants whose primary condition is that the Company purchase, construct or otherwise acquire long-term assets are deducted from the carrying amount of the assets and recognized in profit or loss on a systematic and rational basis over the life of the depreciable assets.

(b) Grants related to income

Government grants which are intended to compensate the Company for expenses incurred are deducted from the related expenses.

#### **Leases**

The Company classifies and accounts for leases as either a finance or operating lease, depending on the terms. Leases where the Company assumes substantially all of the risks and rewards of ownership are classified as finance leases. All other leases are classified as operating leases.

(a) Finance leases

At the commencement of the lease term, the Company recognizes as finance assets and finance liabilities the lower amount of the fair value of the leased property and the present value of the minimum lease payments, each determined at the inception of the lease. Any initial direct costs are added to the amount recognized as an asset.

Minimum lease payments are apportioned between the finance charge and the reduction of the outstanding liability. The finance charge is allocated to each period during the lease term so as to produce a constant periodic rate of interest on the remaining balance of the liability. Contingent rents are charged as expenses in the periods in which they are incurred.

The depreciable amount of a leased asset is allocated to each accounting period during the period of expected use on a systematic basis consistent with the depreciation policy the Company adopts for similar depreciable assets that are owned. If there is no reasonable certainty that the Company will obtain ownership by the end of the lease term, the asset is fully depreciated over the shorter of the lease term and its useful life.

(b) Operating leases

Lease obligations under operating leases are recognized as an expense on a straight-line basis over the lease term. Contingent rents are charged as expenses in the periods in which they are incurred.

(c) Determining whether an arrangement contains a lease

Determining whether an arrangement is, or contains, a lease is based on the substance of the arrangement and requires an assessment of whether fulfillment of the arrangement is dependent on the use of a specific asset or assets (the asset) and the arrangement conveys a right to use the asset.

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At inception or reassessment of the arrangement, management of the Company separates payments and other consideration required by such an arrangement into those for the lease and those for other elements on the basis of their relative fair values. If management of the Company concludes for a financial lease that it is impracticable to separate the payments reliably, the Company recognizes an asset and a liability at an amount equal to the fair value of the underlying asset that was identified as the subject of the lease. Subsequently, the liability shall be reduced as payments are made and an imputed finance charge on the liability recognized using the purchaser's incremental borrowing rate of interest.

#### **Impairment for financial assets**

A financial asset not carried at fair value through profit or loss is assessed at each reporting date to determine whether there is objective evidence that it is impaired. A financial asset is impaired if objective evidence indicates that a loss event has occurred after the initial recognition of the asset, and that the loss event had a negative effect on the estimated future cash flows of that asset that can be estimated reliably. However, losses expected as a result of future events, regardless of likelihood, are not recognized.

Objective evidence that a financial asset or group of financial assets are impaired includes:

- (a) significant financial difficulty of the issuer or obligor;
- (b) a breach of contract, such as a default or delinquency in interest or principal payments;
- (c) the lender, for economic or legal reasons relating to the borrower's financial difficulty, granting to the borrower a concession that the lender would not otherwise consider;
- (d) it becoming probable that the borrower will enter bankruptcy or other financial reorganization;
- (e) the disappearance of an active market for that financial asset because of financial difficulties; or
- (f) observable data indicating that there is a measurable decrease in the estimated future cash flows from a group of financial assets since the initial recognition of those assets, although the decrease cannot yet be identified with the individual financial assets in the group.

In addition, for an investment in an equity security, a significant or prolonged decline in its fair value below its cost is objective evidence of impairment.

If there is objective evidence that financial assets are impaired, impairment losses are measured and recognized.

- (a) Financial assets measured at amortized cost

An impairment loss in respect of a financial asset measured at amortized cost is calculated as the difference between its carrying amount and the present value of its estimated future cash flows discounted at the asset's original effective interest rate. If it is not practicable to obtain the instrument's estimated future cash flows, impairment losses would be measured by using prices from any observable current market transactions. The Company can recognize impairment losses directly or establish a provision to cover impairment losses. If, in a subsequent period, the amount of the impairment loss decreases and the decrease can be related objectively to an event occurring after the impairment was recognized, the previously recognized impairment loss shall be reversed either directly or by adjusting an allowance account.

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(b) Financial assets carried at cost

If there is objective evidence that an impairment loss has occurred on an unquoted equity instrument that is not carried at fair value because its fair value cannot be reliably measured, or on a derivative asset that is linked to and must be settled by delivery of such an unquoted equity instrument, the amount of the impairment loss is measured as the difference between the carrying amount of the financial asset and the present value of estimated future cash flows discounted at the current market rate of return for a similar financial asset. Such impairment losses are not reversed.

(c) Available-for-sale financial assets

When a decline in the fair value of an available-for-sale financial asset has been recognized in other comprehensive income and there is objective evidence that the asset is impaired, the cumulative loss that had been recognized in other comprehensive income shall be reclassified from equity to profit or loss as a reclassification adjustment even though the financial asset has not been derecognized. Impairment losses recognized in profit or loss for an investment in an equity instrument classified as available-for-sale are not reversed through profit or loss. If, in a subsequent period, the fair value of a debt instrument classified as available-for-sale increases and the increase can be objectively related to an event occurring after the impairment loss was recognized in profit or loss, the impairment loss shall be reversed, with the amount of the reversal recognized in profit or loss.

#### **Impairment for non-financial assets**

The carrying amounts of the Company's non-financial assets, other than assets arising from construction contracts, employee benefits, inventories, deferred tax assets and non-current assets held for sale, are reviewed at the end of the reporting period to determine whether there is any indication of impairment. If any such indication exists, then the asset's recoverable amount is estimated. Goodwill and intangible assets that have indefinite useful lives or that are not yet available for use, irrespective of whether there is any indication of impairment, are tested for impairment annually by comparing their recoverable amount to their carrying amount.

Management estimates the recoverable amount of an individual asset. If it is impossible to measure the individual recoverable amount of an asset, then management estimates the recoverable amount of cash-generating unit ("CGU"). A CGU is the smallest identifiable group of assets that generates cash inflows that are largely independent of the cash inflows from other assets or groups of assets. The recoverable amount of an asset or CGU is the greater of its value-in-use and its fair value less costs to sell. The Company determined that individual operating entities are CGUs.

The recoverable amount of an asset or CGU is the greater of its value-in-use and its fair value less costs to sell. The value-in-use is estimated by applying a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset or CGU for which estimated future cash flows have not been adjusted, to the estimated future cash flows expected to be generated by the asset or CGU.

An impairment loss is recognized if the carrying amount of an asset or a CGU exceeds its recoverable amount. Impairment losses are recognized in profit or loss.

Goodwill acquired in a business combination is allocated to each CGU that is expected to benefit from the synergies arising from the goodwill acquired. Any impairment identified at the CGU level will first reduce the carrying value of goodwill and then be used to reduce the carrying amount of

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the other assets in the CGU on a pro rata basis. Except for impairment losses in respect of goodwill which are never reversed, an impairment loss is reversed if there has been a change in the estimates used to determine the recoverable amount. An impairment loss is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortization, if no impairment loss had been recognized.

#### **Derivative financial instruments and hedges**

Derivatives are initially recognized at fair value. Subsequent to initial recognition, derivatives are measured at fair value, and changes therein are recognized in profit or loss.

(a) Embedded derivatives

Embedded derivatives are separated from the host contract and accounted for separately only if the following criteria have been met: (a) the economic characteristics and risks of the host contract and the embedded derivatives are not clearly and closely related to a separate instrument with the same terms as the embedded derivative that would meet the definition of a derivative, and (b) the hybrid (combined) instrument is not measured at fair value through profit or loss. Changes in the fair value of separable embedded derivatives from the host contract are recognized immediately in profit or loss. However, convertible rights of convertible bonds are not separated from the host contract and the compound financial instruments of bonds and convertible rights are designated and measured at fair value through profit and loss.

(b) Other derivatives

Changes in the fair value of a derivative that is not designated as a hedging instrument are recognized immediately in profit or loss.

#### **Non-derivative financial liabilities**

The Company classifies non-derivative financial liabilities into financial liabilities at fair value through profit or loss or other financial liabilities in accordance with the substance of the contractual arrangement and the definitions of financial liabilities. The Company recognizes financial liabilities in the consolidated statement of financial position when the Company becomes a party to the contractual provisions of the financial liability.

(a) Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss include financial liabilities held for trading or designated as such upon initial recognition. Subsequent to initial recognition, financial liabilities at fair value through profit or loss are measured at fair value, and changes therein are recognized in profit or loss. Upon initial recognition, transaction costs that are directly attributable to the acquisition are recognized in profit or loss as incurred.

(b) Other financial liabilities

Non-derivative financial liabilities other than financial liabilities at fair value through profit or loss are classified as other financial liabilities.

Financial guarantee liabilities are initially measured at their fair values and, if not designated as financial liabilities at fair value through profit or loss, they are subsequently measured at the higher of:

- 1) the amount of the best estimate of the expenditure required to settle the present obligation at the end of the reporting period; and

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- 2) the amount initially recognized less, cumulative amortization recognized on a straight-line basis over the guarantee period

At the date of initial recognition, other financial liabilities are measured at fair value minus transaction costs that are directly attributable to the acquisition. Subsequent to initial recognition, other financial liabilities are measured at amortized cost using the effective interest method.

The Company derecognizes a financial liability from the consolidated statement of financial position when it is extinguished (i.e. when the obligation specified in the contract is discharged, cancelled or expires).

#### **Construction work in progress**

Construction work in progress represents the gross unbilled amount expected to be collected from customers for contract work performed to date. It is measured at cost plus profit recognized to date less progress billings and recognized losses. Cost includes all expenditures related directly to specific projects and an allocation of fixed and variable overheads incurred in the Company's contract activities based on normal operating capacity.

Construction work in progress is presented as part of trade accounts and notes receivable in the consolidated statement of financial position for all contracts in which costs incurred plus recognized profits exceed progress billings. If progress billings exceed costs incurred plus recognized profits, then the difference is presented as amounts due to customers for contract work in the consolidated statement of financial position.

#### **Employee benefits**

- (a) Short-term employee benefits

Short-term employee benefits are employee benefits that are due to be settled within twelve months after the end of the period in which the employees render the related service. When an employee has rendered service to the Company during an accounting period, the Company recognizes the undiscounted amount of short-term employee benefits expected to be paid in exchange for that service as profit or loss. If the Company has a legal or constructive obligation which can be reliably measured, the Company recognizes the amount of expected payment for profit-sharing and bonuses payable as liabilities.

- (b) Other long-term employee benefits

Other long-term employee benefits include employee benefits that are settled beyond 12 months after the end of the period in which the employees render the related service, and are calculated at the present value of the amount of future benefit that employees have earned in return for their service in the current and prior periods, less the fair value of any related assets. The present value is determined by discounting the expected future cash flows using the interest rate of corporate bonds that have maturity dates approximating the terms of the Company's obligations and that are denominated in the same currency in which the benefits are expected to be paid. Any actuarial gains and losses are recognized in profit or loss in the period in which they arise.

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(c) Retirement benefits: Defined contribution plans

For defined contribution plans, when an employee has rendered service to the Company during a period, the Company recognizes the contribution payable to a defined contribution plan in exchange for that service as an accrued expense, after deducting any contributions already paid. If the contributions already paid exceed the contribution due for service before the end of the reporting period, the Company recognizes that excess as an asset (prepaid expense) to the extent that the prepayment will lead to a reduction in future payments or a cash refund.

(d) Retirement benefits: Defined benefit plans

A defined benefit plan is a post-employment benefit plan other than a defined contribution plan. The Company's net obligation in respect of defined benefit plans is calculated by estimating the amount of future benefit that employees have earned in return for their service in the current and prior periods; that benefit is discounted to determine its present value. The fair value of plan assets is deducted. The calculation is performed annually by an independent actuary using the projected unit credit method.

The discount rate is the yield at the reporting date on corporate bonds that have maturity dates approximating the terms of the Company's obligations and that are denominated in the same currency in which the benefits are expected to be paid. The Company recognizes all actuarial gains and losses arising from actuarial assumption changes and experiential adjustments in other comprehensive income when incurred.

When the fair value of plan assets exceeds the present value of the defined benefit obligation, the Company recognizes an asset, to the extent of the present value of the total of cumulative any economic benefits available in the form of refunds from the plan or reduction in the future contributions to the plan.

Remeasurements of net defined benefit liabilities, which comprise actuarial gains and losses, the return on plan assets (excluding interest) and the effect of the asset ceiling (if any, excluding interest), are recognized immediately in other comprehensive income. The Company determines the net interest expense (income) on the net defined benefit liability (asset) for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period to the then-net defined benefit liability (asset), taking into account any changes in the net defined benefit liability (asset) during the period as a result of contributions and benefit payments, net interest expense and other expenses related to defined benefit plans are recognized in profit or loss.

When the benefits of a plan are changed or when a plan is curtailed, the resulting change in benefit that relates to past service or the gain or loss in curtailment is recognized immediately in profit or loss. The Company recognizes gains and losses on the settlement of a defined benefit plan when the settlement occurs.

#### **Provisions**

Provisions are recognized when the Company has a present legal or constructive obligation as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

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The risks and uncertainties that inevitably surround many events and circumstances are taken into account in reaching the best estimate of a provision. Where the effect of the time value of money is material, provisions are determined at the present value of the expected future cash flows.

Where some or all of the expenditures required to settle a provision are expected to be reimbursed by another party, the reimbursement shall be recognized when, and only when, it is virtually certain that reimbursement will be received if the entity settles the obligation. The reimbursement shall be treated as a separate asset.

Provisions are reviewed at the end of each reporting period and adjusted to reflect the current best estimates. If it is no longer probable that an outflow of resources embodying economic benefits will be required to settle the obligation, the provision is reversed.

A provision for warranties is recognized when the underlying products are sold. The provision is based on historical warranty data and a weighting of all possible outcomes against their associated probabilities.

Regarding provision for construction warranties, warranty period starts from the completion of construction in accordance with construction contracts. If the Company has an obligation for warranties, provision for warranties which are estimated based on historical warranty data are recorded as cost of construction and provision for warranties during the construction period.

A provision for restoration regarding contamination of land is recognized in accordance with the Company's announced Environment Policy and legal requirement as needed.

A provision is used only for expenditures for which the provision was originally recognized.

#### **Emission Rights**

The Company accounts for greenhouse gases emission right and the relevant liability as below pursuant to *the Act on Allocation and Trading of Greenhouse Gas Emission* which became effective in 2015.

##### **(a) Greenhouse Gases Emission Right**

Greenhouse Gases Emission Right consists of emission allowances which are allocated from the government free of charge or purchased from the market. The cost includes any directly attributable costs incurred during the normal course of business.

Emission rights held for the purpose of performing the obligation is classified as intangible asset and is initially measured at cost and after initial recognition, are carried at cost less accumulated impairment losses. Emission rights held for short-swing profits are classified as current asset and are measured at fair value with any changes in fair value recognized as profit or loss in the respective reporting period.

The Company derecognizes an emission right asset when the emission allowance is unusable, disposed or submitted to government in which the future economic benefits are no longer expected to be probable.

##### **(b) Emission liability**

Emission liability is a present obligation of submitting emission rights to the government with regard to emission of greenhouse gas. Emission liability is recognized when there is a high possibility of outflows of resources in performing the obligation and the costs required to perform the obligation are reliably estimable. Emission liability is an amount of estimated

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obligations for emission rights to be submitted to the government for the performing period. The emission liability is measured based on the expected quantity of emission for the performing period in excess of emission allowance in possession and the unit price for such emission rights in the market at the end of the reporting period.

#### **Equity instruments**

(a) Share capital

Common stock is classified as equity and the incremental costs arising directly attributable to the issuance of common stock less their tax effects are deducted from equity.

If the Company reacquires its own equity instruments, the amount of those instruments (“treasury shares”) are presented as a contra equity account. No gain or loss is recognized in profit or loss on the purchase, sale, issuance or cancellation of its own equity instruments. When treasury shares are sold or reissued subsequently, the amount received is recognized as an increase to equity, and the resulting surplus or deficit on the transaction is recorded in capital surplus.

(b) Hybrid Bonds

Debt and equity instruments issued by the Company are classified as either financial liabilities or as equity in accordance with the substance of the contractual arrangements and the definitions of financial liability and an equity instrument. When the Company has an unconditional right to avoid delivering cash or another financial asset to settle a contractual obligation, the instruments are classified as equity instruments.

#### **Revenue**

Revenue from the sale of goods, services provided and the use of assets is measured at the fair value of the consideration received or receivable, net of returns and allowances, trade discounts and volume rebates, which are not significant for all periods presented.

(a) Sale of goods

Revenue from the sale of goods in the ordinary course of activities is measured at the fair value of the consideration received or receivable, net of returns, trade discounts and volume rebates. Revenue is recognized when persuasive evidence exists, usually in the form of an executed sales agreement, that the significant risks and rewards of ownership have been transferred to the buyer, recovery of the consideration is probable, the associated costs and possible return of goods can be estimated reliably, there is no continuing management involvement with the goods, and the amount of revenue can be measured reliably. The appropriate timing for transfer of risks and rewards varies depending on the individual terms and conditions of the sales contract. For international sales, this timing depends on the type of international commercial terms of the contract.

(b) Services rendered

Revenue from services rendered is recognized in profit or loss in proportion to the stage of completion of the transaction at the reporting date. The stage of completion is assessed by reference to surveys of work performed.

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(c) Construction contracts

Construction contracts of the Company primarily consist of contracts for the construction of plants and commercial or residential buildings (excluding certain pre-sale contracts), and revenue recognition for different types of contracts is as follows:

When the outcome of a construction contract can be estimated reliably, contract revenue is recognized in profit or loss in proportion to the stage of completion of the contract. Contract revenue includes the initial amount agreed in the contract plus any variation in contract work, claims and incentive payments, to the extent that it is probable that they will result in revenue and can be measured reliably. The stage of completion of a contract is determined based on the proportion that contract costs incurred for work performed to date bear to the estimated total contract costs.

When the outcome of a construction contract cannot be estimated reliably, the revenue is recognized only to the extent of contract costs incurred that it is probable will be recoverable. An expected loss on the construction contract is recognized as an expense immediately.

(d) Rental income

Rental income from investment property, net of lease incentives granted, is recognized in profit or loss on a straight-line basis over the term of the lease.

#### **Finance income and finance costs**

Finance income comprises interest income on funds invested (including available-for-sale financial assets), dividend income, gains on the disposal of available-for-sale financial assets and changes in the fair value of financial assets at fair value through profit or loss. Interest income is recognized as it accrues in profit or loss, using the effective interest rate method. Dividend income is recognized in profit or loss on the date that the Company's right to receive payment is established.

Finance costs comprise interest expense on borrowings and changes in the fair value of financial assets at fair value through profit or loss. Borrowing costs are recognized in profit or loss using the effective interest rate method.

#### **Income taxes**

Income tax expense comprises current and deferred tax. Current tax and deferred tax are recognized in profit or loss except to the extent that it relates to a business combination, or items recognized directly in equity or in other comprehensive income.

(a) Current income tax

Current income tax is the expected income tax payable or receivable on the taxable profit or loss for the year, using tax rates enacted or substantively enacted at the end of the reporting period and any adjustment to tax payable in respect of previous years. The taxable profit is different from the accounting profit for the period since the taxable profit is calculated excluding the temporary differences, which will be taxable or deductible in determining taxable profit of future periods, and non-taxable or non-deductible items from the accounting profit.

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#### (b) Deferred income tax

The measurement of deferred income tax liabilities and deferred tax assets reflects the tax consequences that would follow from the manner in which the Company expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

The Company recognizes a deferred income tax liability for all taxable temporary differences associated with investments in subsidiaries, associates, and joint ventures, except to the extent that the Company is able to control the timing of the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. The Company recognizes a deferred income tax asset for deductible temporary differences arising from investments in subsidiaries, associates and joint ventures, to the extent that it is probable that the temporary difference will reverse in the foreseeable future and taxable profit will be available against which the temporary difference can be utilized. However, deferred income tax is not recognized for the following temporary differences: taxable temporary differences arising on the initial recognition of goodwill, or the initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting profit or loss nor taxable income.

The carrying amount of a deferred income tax asset is reviewed at the end of each reporting period and is reduced to the extent that it is no longer probable that sufficient taxable profit will be available to allow the benefit of part or all of that deferred tax asset to be utilized.

Deferred income tax assets and liabilities are measured at the tax rates that are expected to apply to the period when the asset is realized or the liability is settled, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period. The measurement of deferred income tax liabilities and deferred income tax assets reflects the tax consequences that would follow from the manner in which the Company expects, at the end of the reporting period to recover or settle the carrying amount of its assets and liabilities.

Deferred income tax assets and liabilities are offset only if there is a legally enforceable right to offset the related current income tax liabilities and assets, and they relate to income taxes levied by the same tax authority and they intend to settle current income tax liabilities and assets on a net basis.

#### **Earnings per share**

Management calculates basic earnings per share ("EPS") data for the Company's ordinary shares, which is presented at the end of the statement of comprehensive income. Basic EPS is calculated by dividing profit attributable to ordinary shareholders of the Company by the weighted average number of ordinary shares outstanding during the period, adjusted for own shares held.

#### **Operating segments**

An operating segment is a component of the Company that : a) engages in business activities from which it may earn revenues and incur expenditures, including revenues and expenses that relate to transactions with any of the Company's other components, b) whose operating results are regularly reviewed by the Company's chief operating decision maker ("CODM") to make decisions about resources to be allocated to the segment and assess its performance and for which discrete financial information is available. Management has determined that the CODM of the Company is the CEO.

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With regard to construction segment, segment profit and loss is determined in the same way that consolidated profit after tax for the period is determined under IFRS except that revenues and expenses from the development and sale of certain residential real estate are determined by reference to the stage of completion of the contract activity at the end of the reporting period, while in the consolidated financial statements, they are recognized when an individual unit of residential real estate is delivered to the buyer. No adjustments are made for corporate allocations to segment profit and loss. In addition, segment assets and liabilities are measured based on total assets and liabilities in accordance with IFRS without any adjustment for corporate allocations, except that assets and liabilities in connection with the construction and sale of residential real estate are determined by reference to the stage of completion of the contract activity at the end of each period.

For the other segments, segment profit and loss is determined the same way that consolidated net after tax profit for the period is determined under IFRS without any adjustment for corporate allocations. The accounting policies used by each segment are consistent with the accounting policies used in the preparation of the consolidated financial statements. Segment assets and liabilities are measured based on total assets and liabilities in accordance with IFRS without any adjustment for corporate allocations. Also, segment assets and liabilities are based on the separate financial statements of the entities instead of on consolidated basis. In addition, there are varying levels of transactions amongst the reportable segments. These transactions include sales of property, plant and assets, and rendering of construction service and so on. Inter-segment transactions are accounted for on an arm's length basis.

Segment results that are reported to the CEO include items directly attributable to a segment and do not include allocated items. Segment capital expenditure is the total cost incurred during the period to acquire property, plant and equipment, and intangible assets other than goodwill.

#### **New standards and interpretations not yet adopted**

The following new standards, interpretations and amendments to existing standards have been published and are mandatory for the Company for annual periods beginning after January 1, 2015, and the Company has not early adopted them.

(a) IFRS No. 9 "Financial Instruments"

IFRS No. 9, published in July 2014, replaces the existing guidance in IAS No. 39, Financial Instruments: Recognition and Measurement. IFRS No. 9 includes revised guidance on the classification and measurement of financial instruments, a new expected credit loss model for calculating impairment on financial assets, and new general hedge accounting requirements. It also carries forward the guidance on recognition and derecognition of financial instruments from IAS No. 39. IFRS No. 9 is effective for annual periods beginning on or after January 1, 2018, with early adoption permitted.

As of December 31, 2015, the Company couldn't estimate the impact on its consolidated financial statements resulting from the application of IFRS No. 9.

(b) IFRS No. 15 "Revenue from Contracts with Customers"

IFRS No. 15, published in June 2014, establishes a comprehensive framework for determining whether, how much and when revenue is recognized. It replaces existing revenue recognition guidance, including IAS No. 18, Revenue, IAS No. 11, Construction

## **POSCO and Subsidiaries**

### **Notes to the Consolidated Financial Statements, Continued**

#### **As of December 31, 2013, 2014 and 2015**

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Contracts and IFRIC No. 13, Customer Loyalty Programmes. IFRS No. 15 is effective for annual reporting periods beginning on or after January 1, 2018, with early adoption permitted.

As of December 31, 2015, The Company couldn't estimate the impact on its consolidated financial statements resulting from the application of IFRS No. 15.

(c) IFRS No. 16 "Leases"

IFRS No. 16, published in January 2016, replaces the existing guidance in IAS No. 17, Leases. IFRS No. 16 eliminates the classification of leases as either operating leases or finance leases for a lessee. Instead all leases are treated in a similar way to finance leases applying IAS No. 17. Leases are 'capitalized' by recognizing the present value of the lease payments and showing them either as lease assets (right-of-use assets) or together with property, plant and equipment. If lease payments are made over time, a company also recognizes a financial liability representing its obligation to make future lease payments. IFRS No. 16 is effective for annual reporting periods beginning on or after January 1, 2019. Early adoption is permitted for companies that also adopt IFRS No. 15.

As of December 31, 2015, The Company couldn't estimate the impact on its consolidated financial statements resulting from the application of IFRS No. 16.

#### **4. Financial risk management**

The Company has exposure to the following risks from its use of financial instruments:

- credit risk
- liquidity risk
- market risk
- capital risk

This note presents information about the Company's exposure to each of the above risks, the Company's objectives, policies and processes for measuring and managing risk, and the Company's management of capital. Further quantitative disclosures are included throughout these consolidated financial statements.

(a) Financial risk management

1) Risk management policy

The Board of Directors has overall responsibility for the establishment and oversight of the Company's risk management framework. The Company's risk management policies are established to identify and analyze the risks faced by the Company, to set appropriate risk limits and controls, and to monitor risks and adherence to limits. Risk management policies and systems are reviewed regularly to reflect changes in market conditions and the Company's activities.

The Company, through its training and management standards and procedures, aims to develop a disciplined and constructive control environment in which all employees understand their roles and obligations.

## **POSCO and Subsidiaries**

### **Notes to the Consolidated Financial Statements, Continued**

#### **As of December 31, 2013, 2014 and 2015**

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#### 2) Credit risk

Credit risk is the risk of financial loss to the Company if a customer or counterparty to a financial instrument fails to meet its contractual obligations, and arises principally from the Company's receivables from customers and investment securities. In addition, credit risk arises from finance guarantees.

The Company implements a credit risk management policy under which the Company only transacts business with counterparties that have a certain level of credit rate evaluated based on financial condition, historical experience, and other factors. The Company's exposure to credit risk is influenced mainly by the individual characteristics of each customer. The default risk of a nation or an industry in which a customer operates its business does not have a significant influence on credit risk. The Company has established a credit policy under which each new customer is analyzed individually for creditworthiness.

The Company establishes an allowance for impairment that represents its estimate of incurred losses in respect of trade and other receivables. The main components of this allowance are a specific loss component that relates to individually significant exposures, and a collective loss component established for companies of similar assets in respect of losses that have been incurred but not yet identified. The collective loss allowance is determined based on historical data of payment statistics for similar financial assets. Debt securities are analyzed individually, and an expected loss shall be directly deducted from debt securities.

Credit risk also arises from transactions with financial institutions, and such transactions include transactions of cash and cash equivalents, various deposits, and financial instruments such as derivative contracts. The Company manages its exposure to this credit risk by only entering into transactions with banks that have high international credit ratings. The Company's treasury department authorizes, manages, and oversees new transactions with financial institutions with whom the Company has no previous relationship. Furthermore, the Company limits its exposure to credit risk of financial guarantee contracts by strictly evaluating their necessity based on internal decision making processes, such as the approval of the Board of Directors.

#### 3) Liquidity risk management

Liquidity risk is the risk that the Company will encounter difficulty in meeting the obligations associated with its financial liabilities that are settled by delivering cash or another financial asset. The Company's approach to managing liquidity is to ensure, as far as possible, that it will always have sufficient liquidity to meet its liabilities when due, under both normal and stressed conditions, without incurring unacceptable losses or risking damage to the Company's reputation.

The Company's cash flow from business, borrowing or financing is sufficient to meet the cash requirements for the Company's strategic investments. Management believes that the Company is capable of raising funds by borrowing or financing if the Company is not able to generate cash flow requirements from its operations. The Company has committed borrowing facilities with various banks.

## POSCO and Subsidiaries

### Notes to the Consolidated Financial Statements, Continued

#### As of December 31, 2013, 2014 and 2015

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#### 4) Market risk management

Market risk means that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices. The goal of market risk management is optimization of profit and controlling the exposure to market risk within acceptable limits.

##### ① Currency risk

Each segment is influenced by a risk factor of changes in foreign currency exchange rates for the different directions due to the difference in structure of each industry regarding the cash inflows and cash outflows in foreign currency. The steel segment and the engineering and construction segments have excessive foreign currency inflows, while other segment including entities in electricity industry has a lack of foreign currency cash inflows. The trading segment is structured such that the cash inflows and outflows of foreign currencies are to be offset; however, the trading segment is exposed to a risk of changes in foreign currency exchange rates when there are differences in currencies on receiving and paying the foreign currency amount and time differences.

The Company's policy in respect of foreign currency risks is a natural hedge whereby foreign currency income is offset with foreign currency expenditures. The remaining net exposures after the natural hedge have been hedged using derivative contracts such as forward exchange contracts. In addition, the Company's derivative transactions are limited to hedging actual foreign currency transactions and speculative hedging is not permitted. Based on this policy, the Company entities have performed currency risk management specific to various characteristics of different segments. The entities in the steel industry, which have excessive foreign currency inflows converted from lack, reduces the foreign currency exposure by repayment of foreign currency borrowings subjected to investment in overseas when its maturities come. The entities in the engineering and construction segments, which have excessive foreign currency cash flows, have hedged foreign currency risks by using forward exchange contracts. Entities in the trading industry have hedged foreign currency risks by using forward exchange contracts when the foreign currencies received and paid are different.

##### ② Interest rate risk

The Company manages the exposure to interest rate risk by adjusting of borrowing structure ratio between borrowings at fixed interest rates and variable interest rate. The Company monitors interest rate risks regularly in order to avoid exposure to interest rate risk on borrowings at variable interest rate.

##### ③ Other market price risk

Equity price risk arises from listed equity securities among available-for-sale equity securities. Management of the Company measures regularly the fair value of listed equity securities and the risk of variance in future cash flow caused by market price fluctuations. Significant investments are managed separately and all buy and sell decisions are approved by management of the Company.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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(b) Management of capital risk

The fundamental goal of capital management is the maximization of shareholders' value by means of the stable dividend policy and the retirement of treasury shares. The capital structure of the Company consists of equity and net debt, deducting cash and cash equivalents and current financial instruments from borrowings. The Company applied the same financial risk management strategy that was applied in the previous period.

Net borrowing-to-equity ratio as of December 31, 2014 and 2015 is as follows:

	2014	2015
	(in millions of Won)	
Total borrowings	₩ 27,428,257	25,220,231
Less: Cash and cash equivalents	3,811,202	4,870,185
Net borrowings	23,617,055	20,350,046
Total equity	45,257,396	45,013,201
Net borrowings-to-equity ratio	52.18%	45.21%

**5. Cash and Cash Equivalents**

Cash and cash equivalents as of December 31, 2014 and 2015 are as follows:

	2014 <sup>(*)1</sup>	2015 <sup>(*)1</sup>
	(in millions of Won)	
Cash	₩ 2,100	2,632
Demand deposits and checking accounts	1,209,367	1,318,677
Time deposits	1,185,146	2,911,928
Other cash equivalents <sup>(*)2</sup>	1,414,589	636,948
	₩ 3,811,202	4,870,185

(\*)1 Cash and cash equivalents as of December 31, 2014 and 2015 in the statement of cash flows are different from the amounts in the statement of financial position as disclosed above by ₩999 million and ₩210,934 million, as the information disclosed above does not include cash and cash equivalents held by POSCO Specialty Steel Co., Ltd., and others which were classified as asset groups held for sale as of December 31, 2014 and 2015 (Note 10).

(\*)2 Mainly includes money market trust and others.

**6. Trade Accounts and Notes Receivable**

(a) Trade accounts and notes receivable as of December 31, 2014 and 2015 are as follows:

	2014	2015
	(in millions of Won)	
<b>Current</b>		
Trade accounts and notes receivable	₩ 10,814,881	8,951,108
Finance lease receivables	24,344	21,042
Unbilled due from customers for contract work	1,406,678	1,199,497
Less: Allowance for doubtful accounts	(581,316)	(596,383)
	₩ 11,664,587	9,575,264
<b>Non-current</b>		
Trade accounts and notes receivable	₩ 60,583	126,200
Finance lease receivables	42,907	22,758
Less: Allowance for doubtful accounts	(24,154)	(28,620)
	₩ 79,336	120,338

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

Trade accounts and notes receivable sold to financial institutions, for which the derecognition conditions were not met, amounted to ₩2,030,342 million and ₩846,676 million as of December 31, 2014 and 2015, respectively. The fair value of trade accounts and notes receivable approximates the carrying amounts and trade accounts and notes receivable are included in short-term borrowings from financial institutions (Note 17).

(b) Finance lease receivables are as follows:

<u>Customer</u>	<u>Contents</u>	<u>2014</u>	<u>2015</u>
	(in millions of Won)		
Korea Electric Power Corporation .....	Combined thermal power plant#1~4	₩ 66,858	42,536
KC CHEMICAL Co., Ltd. ....	Machinery and equipment	393	380
Hystech Co. Ltd. ....	Machinery and equipment	—	884
		<u>₩ 67,251</u>	<u>43,800</u>

(c) The gross amount and present value of minimum lease payments as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
Less than 1 year .....	₩ 32,302	27,382
1 year – 5 years .....	51,999	25,643
Unrealized interest income .....	(17,050)	(9,225)
Present value of minimum lease payment .....	<u>₩ 67,251</u>	<u>43,800</u>

**7. Other Receivables**

Other receivables as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
<b>Current</b>		
Short-term loans .....	₩ 254,108	405,281
Other accounts receivable .....	1,523,659	1,255,075
Accrued income .....	76,393	136,762
Deposits .....	58,384	89,444
Others .....	227,192	20,383
Less : Allowance for doubtful accounts .....	(183,520)	(227,066)
	<u>₩1,956,216</u>	<u>1,679,879</u>
<b>Non-current</b>		
Long-term loans .....	₩ 960,652	725,968
Long-term other accounts receivable .....	158,018	142,290
Accrued income .....	1,533	1,236
Deposits .....	189,120	141,373
Less : Allowance for doubtful accounts .....	(165,163)	(147,609)
	<u>₩1,144,160</u>	<u>863,258</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**8. Other Financial Assets**

Other financial assets as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
<b>Current</b>		
Derivatives assets held for trading	₩ 77,182	94,603
Available-for-sale securities	25,512	17,994
Current portion of held-to-maturity securities	15,297	21,490
Short-term financial instruments <sup>(1,2)</sup>	1,344,929	3,776,300
	<u>₩ 1,462,920</u>	<u>3,910,387</u>
<b>Non-current</b>		
Derivatives assets held for trading <sup>(3)</sup>	₩ 19,084	93,886
Available-for-sale securities (equity instruments) <sup>(4,5)</sup>	2,294,244	2,095,206
Available-for-sale securities (bonds)	33,350	36,914
Available-for-sale securities (others)	67,135	59,630
Held-to-maturity securities	1,796	1,889
Long-term financial instruments <sup>(2)</sup>	40,291	53,935
	<u>₩ 2,455,900</u>	<u>2,341,460</u>

(\*1) As of December 31, 2014 and 2015, ₩5,465 million and ₩6,593 million, respectively, are restricted for use in a government project.

(\*2) As of December 31, 2014 and 2015, financial instruments amounting to ₩177,014 million and ₩105,195 million, respectively, are restricted for use in financial arrangements, pledge and others.

(\*3) The Company assessed the values of its put option and earn-out consideration in relation to the residual equity upon the Company's disposal of SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.). Accordingly, the Company has recognized derivatives assets for the values of both amounting to ₩63,300 million and ₩14,992 million, respectively, as of December 31, 2015.

(\*4) During the year ended December 31, 2014 and 2015, there were objective evidences of impairment for listed equity securities such as Hyundai Heavy Industries Co., Ltd. and others due to the significant decline in the fair value of the shares or the continuous decline for a prolonged period and non-listed equity securities such as Dongbu Metal Co., Ltd and others since those carrying amounts significantly exceed those fair values. As a result, an impairment loss of ₩369,723 million and ₩142,781 million was recognized in profit or loss during the year ended December 31, 2014 and 2015, respectively.

(\*5) As of December 31, 2014 and 2015, ₩173,632 million and ₩124,541 million of available-for-sale securities, respectively, have been provided as collateral for borrowings, construction projects and others.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**9. Inventories**

(a) Inventories as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
Finished goods .....	₩ 1,647,331	1,381,018
Merchandise .....	902,347	715,951
Semi-finished goods .....	1,654,556	1,390,382
Raw materials .....	2,334,992	1,868,773
Fuel and materials .....	759,193	810,516
Construction inventories .....	1,831,383	1,169,748
Materials-in-transit .....	2,109,207	1,382,291
Others .....	96,274	79,581
	<u>11,335,283</u>	<u>8,798,260</u>
Less: Allowance for inventories valuation .....	(161,940)	(231,378)
	<u>₩11,173,343</u>	<u>8,566,882</u>

(b) The changes of allowance for inventories valuation for the years ended December 31, 2013, 2014 and 2015 were as follows:

	<u>2013</u>	<u>2014</u>	<u>2015</u>
	(in millions of Won)		
Beginning .....	₩214,795	189,282	161,940
Loss on valuation of inventories .....	49,172	41,713	152,952
Write-off .....	(73,220)	(69,996)	(77,102)
Reversal and others .....	(1,465)	941	(6,412)
Ending .....	<u>₩189,282</u>	<u>161,940</u>	<u>231,378</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**10. Assets Held for Sale**

Details of assets held for sale and related liabilities as of December 31, 2014 and 2015 are as follows:

	2014			2015		
	Controlling company <sup>(*3,7)</sup>	Subsidiaries <sup>(*4,5,6,7)</sup>	Total	Controlling company <sup>(*1)</sup>	Subsidiaries <sup>(*2,7)</sup>	Total
	(in millions of Won)					
<b>Assets</b>						
Cash and cash equivalents .....	₩ —	210,934	210,934	—	999	999
Trade accounts and notes receivable and other receivables .....	—	90,811	90,811	—	7,724	7,724
Other financial assets .....	580,062	21,028	601,090	—	—	—
Inventories .....	—	289,716	289,716	—	2,129	2,129
Property, plant and equipment .....	2,672	895,391	898,063	25,892	10,383	36,275
Intangible assets .....	—	7,627	7,627	—	1,049	1,049
Other assets .....	—	28,846	28,846	—	9,105	9,105
	<u>₩582,734</u>	<u>1,544,353</u>	<u>2,127,087</u>	<u>25,892</u>	<u>31,389</u>	<u>57,281</u>
<b>Liabilities</b>						
Trade accounts and notes payable and other payables .....	₩ —	225,403	225,403	—	6,028	6,028
Borrowings .....	—	330,059	330,059	—	26,500	26,500
Other liabilities .....	—	35,520	35,520	—	1,674	1,674
	<u>₩ —</u>	<u>590,982</u>	<u>590,982</u>	<u>—</u>	<u>34,202</u>	<u>34,202</u>

- (\*1) The Company determined to exchange 1FINEX facilities with the shares of newly established company in India, and has signed in Memorandum of Association (MOA) with Uttam Galva Steels Limited in India. The Company has classified the related facilities of ₩25,892 million as assets held for sale.
- (\*2) The Company determined to dispose of its shares in POSCO LED Co., Ltd., a subsidiary of the Company, and agreed to Memorandum of Understanding (MOU) with Armitron consortium on December 30, 2015. The Company classified the accompanying assets and liabilities as assets and liabilities held for sale.
- (\*3) During the year ended December 31, 2014, the Company determined to dispose of its shares in Nacional Minerios S.A., which was an available-for-sale investment of the Company, in exchange for shares in the newly incorporated entity as Nacional Minerios S.A. entered into a merger agreement with another entity. Accordingly, the Company classified its investment in Nacional Minerios S.A. as assets held for sale. The Company recognized ₩95,737 million of impairment loss on assets held for sale during the year ended December 31, 2015 since the fair value less cost to sell was below carrying amount. The accompanying transaction was completed during the year ended December 31, 2015, and the Company recognized ₩188,927 million of loss on disposal of assets held for sale.
- (\*4) The Company determined to dispose of 52.2% of its shares in SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.) to SeAH Besteel Corp. and classified the accompanying investment in the subsidiary as assets and liabilities held for sale during the year ended December 31, 2014. Disposal of the asset held for sale was completed during the year ended December 31, 2015, and the Company recognized ₩161,579 million of gain on disposal of assets held for sale.
- (\*5) The Company determined to dispose of the shares in POSFINE Co., Ltd., a subsidiary of the Company, to Hahn & Company PRIVATE EQUITY FUND No.1, and classified the accompanying investment in the subsidiary as assets and liabilities held for sale during the year ended December 31, 2014. Disposal of the assets and liabilities held for sale was completed during the year ended December 31, 2015, and the Company recognized ₩38,843 million of gain on disposal of assets held for sale.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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(\*6) Daewoo International Corporation, a subsidiary of the Company, determined to dispose its Daewoo Department Store located in Masan and classified the assets and liabilities of the accompanying department as assets and liabilities held for sale during the year ended December 31, 2014. Disposal of the assets held for sale was completed during the year ended December 31, 2015, and the Company recognized ₩121 million of gain on disposal of assets held for sale.

(\*7) Besides the above, the controlling company and subsidiaries of the Company (POSCO M-TECH, POSCO COATED & COLOR STEEL Co., Ltd., POSCO CHEMTECH and POSCO AST) determined to dispose of certain tangible assets including land and disused facilities and classified them as assets held for sale.

**11. Investments in Associates and Joint ventures**

(a) Investments in associates and joint ventures as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	<u>(in millions of Won)</u>	
Investments in associates .....	₩ 1,626,801	1,875,971
Investments in joint ventures .....	2,433,706	2,069,362
	<u>₩ 4,060,507</u>	<u>3,945,333</u>

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements, Continued

### As of December 31, 2013, 2014 and 2015

(b) Details of investments in associates as of December 31, 2014 and 2015 are as follows:

Company	2014		2015		
	Book value	Number of shares	Ownership (%)	Acquisition cost	Book value
		(in millions of Won)			
<b>[Domestic]</b>					
EQP POSCO Global NO1 Natural Resources PEF . . .	₩ 176,899	178,565	28.93	₩178,566	₩ 175,676
POSCO PLANTEC Co., Ltd. <sup>(*)</sup> . . . . .	—	133,711,880	73.94	217,282	171,218
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.) <sup>(2,3,5)</sup> . . . . .	—	7,190,000	19.94	159,978	165,754
SNNC . . . . .	131,671	18,130,000	49.00	90,650	111,326
QSONE Co., Ltd. . . . .	83,849	200,000	50.00	84,395	83,919
UITrans LRT Co., Ltd. <sup>(4)</sup> . . . . .	30,098	6,350,997	38.19	31,755	40,903
Incheon-Gimpo Expressway Co., Ltd. <sup>(4)</sup> . . . . .	43,045	9,032,539	22.32	45,163	39,447
BLUE OCEAN Private Equity Fund . . . . .	31,439	333	27.52	33,300	35,437
Chuncheon Energy Corp. . . . .	—	6,573,600	29.90	32,868	30,420
KoFC POSCO HANWHA KB Shared Growth NO. 2. Private Equity Fund <sup>(5)</sup> . . . . .	12,268	15,475	12.50	15,475	14,829
Daesung Steel Co. <sup>(5)</sup> . . . . .	—	108,038	17.54	14,000	14,000
Keystone-HYUNDAI SECURITIES NO. 1. Private Equity Fund . . . . .	—	13,800,000	40.45	13,800	13,015
CHUNGJU ENTERPRISE CITY DEVELOPMENT Co., Ltd <sup>(4)</sup> . . . . .	19,801	2,008,000	25.10	10,040	12,265
KONES, Corp. . . . .	5,430	3,250,000	41.67	6,893	5,775
Others (30 companies) <sup>(4)</sup> . . . . .	33,511				33,933
	<u>568,011</u>				<u>947,917</u>
<b>[Foreign]</b>					
South-East Asia Gas Pipeline Company Ltd. . . . .	172,805	135,219,000	25.04	150,779	222,269
AES-VCM Mong Duong Power Company Limited . . . .	93,021	—	30.00	74,161	153,271
7623704 Canada Inc. <sup>(5)</sup> . . . . .	117,100	114,452,000	10.40	124,341	134,034
Eureka Moly LLC . . . . .	228,004	—	20.00	240,123	87,878
Nickel Mining Company SAS . . . . .	107,408	3,234,698	49.00	157,585	76,445
AMCI (WA) PTY LTD . . . . .	88,050	49	49.00	209,664	72,289
KOREA LNG LTD. . . . .	72,089	2,400	20.00	135,205	53,548
NCR LLC . . . . .	32,598	—	29.41	32,348	35,447
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., Ltd . . . . .	21,032	10,200,000	34.00	9,517	19,311
PT. Batutua Tembaga Raya . . . . .	14,653	128,285	24.10	14,785	15,382
PT. Wampu Electric Power <sup>(4)</sup> . . . . .	7,611	8,708,400	20.00	10,044	8,855
POSCO SeAH Steel Wire(Nantong) Co., Ltd. . . . .	6,969	50	25.00	4,723	7,061
CAML RESOURCES PTY LTD . . . . .	38,240	3,239	33.34	40,388	—
Others (22 companies) <sup>(4)</sup> . . . . .	59,210				42,264
	<u>1,058,790</u>				<u>928,054</u>
	<u>₩1,626,801</u>				<u>₩1,875,971</u>

(\*1) On September 30, 2015, in order to improve its financial standing and normalize operation, the associate reached a workout agreement with its Creditor Financial Institutions Committee. As a result, the Company lost its control and classified its shares as investment in an associate.

(\*2) During the year ended December 31, 2015, the Company disposed of 52.2% of shares in SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.), which resulted in the Company's loss of control, and the Company classified the remaining investment as investment in an associate.

(\*3) During the year ended December 31, 2015, POSCO Specialty Steel Co., Ltd. changed its corporate name to SeAH Changwon Integrated Special Steel.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(\*4) Investment in associates is provided as collateral related to associates' borrowings amounting to ₩110,721 million and ₩101,360 million as of December 31, 2014 and 2015, respectively.

(\*5) As of December 31, 2015, it was classified as an associate even though the Company's ownership percentage is less than 20% since the Company has significant influence over the investee when considering its structure of the Board of Directors and others.

(c) Details of investments in joint ventures as of December 31, 2014 and 2015 are as follows:

Company	2014		2015		
	Book value	Number of shares	Ownership (%)	Acquisition cost	Book value
		(in millions of Won)			
<b>[Domestic]</b>					
POSCO MITSUBISHI CARBON TECHNOLOGY	₩ 112,837	11,568,000	60.00	₩ 115,680	₩ 104,970
POSCO ES MATERIALS	38,021	1,000,000	50.00	43,000	38,447
	<u>150,858</u>				<u>143,417</u>
<b>[Foreign]</b>					
Roy Hill Holdings Pty Ltd (*1)	1,268,678	13,117,972	12.50	1,528,672	1,153,434
POSCO-NPS Niobium LLC	357,874	325,050,000	50.00	364,609	381,461
DMSA/AMSA (*2)	165,094	—	4.07	265,612	105,964
BX STEEL POSCO Cold Rolled Sheet Co., Ltd.	98,893	—	25.00	61,961	100,908
CSP — Companhia Siderurgica do Pecem	260,906	827,771,230	20.00	469,891	80,805
KOBRASCO	99,787	2,010,719,185	50.00	32,950	78,364
Others (11 companies)	31,616				25,009
	<u>2,282,848</u>				<u>1,925,945</u>
	<u>₩ 2,433,706</u>				<u>₩ 2,069,362</u>

(\*1) As of December 31, 2014 and 2015, investment in joint ventures amounting to ₩1,268,678 million and ₩1,153,434 million, respectively, are provided as collateral in relation to loan.

(\*2) As of December 31, 2014 and 2015, investment in joint ventures amounting to ₩165,094 million and ₩105,964 million, respectively, are provided as collateral for the joint venture's guarantees.

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements, Continued

### As of December 31, 2013, 2014 and 2015

(d) The movements of investments in associates and joint ventures for the years ended December 31, 2014 and 2015 were as follows:

1) For the year ended December 31, 2014

Company	December 31, 2013		Dividends	Share of profits (losses)	Other increase (decrease) <sup>(*)</sup>	December 31, 2014 Book value
	Book value	Acquisition				
(in millions of Won)						
<b>[Domestic]</b>						
EQP POSCO Global NO1 Natural Resources PEF	₩ 177,563	—	—	(664)	—	176,899
POSCO PLANTEC Co., Ltd.	234,203	25,356	—	(210,616)	(48,943)	—
SNNC	123,969	—	(5,149)	13,873	(1,022)	131,671
QSONE Co., Ltd.	84,096	—	—	(247)	—	83,849
UITrans LRT Co., Ltd.	19,185	2,330	—	8,583	—	30,098
Incheon-Gimpo Expressway Co., Ltd.	37,759	8,331	—	(340)	(2,705)	43,045
BLUE OCEAN Private Equity Fund	29,391	—	—	2,193	(145)	31,439
KoFC POSCO HANWHA KB Shared Growth	6,685	6,113	—	(530)	—	12,268
NO. 2. Private Equity Fund	23,733	—	—	(3,714)	(218)	19,801
CHUNGJU ENTERPRISE CITY DEVELOPMENT Co., Ltd.	5,784	—	—	(378)	24	5,430
KONES, Corp.	4,996	—	—	(354)	—	4,642
Gunggi Green Energy	115,708	—	—	(2,835)	(36)	112,837
POSCO MITSUBISHI CARBON TECHNOLOGY	40,386	—	—	(2,229)	(136)	38,021
POSCO ES MATERIALS	52,761	12,875	—	(24,284)	(12,483)	28,869
Others (31 companies)	956,219	55,005	(5,149)	(221,542)	(65,664)	718,869
<b>[Foreign]</b>						
South-East Asia Gas Pipeline Company Ltd.	140,202	—	—	25,638	6,965	172,805
AES-VCM Mong Duong Power Company Limited	81,436	—	—	(3,845)	15,430	93,021
7623704 Canada Inc.	119,516	—	(5,505)	(1,678)	4,767	117,100
Eureka Moly LLC	217,513	—	—	(37)	10,528	228,004
Nickel Mining Company SAS	135,178	—	—	(17,391)	(10,379)	107,408
AMCI (WA) PTY LTD	98,467	—	—	(6,477)	(3,940)	88,050
KOREA LNG LTD.	64,453	—	(18,668)	18,613	7,691	72,089
NCR LLC	30,496	—	—	(3,984)	6,086	32,598
CAML RESOURCES PTY LTD	43,820	—	—	(2,191)	(3,389)	38,240
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., Ltd.	20,600	—	(352)	378	406	21,032
PT. Batutua Tembaga Raya	—	14,785	—	—	(132)	14,653
PT. Wampu Electric Power	7,237	—	—	134	240	7,611
POSCO SeAH Steel Wire(Nantong) Co., Ltd.	6,083	—	—	679	207	6,969
VSC POSCO Steel Corporation	9,464	—	(1,850)	7	—	7,621
Roy Hill Holdings Pty Ltd	825,901	530,492	—	(14,783)	(72,932)	1,268,678
POSCO-NPS Niobium LLC	343,590	—	(16,414)	16,370	14,328	357,874
DMSA/AMSA	180,355	—	—	(21,793)	6,532	165,094
BX STEEL POSCO Cold Rolled Sheet Co., Ltd.	96,309	—	—	943	1,641	98,893
CSP - Companhia Siderurgica do Pecem	263,419	75,966	—	(57,127)	(21,352)	260,906
KOBRASCO	95,233	—	(18,429)	30,356	(7,373)	99,787
Others (34 companies)	73,202	50,605	(858)	(42,163)	2,419	83,205
	2,852,474	671,848	(62,076)	(78,351)	(42,257)	3,341,638
₩	3,808,693	726,853	(67,225)	(299,893)	(107,921)	4,060,507

(\*1) Other increase or decrease represents the changes in investments in associates and joint ventures due to disposals and change in capital adjustments arising from translations of financial statements of foreign investees and others.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

2) For the year ended December 31, 2015

Company	December 31, 2014 Book value	Acquisition	Dividends	Share of profits (losses)	Other increase (decrease) <sup>(*)</sup>	December 31, 2015 Book value
	(in millions of Won)					
<b>[Domestic]</b>						
EQP POSCO Global NO1 Natural Resources PEF	₩ 176,899	—	—	(1,223)	—	175,676
POSCO PLANTEC Co., Ltd.	—	217,282	—	(46,058)	(6)	171,218
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.)	—	159,978	—	6,464	(688)	165,754
SNNC	131,671	—	—	(20,566)	221	111,326
QSONE Co., Ltd.	83,849	—	—	70	—	83,919
UITrans LRT Co., Ltd.	30,098	9,777	—	1,086	(58)	40,903
Incheon-Gimpo Expressway Co., Ltd.	43,045	—	—	(3,910)	312	39,447
BLUE OCEAN Private Equity Fund	31,439	—	—	5,645	(1,647)	35,437
Chuncheon Energy Corp.	—	32,853	—	(2,433)	—	30,420
KoFC POSCO HANWHA KB Shared Growth NO. 2. Private Equity Fund	12,268	3,725	—	211	(1,375)	14,829
Daesung Steel Co.	—	14,000	—	—	—	14,000
Keystone-HYUNDAI SECURITIES NO. 1. Private Equity Fund	—	13,800	—	(451)	(334)	13,015
CHUNGJU ENTERPRISE CITY DEVELOPMENT Co., Ltd.	19,801	—	—	(7,536)	—	12,265
KONES, Corp.	5,430	—	—	311	34	5,775
POSCO MITSUBISHI CARBON TECHNOLOGY	112,837	—	—	(7,841)	(26)	104,970
POSCO ES MATERIALS	38,021	—	—	440	(14)	38,447
Others (30 companies)	33,511	3,800	—	2,877	(6,255)	33,933
	<u>718,869</u>	<u>455,215</u>	<u>—</u>	<u>(72,914)</u>	<u>(9,836)</u>	<u>1,091,334</u>
<b>[Foreign]</b>						
South-East Asia Gas Pipeline Company Ltd.	172,805	—	(18,602)	54,351	13,715	222,269
AES-VCM Mong Duong Power Company Limited	93,021	23,146	—	29,561	7,543	153,271
7623704 Canada Inc.	117,100	—	(1,775)	10,875	7,834	134,034
Eureka Moly LLC	228,004	—	—	(147,270)	7,144	87,878
Nickel Mining Company SAS	107,408	—	—	(25,562)	(5,401)	76,445
AMCI (WA) PTY LTD	88,050	—	—	(11,222)	(4,539)	72,289
KOREA LNG LTD.	72,089	—	(12,195)	12,362	(18,708)	53,548
NCR LLC	32,598	—	—	(62)	2,911	35,447
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., Ltd	21,032	—	(376)	(1,787)	442	19,311
PT. Batutua Tembaga Raya	14,653	—	—	—	729	15,382
PT. Wampu Electric Power	7,611	1,015	—	(261)	490	8,855
POSCO SeAH Steel Wire(Nantong) Co., Ltd.	6,969	—	—	(76)	168	7,061
CAML RESOURCES PTY LTD	38,240	—	—	(34,987)	(3,253)	—
Roy Hill Holdings Pty Ltd	1,268,678	—	—	(61,589)	(53,655)	1,153,434
POSCO-NPS Niobium LLC	357,874	—	(13,177)	12,967	23,797	381,461
DMSA/AMSA	165,094	72,430	—	(137,723)	6,163	105,964
BX STEEL POSCO Cold Rolled Sheet Co., Ltd.	98,893	—	—	291	1,724	100,908
CSP - Compania Siderurgica do Pecem	260,906	—	—	(145,206)	(34,895)	80,805
KOBRASCO	99,787	—	(24,380)	31,124	(28,167)	78,364
Others (33 companies)	90,826	2,839	(5,506)	(18,926)	(1,960)	67,273
	<u>3,341,638</u>	<u>99,430</u>	<u>(76,011)</u>	<u>(433,140)</u>	<u>(77,918)</u>	<u>2,853,999</u>
	<u>₩ 4,060,507</u>	<u>554,645</u>	<u>(76,011)</u>	<u>(506,054)</u>	<u>(87,754)</u>	<u>3,945,333</u>

(\*1) Other increase or decrease represents the changes in investments in associates and joint ventures due to disposals, change in capital adjustments arising from translations of financial statements of foreign investees and others.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(e) Summarized financial information of associates and joint ventures as of and for years ended December 31, 2014 and 2015 is as follows:

1) December 31, 2014

Company	Assets	Liabilities	Equity (deficit)	Sales	Net income (loss)
	(in millions of Won)				
<b>[Domestic]</b>					
EQP POSCO Global NO1 Natural Resources					
PEF .....	₩ 621,960	1,044	620,916	—	(576)
SNNC .....	826,597	528,246	298,351	345,836	41,117
QSONE Co., Ltd. ....	247,590	79,891	167,699	13,674	(603)
UITrans LRT Co., Ltd. ....	169,574	117,996	51,578	—	(887)
Incheon-Gimpo Expressway Co., Ltd. ....	337,639	172,464	165,175	—	(1,148)
BLUE OCEAN Private Equity Fund .....	361,810	247,573	114,237	574,476	8,489
KoFC POSCO HANWHA KB Shared Growth					
NO. 2. Private Equity Fund .....	100,063	1,917	98,146	1,932	(4,238)
CHUNGJU ENTERPRISE CITY					
DEVELOPMENT Co., Ltd .....	256,207	208,960	47,247	5,240	(14,798)
KONES, Corp. ....	3,756	3,155	601	7,269	(907)
Gunggi Green Energy .....	328,976	264,278	64,698	124,181	(4,720)
POSCO MITSUBISHI CARBON					
TECHNOLOGY .....	405,387	218,275	187,112	—	(4,725)
POSCO ES MATERIALS .....	64,088	19,602	44,486	13,403	(4,459)
<b>[Foreign]</b>					
South-East Asia Gas Pipeline Company					
Ltd. ....	1,997,068	1,306,957	690,111	353,439	102,385
7623704 Canada Inc. ....	1,138,126	4	1,138,122	—	(612)
Nickel Mining Company SAS .....	410,230	140,860	269,370	133,975	(24,800)
KOREA LNG LTD. ....	393,581	45	393,536	94,936	93,067
CAML RESOURCES PTY LTD .....	159,281	38,591	120,690	172,093	(6,570)
Zhongyue POSCO (Qinhuangdao) Tinplate					
Industrial Co., Ltd .....	148,077	80,538	67,539	186,733	1,112
PT. Batutua Tembaga Raya .....	100,142	151,591	(51,449)	1,309	(2,110)
VSC POSCO Steel Corporation .....	38,388	26,942	11,446	103,877	73
PT. Wampu Electric Power .....	172,950	138,012	34,938	43,184	670
POSCO SeAH Steel Wire(Nantong) Co.,					
Ltd. ....	66,097	38,572	27,525	80,059	2,636
Roy Hill Holdings Pty Ltd. ....	6,809,416	3,431,438	3,377,978	—	(118,264)
POSCO-NPS Niobium LLC .....	715,546	—	715,546	—	32,741
DMSA/AMSA .....	8,938,860	5,918,665	3,020,195	695,505	(544,837)
BX STEEL POSCO Cold Rolled Sheet Co.,					
Ltd. ....	816,813	448,854	367,959	1,290,490	3,771
CSP - Compania Siderurgica do Pecem ....	3,060,008	1,467,004	1,593,004	—	(90,649)
KOBRASCO .....	234,595	35,021	199,574	99,677	60,712

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

2) December 31, 2015

Company	Assets	Liabilities	Equity (deficit)	Sales	Net income (loss)
	(in millions of Won)				
<b>[Domestic]</b>					
EQP POSCO Global NO1 Natural Resources PEF .....	₩ 607,966	1,043	606,923	—	(1,231)
POSCO PLANTEC Co., Ltd. ....	609,655	725,406	(115,751)	457,180	(330,819)
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.) .....	1,293,143	568,639	724,504	971,557	23,403
SNNC .....	793,480	551,830	241,650	509,044	(57,156)
QSONE Co., Ltd. ....	249,482	81,644	167,838	15,068	140
UITrans LRT Co., Ltd. ....	343,744	267,543	76,201	—	(846)
Incheon-Gimpo Expressway Co., Ltd. ....	648,602	458,137	190,465	—	(1,567)
BLUE OCEAN Private Equity Fund .....	380,000	244,316	135,684	492,065	24,422
Chuncheon Energy Corp. ....	149,025	42,094	106,931	—	(2,389)
KoFC POSCO HANWHA KB Shared Growth NO. 2. Private Equity Fund .....	119,747	1,112	118,635	5,012	1,804
Daesung Steel Co. ....	163,331	115,475	47,856	13,798	(1,725)
Keystone-HYUNDAI SECURITIES NO. 1. Private Equity Fund .....	68,315	31,626	36,689	—	(1,956)
<b>CHUNGJU ENTERPRISE CITY</b>					
DEVELOPMENT Co., Ltd. ....	154,695	137,471	17,224	21,518	(30,023)
KONES, Corp. ....	3,544	2,114	1,430	5,337	746
POSCO MITSUBISHI CARBON TECHNOLOGY .....	489,393	315,392	174,001	—	(13,068)
POSCO ES MATERIALS .....	84,719	39,381	45,338	29,214	880
<b>[Foreign]</b>					
South-East Asia Gas Pipeline Company Ltd. ....	2,223,846	1,333,048	890,798	554,927	220,203
7623704 Canada Inc. ....	1,300,951	7	1,300,944	76,114	118,007
Nickel Mining Company SAS .....	445,685	238,695	206,990	155,980	(45,748)
KOREA LNG LTD. ....	257,773	36	257,737	63,574	61,806
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., Ltd .....	107,874	45,534	62,340	114,994	(5,783)
PT. Batutua Tembaga Raya .....	286,761	268,933	17,828	—	—
PT. Wampu Electric Power .....	201,383	160,159	41,224	17,473	(1,304)
POSCO SeAH Steel Wire(Nantong) Co., Ltd. ....	65,973	38,336	27,637	67,700	(403)
CAML RESOURCES PTY LTD .....	136,112	41,768	94,344	146,909	(20,110)
Roy Hill Holdings Pty Ltd .....	9,295,492	6,584,536	2,710,956	—	(492,709)
POSCO-NPS Niobium LLC .....	762,719	—	762,719	—	25,935
DMSA/AMSA .....	6,415,380	4,812,244	1,603,136	737,604	(3,308,836)
BX STEEL POSCO Cold Rolled Sheet Co., Ltd. ....	703,408	327,391	376,017	936,590	1,162
CSP - Companhia Siderurgica do Pecem .....	3,839,967	3,319,880	520,087	—	(721,937)
KOBRASCO .....	187,823	31,094	156,729	94,169	62,248

**12. Joint Operations**

Details of significant joint operations that the Company is participating in as a party to a joint arrangement as of December 31, 2015 are as follows:

Joint operations	Operation	Ownership (%)	Location
Myanmar A-1/A-3 mine .....	Mine development	51.00	Myanmar
Offshore midstream .....	Mine development	51.00	Myanmar
Greenhills mine .....	Mine development	20.00	Canada
Arctos Anthracite coal project .....	Mine development	20.00	Canada
Mt. Thorley J/V .....	Mine development	20.00	Australia
POSMAC J/V .....	Mine development	20.00	Australia
CD J/V .....	Mine development	5.00	Australia
RUM J/V .....	Mine development	10.00	Australia

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**13. Investment Property, Net**

(a) Investment property as of December 31, 2014 and 2015 are as follows:

	2014			2015		
	Acquisition cost	Accumulated depreciation and impairment loss	Book value	Acquisition cost	Accumulated depreciation and impairment loss	Book value
	(in millions of Won)					
Land .....	₩ 447,350	(31,838)	415,512	378,717	(31,838)	346,879
Buildings .....	681,924	(90,277)	591,647	806,030	(109,504)	696,526
Structures .....	4,058	(1,998)	2,060	3,971	(2,152)	1,819
Construction-in-progress .....	46,373	—	46,373	39,068	—	39,068
	<u>₩ 1,179,705</u>	<u>(124,113)</u>	<u>1,055,592</u>	<u>1,227,786</u>	<u>(143,494)</u>	<u>1,084,292</u>

As of December 31, 2015, the fair value of investment property is ₩1,513,111 million, among which the Company evaluated the investment property of three subsidiaries, including HOTEL LAONZENA acquired during the year ended December 31, 2015, as its book value since it is believed that the book value of ₩70,607 million approximates fair value. Also, the Company used the prior year's fair value for some of the investment property since it is believed to be approximately the same as prior year's fair value.

(b) Changes in the carrying value of investment property for the years ended December 31, 2014 and 2015 were as follows:

1) For the year ended December 31, 2014

	Beginning	Acquisitions	Business combination	Disposals	Depreciation <sup>(*)</sup>	Others <sup>(*)</sup>	Ending
Land .....	₩ 161,502	97,883	13	(20,500)	—	176,614	415,512
Buildings .....	239,193	195,722	208	(19,212)	(12,858)	188,594	591,647
Structures .....	3,599	—	—	—	(413)	(1,126)	2,060
Construction-in-progress ..	20,935	112,998	—	—	—	(87,560)	46,373
	<u>₩ 425,229</u>	<u>406,603</u>	<u>221</u>	<u>(39,712)</u>	<u>(13,271)</u>	<u>276,522</u>	<u>1,055,592</u>

(\*) Impairment loss on investment property amounting to ₩23 million is included.

(\*) Includes reclassification resulting from changing purpose of use, adjustment of foreign currency translation difference and others.

2) For the year ended December 31, 2015

	Beginning	Acquisitions	Business combination	Disposals	Depreciation <sup>(*)</sup>	Others <sup>(*)</sup>	Ending
Land .....	₩ 415,512	2,665	5,964	(433)	(85)	(76,744)	346,879
Buildings .....	591,647	49,281	26,750	(909)	(25,391)	55,148	696,526
Structures .....	2,060	40	—	—	(173)	(108)	1,819
Construction-in-progress .....	46,373	9,492	—	—	—	(16,797)	39,068
	<u>₩ 1,055,592</u>	<u>61,478</u>	<u>32,714</u>	<u>(1,342)</u>	<u>(25,649)</u>	<u>(38,501)</u>	<u>1,084,292</u>

(\*) Impairment loss on investment property amounting to ₩85 million is included.

(\*) Includes reclassification resulting from changing purpose of use, adjustment of foreign currency translation difference and others.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**14. Property, Plant and Equipment, Net**

(a) Property, plant and equipment as of December 31, 2014 and 2015 are as follows:

	2014				2015			
	Acquisition cost	Accumulated depreciation and impairment loss	Government grants	Book value	Acquisition cost	Accumulated depreciation and impairment loss	Government grants	Book value
	(in millions of Won)							
Land	₩ 2,801,288	—	—	2,801,288	2,572,807	—	—	2,572,807
Buildings	8,824,462	(3,460,858)	(4,280)	5,359,324	8,982,405	(3,816,242)	(438)	5,165,725
Structures	5,106,863	(2,076,499)	(201)	3,030,163	5,217,953	(2,268,465)	(75)	2,949,413
Machinery and equipment	43,972,182	(22,771,455)	(842)	21,199,885	45,547,591	(24,453,433)	(415)	21,093,743
Vehicles	304,346	(247,611)	(40)	56,695	303,366	(251,315)	(46)	52,005
Tools	360,625	(296,517)	(39)	64,069	372,440	(298,586)	(376)	73,478
Furniture and fixtures	577,126	(433,330)	(14)	143,782	590,046	(441,565)	(382)	148,099
Finance lease assets	162,154	(82,073)	—	80,081	168,601	(75,805)	—	92,796
Construction-in-progress	2,511,009	—	(5,101)	2,505,908	2,379,890	—	(5,101)	2,374,789
	<u>₩ 64,620,055</u>	<u>(29,368,343)</u>	<u>(10,517)</u>	<u>35,241,195</u>	<u>66,135,099</u>	<u>(31,605,411)</u>	<u>(6,833)</u>	<u>34,522,855</u>

(b) Changes in the carrying value of property, plant and equipment for the years ended December 31, 2014 and 2015 were as follows:

1) For the year ended December 31, 2014

	Beginning	Acquisitions	Business combination	Disposals	Depreciation (*1)	Others (*2)	Ending
	(in millions of Won)						
Land	₩ 2,708,010	92,645	146,755	(10,410)	(1,839)	(133,873)	2,801,288
Buildings	4,888,835	97,701	72,483	(18,968)	(372,445)	691,718	5,359,324
Structures	2,784,587	42,341	15,525	(3,517)	(223,487)	414,714	3,030,163
Machinery and equipment	19,442,836	372,448	26,998	(45,777)	(2,194,014)	3,597,394	21,199,885
Vehicles	51,033	17,665	614	(2,136)	(20,166)	9,685	56,695
Tools	62,853	29,351	4,210	(578)	(33,480)	1,713	64,069
Furniture and fixtures	173,152	41,113	1,599	(2,291)	(70,938)	1,147	143,782
Finance lease assets	100,524	2,710	—	(31)	(29,825)	6,703	80,081
Construction-in-progress	5,548,289	2,804,568	19,156	(14,088)	—	(5,852,017)	2,505,908
	<u>₩ 35,760,119</u>	<u>3,500,542</u>	<u>287,340</u>	<u>(97,796)</u>	<u>(2,946,194)</u>	<u>(1,262,816)</u>	<u>35,241,195</u>

(\*1) Impairment loss on property, plant and equipment amounting to ₩64,833 million are included.

(\*2) Includes reclassification for changing purpose of use, adjustments of foreign currency translation differences and others.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

2) For the year ended December 31, 2015

	Beginning	Acquisitions	Business combination	Disposals	Depreciation <sup>(*)1</sup>	Others <sup>(*)2</sup>	Ending
	(in millions of Won)						
Land .....	₩ 2,801,288	47,858	12,520	(30,222)	(1,517)	(257,120)	2,572,807
Buildings .....	5,359,324	57,042	56,156	(20,759)	(349,774)	63,736	5,165,725
Structures .....	3,030,163	23,149	—	(3,819)	(213,550)	113,470	2,949,413
Machinery and equipment ...	21,199,885	239,430	301	(74,445)	(2,244,183)	1,972,755	21,093,743
Vehicles .....	56,695	9,735	—	(1,601)	(18,221)	5,397	52,005
Tools .....	64,069	25,230	1,714	(1,169)	(29,401)	13,035	73,478
Furniture and fixtures .....	143,782	43,697	1,497	(1,502)	(63,754)	24,379	148,099
Finance lease assets .....	80,081	598	157	(98)	(9,026)	21,084	92,796
Construction-in-progress .....	2,505,908	2,245,729	—	(4,418)	(17,846)	(2,354,584)	2,374,789
	<u>₩ 35,241,195</u>	<u>2,692,468</u>	<u>72,345</u>	<u>(138,033)</u>	<u>(2,947,272)</u>	<u>(397,848)</u>	<u>34,522,855</u>

(\*)1 Impairment loss on property, plant and equipment amounting to ₩136,269 million are included.

(\*)2 Includes reclassification for changing purpose of use, adjustment of foreign currency translation differences and others.

(c) Borrowing costs capitalized and the capitalized interest rate for the years ended December 31, 2014 and 2015 were as follows:

	2014	2015
	(in millions of Won)	
Weighted average expenditure .....	₩ 1,772,492	1,733,503
Borrowing costs capitalized .....	76,566	40,990
Capitalization rate (%) .....	1.69 ~ 4.19	3.02 ~ 4.24

(d) Property, plant and equipment and investment property pledged as collateral as of December 31, 2014 and 2015 are as follows:

	Collateral right holder	2014	2015
		(in millions of Won)	
Land (* 1) .....	Korean Development Bank and others	₩ 1,040,850	826,802
Buildings and structures (* 1) .....	Korean Development Bank and others	1,324,597	1,446,605
Machinery and equipment .....	Korean Development Bank and others	3,594,331	4,260,206
Tools .....	Korean Development Bank	104	162
Construction-in-progress .....	Export-Import Bank of Korea	—	1,000,318
		<u>₩ 5,959,882</u>	<u>7,534,093</u>

(\*)1 Investment property and other assets (land-use right) are included.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**15. Goodwill and Other Intangible Assets, Net**

(a) Goodwill and other intangible assets as of December 31, 2014 and 2015 are as follows:

	2014				2015			
	Acquisition cost	Accumulated amortization and impairment	Government grants	Book value	Acquisition cost	Accumulated amortization and impairment	Government grants	Book value
	(in millions of Won)							
Goodwill	₩1,932,065	(136,921)	—	1,795,144	1,660,395	(198,441)	—	1,461,954
Intellectual property rights	2,910,143	(146,544)	(920)	2,762,679	2,848,990	(181,098)	(806)	2,667,086
Premium in rental	150,438	(19,496)	—	130,942	148,141	(20,192)	—	127,949
Development expense	330,365	(161,263)	(356)	168,746	337,318	(201,278)	(244)	135,796
Port facilities usage rights	506,125	(349,681)	—	156,444	625,991	(361,190)	—	264,801
Exploration and evaluation assets	123,025	(30,566)	—	92,459	181,710	(30,566)	—	151,144
Customer relationships	859,023	(217,398)	—	641,625	857,417	(297,608)	—	559,809
Power generation permit	539,405	—	—	539,405	539,405	—	—	539,405
Other intangible assets	1,159,574	(562,014)	(15)	597,545	966,761	(468,934)	(17)	497,810
	<u>₩8,510,163</u>	<u>(1,623,883)</u>	<u>(1,291)</u>	<u>6,884,989</u>	<u>8,166,128</u>	<u>(1,759,307)</u>	<u>(1,067)</u>	<u>6,405,754</u>

(b) The changes in carrying value of goodwill and other intangible assets for the years ended December 31, 2014 and 2015 were as follows:

1) For the year ended December 31, 2014

	Beginning	Acquisitions	Business combination	Disposals	Amortization	Impairment loss	Others <sup>(*)3</sup>	Ending
Goodwill <sup>(*)1</sup>	₩ 1,615,938	—	187,285	—	—	(11,297)	3,218	1,795,144
Intellectual property rights	1,474,859	199,850	32	(218)	(143,548)	(27,720)	1,259,424	2,762,679
Premium in rental <sup>(*)2</sup>	131,267	8,775	1,661	(4,484)	(265)	(2,609)	(3,403)	130,942
Development expense	61,102	18,032	2,659	(3,484)	(56,453)	(9,366)	156,256	168,746
Port facilities usage rights	167,111	433	—	—	(12,462)	—	1,362	156,444
Exploration and evaluation assets	359,748	32,191	—	—	—	(718)	(298,762)	92,459
Mining development assets	968,191	1,484	—	—	—	—	(969,675)	—
Customer relationships	692,880	—	—	—	(53,969)	—	2,714	641,625
Power generation permit <sup>(*)4</sup>	—	—	539,405	—	—	—	—	539,405
Other intangible assets <sup>(*)5</sup>	458,744	262,076	88,808	(665)	(77,243)	(717)	(133,458)	597,545
	<u>₩ 5,929,840</u>	<u>522,841</u>	<u>819,850</u>	<u>(8,851)</u>	<u>(343,940)</u>	<u>(52,427)</u>	<u>17,676</u>	<u>6,884,989</u>

(\*1) During the year ended December 31, 2014, goodwill arising from business combination amounting to ₩180,418 million were included in relation to the acquisition of POSCO PLANTEC Co., Ltd.

(\*2) Premium in rental includes memberships with indefinite useful lives.

(\*3) Includes reclassification, adjustments of foreign currency translation differences and others.

(\*4) POSCO ENERGY CO., LTD. recognized power generation permit amounting to ₩539,405 million in relation to operation permit for electricity business when acquiring POSPOWER CO., Ltd.

(\*5) During the year ended December 31, 2014, POSCO ENGINEERING & CONSTRUCTION., LTD. recognized other intangible assets and other provisions amounting to ₩169,000 million in relation to project financing agreements on the Urban Development Project in Gaepo-dong, Seoul.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

2) For the year ended December 31, 2015

	Beginning	Acquisitions	Disposals	Amortization	Impairment loss	Others <sup>(*)2</sup>	Ending
	(in millions of Won)						
Goodwill	₩1,795,144	—	—	—	(99,052)	(234,138)	1,461,954
Intellectual property rights	2,762,679	127,112	(3,921)	(192,660)	(20,725)	(5,399)	2,667,086
Premium in rental <sup>(*)1</sup>	130,942	13,530	(10,594)	(171)	(2,413)	(3,345)	127,949
Development expense	168,746	6,749	(1,084)	(53,740)	(3,034)	18,159	135,796
Port facilities usage rights	156,444	—	—	(11,810)	—	120,167	264,801
Exploration and evaluation assets	92,459	61,427	—	—	—	(2,742)	151,144
Customer relationships	641,625	—	—	(51,808)	(28,402)	(1,606)	559,809
Power generation permit	539,405	—	—	—	—	—	539,405
Other intangible assets	597,545	88,105	(488)	(71,394)	(7,531)	(108,427)	497,810
	<u>₩6,884,989</u>	<u>296,923</u>	<u>(16,087)</u>	<u>(381,583)</u>	<u>(161,157)</u>	<u>(217,331)</u>	<u>6,405,754</u>

(\*1) Premium in rental includes memberships with indefinite useful lives.

(\*2) Includes reclassification, adjustments of foreign currency translation differences and others.

(c) For the purpose of impairment testing, goodwill is allocated to individually operating entities which are determined to be CGUs. The goodwill amounts as of December 31, 2014 and 2015 are as follows:

Reporting segments	Total number of CGUs		CGUs	(in millions of Won)	
	2014	2015		2014	2015
Steel	10	9	POSCO VST CO., LTD.	₩ 36,955	36,955
			POSCO Thainox Public Company Limited <sup>(*)3</sup>	16,206	—
			Others	13,623	13,279
Trading	3	3	Daewoo International Corporation <sup>(*)1</sup>	1,163,922	1,163,922
			Others	9,918	7,638
E&C	5	4	POSCO Engineering Co., Ltd. <sup>(*)2</sup>	194,637	194,637
			POSCO PLANTEC Co., Ltd. <sup>(*)4,5)</sup>	180,418	—
			EPC EQUITIES LLP <sup>(*)3</sup>	44,719	—
			Others	14,802	12,558
Others	9	7	POSCO ENERGY Co., LTD.	26,471	26,471
			PONUtech Co., Ltd <sup>(*)5</sup>	77,298	—
			Others	16,175	6,494
Total	<u>27</u>	<u>23</u>		<u>₩ 1,795,144</u>	<u>1,461,954</u>

(\*1) Recoverable amounts of Daewoo International Corporation are determined based on its value in use. As of December 31, 2015, value in use is estimated by applying 7.0% discount rate and 1.8% terminal growth rate with five years, the period for the estimated future cash flows, based on management's business plan. The key assumption for the estimated future cash flow projections for the next five years is the revenue growth rate. The terminal growth rate does not exceed long-term average growth rate of its industry. No impairment loss on goodwill was recognized during the year ended December 31, 2015 as the recoverable amount exceeded the carrying value of the CGU.

The estimated recoverable amount of CGU exceeded the carrying value by ₩45,891 million. Value in use of the CGU was affected by the assumptions such as discount rate and terminal growth used in discount cash flow model. When the discount rate increases by 0.25%, value in use will be decreased by 3.78% and when the terminal growth rate decreases by 0.25%, value in use will be decreased by 1.21%.

Management believes that any reasonably possible negative change in the key assumptions on which the recoverable amount is based would cause incurrence of impairment loss of goodwill.

(\*2) Recoverable amounts of POSCO Engineering CO., Ltd are determined based on its value in use. As of December 31, 2015, value in use is estimated by applying 9.4% discount rate and 1.0% terminal growth rate with five years. The estimated future

## POSCO and Subsidiaries

### Notes to the Consolidated Financial Statements, Continued

#### As of December 31, 2013, 2014 and 2015

cash flows for the next five years are based on management's business plan. The terminal growth rate does not exceed long-term average growth rate of its industry. No impairment loss of goodwill was recognized during the year ended December 31, 2015 as the recoverable amount exceeded the carrying value of the CGU.

The estimated recoverable amount of CGU exceeded the carrying value by ₩1,742 million. Value in use of the CGU was affected by the assumptions such as discount rate and terminal growth used in discount cash flow model. When the discount rate increases by 0.25%, value in use will be decreased by 2.27% and when the terminal growth rate decreases by 0.25%, value in use will be decreased by 1.59%.

Management believes that any reasonably possible negative change in the key assumptions on which the recoverable amount is based would cause incurrence of impairment loss of goodwill.

- (\*3) Recoverable amounts of POSCO Thainox Public Company Limited and EPC EQUITIES LLP were determined based on their value in use. Impairment losses of ₩15,886 million and ₩45,635 million were recognized during the year ended December 31, 2015 since the recoverable amounts were below carrying amount.
- (\*4) Recoverable amount of POSCO PLANTEC Co., Ltd. was determined based on fair value less cost to sell. Impairment loss of ₩37,531 million was recognized during the year ended December 31, 2015 since the recoverable amount was below carrying amount.
- (\*5) The Company lost its control during the year ended December 31, 2015.

#### 16. Other Assets

Other current assets and other non-current assets as of December 31, 2014 and 2015 are as follows:

	2014	2015
	(in millions of Won)	
<b>Current</b>		
Advance payments .....	₩ 845,114	696,839
Prepaid expenses .....	129,914	107,379
Others .....	1,397	4,034
	<u>976,425</u>	<u>808,252</u>
<b>Non-current</b>		
Long-term advance payments .....	3,454	3,467
Long-term prepaid expenses .....	243,933	403,536
Others <sup>(*)</sup> .....	260,162	221,997
	<u>₩ 507,549</u>	<u>629,000</u>

- (\*1) As of December 31, 2014 and 2015, the Company recognized tax assets amounting to ₩143,157 million and ₩132,489 million, respectively, based on the Company's best estimate of the tax amounts to be refunded when the results of the Company's appeal in connection with the additional income tax payment for prior years as a result of tax audits that were finalized in 2014 and claim for rectification are finalized.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**17. Borrowings**

(a) Short-term borrowings and current portion of long-term borrowings as of December 31, 2014 and 2015 are as follows:

	Bank	Issuance date	Maturity date	Interest rate (%)	2014	2015
(in millions of Won)						
<b>Short-term borrowings</b>						
Bank overdrafts	Bank of America and others	January, 2015~ December, 2015	January, 2016~ December, 2016	0.3~5.0 W	105,673	129,891
Short-term borrowings	HSBC and others	January, 2015~ December, 2015	January, 2016~ December, 2016	0.1~13.5	9,138,804	8,285,869
					9,244,477	8,415,760
<b>Current portion of long-term liabilities</b>						
Current portion of long-term borrowings	Export-Import Bank of Korea and others	June, 2003~ December, 2015	January, 2016~ December, 2016	0.5~6.7	1,159,090	1,318,276
Current portion of foreign loan (*1)	NATIXIS	March, 1986	September, 2016	2.0	418	401
Current portion of debentures	Korean Development Bank and others	August, 2006~ June, 2015	March, 2016~ December, 2016	0.9~5.9	1,793,252	2,637,614
Less: Current portion of discount on debentures issued					(1,753)	(1,019)
					2,951,007	3,955,272
					W12,195,484	12,371,032

(\*1) Korea Development Bank has provided guarantees related to the foreign loan.

(b) Long-term borrowings, excluding current portion as of December 31, 2014 and 2015 are as follows:

	Bank	Issuance date	Maturity date	Interest rate (%)	2014	2015
(in millions of Won)						
Long-term borrowings	Export-Import Bank of Korea and others	January, 1983~ September, 2015	January, 2017~ December, 2099	0.4~9.8	W 7,359,773	6,814,753
Less: Present value discount					(109,949)	(76,828)
Foreign loan (*1)	NATIXIS	March, 1986	March, 2017	2.0	627	200
Bonds	Korean Development Bank and others	August, 2009~ November, 2015	March, 2017~ October, 2023	1.2~6.3	8,009,547	6,134,132
Less: Discount on debentures issued					(27,225)	(23,058)
					W15,232,773	12,849,199

(\*1) Korea Development Bank has provided guarantees related to the foreign loan.

(c) Property, plant and equipment including investment property, trade accounts and notes receivable, financial assets, available-for-sale financial assets, inventories and other assets amounting to ₩7,367,425 million, ₩22,649 million (ninety seven of notes receivable), ₩78,561 million, ₩9,520 million, ₩71,504 million and ₩157,475 million, respectively, are provided as collateral related to short-term borrowings, long-term borrowings and debentures.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**18. Other Payables**

Other payables as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
<b>Current</b>		
Accounts payable .....	₩ 1,082,676	983,408
Accrued expenses .....	740,250	759,598
Dividend payable .....	12,077	6,453
Finance lease liabilities .....	21,888	26,876
Withholdings .....	337,822	352,758
	<u>₩ 2,194,713</u>	<u>2,129,093</u>
<b>Non-current</b>		
Accounts payable .....	₩ 81,344	22,665
Accrued expenses .....	25,886	30,221
Finance lease liabilities .....	24,815	14,409
Long-term withholdings .....	37,941	67,175
	<u>₩ 169,986</u>	<u>134,470</u>

**19. Other Financial Liabilities**

Other financial liabilities as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
<b>Current</b>		
Derivatives liabilities (**1) .....	₩ 84,146	117,841
Financial guarantee liabilities .....	27,491	84,276
	<u>₩ 111,637</u>	<u>202,117</u>
<b>Non-current</b>		
Derivatives liabilities .....	₩ 64,926	37,661
Financial guarantee liabilities .....	26,169	17,035
	<u>₩ 91,095</u>	<u>54,696</u>

(\*\*1) The Company assessed the values of call option of SeAH Besteel Corp. in relation to the residual equity held by the Company upon the disposal of SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.). Accordingly, the Company has recognized derivatives liabilities amounting to ₩8,118 million as of December 31, 2015.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**20. Provisions**

(a) Provisions as of December 31, 2014 and 2015 are as follows:

	2014		2015	
	Current	Non-current	Current	Non-current
	(in millions of Won)			
Provision for bonus payments	₩ 49,505	—	42,602	—
Provision for construction warranties	16,352	63,996	10,656	70,790
Provision for legal contingencies and claims <sup>(*)</sup>	—	50,424	—	52,610
Provisions for the restoration <sup>(**)</sup>	39,336	35,462	15,569	26,357
Others <sup>(**3,4)</sup>	44,837	73,357	33,493	71,935
	<u>₩ 150,030</u>	<u>223,239</u>	<u>102,320</u>	<u>221,692</u>

(\*1) The Company recognized probable outflow of resources amounting to ₩44,309 million and ₩46,001 million as provisions for legal contingencies and asserted claims in relation to lawsuits against the Company as of December 31, 2014 and 2015, respectively.

(\*2) Due to contamination of land near the Company's magnesium smelting plant located in Gangneung province, a provision has been recognized with a present value of estimated costs for recovery. In order to compute the estimated costs, the Company has assumed that it would use all of technologies and materials available for now to recover the land. In addition, the Company has applied a discount rate of 2.67% to assess present value of these costs.

(\*3) As of December 31, 2014 and 2015, POSCO ENERGY CO., LTD., a subsidiary of the Company, recognized ₩31,577 million and ₩41,638 million of provisions for warranties, respectively, for the service contract on fuel cell cased on its estimate of probable outflow of resources.

(\*4) As of December 31, 2014 and 2015, the amount includes a provision of ₩23,600 million for expected outflow of resources in connection with the performance guarantee for the Hwaseong-Dongtan complexes development project of POSCO ENGINEERING & CONSTRUCTION Co., Ltd.

(b) The following are the key assumptions concerning the future and other key sources of estimation uncertainties at the end of the reporting period.

	Key assumptions for the estimation
Provision for bonus payments	Estimations based on financial performance
Provision for construction warranties	Estimations based on historical warranty data
Provision for legal contingencies and claims	Estimations based on the degree of probability of an unfavorable outcome and the ability to make a sufficient reliable estimate of the amount of loss

(c) Changes in provisions for the years ended December 31, 2014 and 2015 were as follows:

1) For the year ended December 31, 2014

	Beginning	Increase	Utilization	Reversal	Others <sup>(*)</sup>	Ending
	(in millions of Won)					
Provision for bonus payments	₩ 52,377	45,071	(46,761)	(1,646)	464	49,505
Provision for construction warranties	55,696	34,410	(15,719)	(4,677)	10,638	80,348
Provision for legal contingencies and claims	30,330	15,289	—	(7,716)	12,521	50,424
Provisions for the restoration	4,385	89,565	(19,328)	—	176	74,798
Others	110,813	282,406	(258,571)	(19,523)	3,069	118,194
	<u>₩ 253,601</u>	<u>466,741</u>	<u>(340,379)</u>	<u>(33,562)</u>	<u>26,868</u>	<u>373,269</u>

(\*1) Includes adjustments of foreign currency translation differences and others.

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**Notes to the Consolidated Financial Statements, Continued**  
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2) For the year ended December 31, 2015

	<u>Beginning</u>	<u>Increase</u>	<u>Utilization</u>	<u>Reversal</u>	<u>Others <sup>(*)</sup></u>	<u>Ending</u>
	(in millions of Won)					
Provision for bonus payments	₩ 49,505	46,420	(49,563)	(1,493)	(2,267)	42,602
Provision for construction warranties	80,348	33,698	(21,166)	(4,822)	(6,612)	81,446
Provision for legal contingencies and claims	50,424	15,998	(2,467)	(4,058)	(7,287)	52,610
Provisions for the restoration	74,798	2,293	(35,461)	—	296	41,926
Others	118,194	59,219	(46,994)	(15,425)	(9,566)	105,428
	<u>₩ 373,269</u>	<u>157,628</u>	<u>(155,651)</u>	<u>(25,798)</u>	<u>(25,436)</u>	<u>324,012</u>

(\*1) Includes adjustments of foreign currency translation differences and others.

**21. Employee Benefits**

(a) Defined contribution plans

The expenses related to post-employment benefit plans under defined contribution plans for the years ended December 31, 2013, 2014 and 2015 were as follows:

	<u>2013</u>	<u>2014</u>	<u>2015</u>
	(in millions of Won)		
Expense related to post-employment benefit under defined contribution plans	₩ 19,126	23,414	25,224

(b) Defined benefit plans

1) The amounts recognized in relation to net defined benefit liabilities in the statements of financial position as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
Present value of funded obligations	₩ 1,713,074	1,702,735
Fair value of plan assets	(1,427,918)	(1,532,090)
Present value of non-funded obligations	5,169	11,380
Net defined benefit liabilities	<u>₩ 290,325</u>	<u>182,025</u>

2) Changes in present value of defined benefit obligations for the years ended December 31, 2014 and 2015 were as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
Defined benefit obligation at the beginning of period	₩ 1,520,643	1,718,243
Current service costs	230,445	239,508
Interest costs	54,737	47,039
Remeasurements :	85,166	(63,364)
— Loss (gain) from change in demographic assumptions	18,911	(10,017)
— Loss (gain) from change in financial assumptions	54,131	(37,367)
— Others	12,124	(15,980)
Business combinations	48,695	—
Benefits paid	(160,792)	(157,983)
Others	(60,651)	(69,328)
Defined benefit obligation at the end of period	<u>₩ 1,718,243</u>	<u>1,714,115</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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3) Changes in fair value of plan assets for the years ended December 31, 2014 and 2015 were as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
Fair value of plan assets at the beginning of period	₩ 1,247,483	1,427,918
Interest on plan assets	47,296	41,145
Remeasurement of plan assets	(11,236)	(8,515)
Contributions to plan assets <sup>(*)</sup>	273,867	243,082
Business combinations	30,863	—
Benefits paid	(109,352)	(127,808)
Others	(51,003)	(43,732)
Fair value of plan assets at the end of period	<u>₩ 1,427,918</u>	<u>1,532,090</u>

(\*) The Company expects to make an estimated contribution of ₩242,062 million to the defined benefit plan assets in 2016.

4) The fair value of plan assets as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	(in millions of Won)	
Equity instruments	₩ 43,010	58,987
Debt instruments	236,665	134,679
Deposits	997,414	1,294,442
Others	150,829	43,982
	<u>₩ 1,427,918</u>	<u>1,532,090</u>

5) The amounts recognized in consolidated statements of comprehensive income for the years ended December 31, 2013, 2014 and 2015 were as follows:

	<u>2013</u>	<u>2014</u>	<u>2015</u>
	(in millions of Won)		
Current service costs	₩ 238,386	230,445	239,508
Net interest costs <sup>(*)</sup>	9,362	7,441	5,894
	<u>₩ 247,748</u>	<u>237,886</u>	<u>245,402</u>

(\*) The actual return on plan assets amounted to ₩36,195 million, ₩36,060 million and ₩32,630 million for the years ended December 31, 2013, 2014 and 2015, respectively.

The above expenses by function were as follows:

	<u>2013</u>	<u>2014</u>	<u>2015</u>
	(in millions of Won)		
Cost of sales	₩ 180,090	172,668	170,334
Selling and administrative expenses	66,327	64,960	74,210
Others	1,331	258	858
	<u>₩ 247,748</u>	<u>237,886</u>	<u>245,402</u>

6) Accumulated actuarial gains (losses), net of tax recognized in other comprehensive income for the years ended December 31, 2013, 2014 and 2015 were as follows:

	<u>2013</u>	<u>2014</u>	<u>2015</u>
	(in millions of Won)		
Beginning	₩ (245,229)	(239,005)	(314,106)
Current actuarial gains (losses)	6,224	(75,101)	41,954
Ending	<u>₩ (239,005)</u>	<u>(314,106)</u>	<u>(272,152)</u>

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7) The principal actuarial assumptions as of December 31, 2014 and 2015 are as follows:

	2014	2015
	(%)	
Discount rate .....	2.58~8.58	2.19~9.20
Expected future increase in salaries (*1) .....	1.00~10.22	1.05~10.00

(\*1) The expected future increase in salaries is based on the average salary increase rate for the past three years.

All assumptions are reviewed at the end of the reporting period. Additionally, the total estimated defined benefit obligation includes actuarial assumptions associated with the long-term characteristics of the defined benefit plan.

8) Reasonably possible changes at the reporting date to one of the relevant actuarial assumptions, holding other assumptions constant, would have affected the defined benefit obligation by the amounts shown below:

	1% Increase		1% Decrease	
	Amount	Percentage (%)	Amount	Percentage (%)
	(in millions of Won)			
Discount rate .....	₩ (133,175)	(7.8)	147,675	8.6
Expected future increases in salaries .....	146,285	8.5	(129,539)	(7.6)

9) As of December 31, 2015 the maturity of the expected benefit payments are as follows:

	Within 1 year	1 year- 5 years	5 years- 10 years	10 years- 20 years	After 20 years	Total
	(in millions of Won)					
Benefits paid .....	₩ 45,551	360,419	717,505	854,499	325,483	2,303,457

The maturity analysis of the defined benefit obligation was nominal amounts of defined benefit obligations using expected remaining working lives of employees.

**22. Other Liabilities**

Other liabilities as of December 31, 2014 and 2015 are as follows:

	2014	2015
	(in millions of Won)	
<b>Current</b>		
Due to customers for contract work .....	₩ 992,249	767,692
Advances received .....	1,310,894	1,047,385
Unearned revenue .....	21,627	11,684
Withholdings .....	167,002	153,562
Deferred revenue .....	—	—
Others .....	236,021	31,129
	<u>₩ 2,727,793</u>	<u>2,011,452</u>
<b>Non-current</b>		
Advances received .....	₩ 235,825	173,632
Unearned revenue .....	1,170	20,838
Others .....	45,987	56,935
	<u>₩ 282,982</u>	<u>251,405</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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**23. Financial Instruments**

(a) Classification of financial instruments

1) Financial assets as of December 31, 2014 and 2015 are as follows:

	2014	2015
	(in millions of Won)	
Financial assets at fair value through profit or loss		
Derivatives assets held for trading	₩ 96,266	188,489
Available-for-sale financial assets	2,420,241	2,209,744
Held-to-maturity financial assets	17,093	23,379
Loans and receivables	19,380,295	20,580,438
	<u>₩ 21,913,895</u>	<u>23,002,050</u>

2) Financial liabilities as of December 31, 2014 and 2015 are as follows:

	2014	2015
	(in millions of Won)	
Financial liabilities at fair value through profit or loss		
Derivatives liabilities held for trading	₩ 149,072	155,502
Financial liabilities measured at amortized cost		
Trade accounts and notes payable	4,039,255	3,136,446
Borrowings	27,428,257	25,220,231
Financial guarantee liabilities	53,660	101,311
Others	2,101,354	2,197,463
	<u>33,622,526</u>	<u>30,655,451</u>
	<u>₩ 33,771,598</u>	<u>30,810,953</u>

3) Finance income and costs by category of financial instrument for the years ended December 31, 2013, 2014 and 2015 were as follows:

① December 31, 2013

	Finance income and costs							Other comprehensive income
	Interest income (expense)	Gain and loss on valuation	Gain and loss on foreign currency	Gain and loss on disposal	Impairment loss	Others	Total	
	(in millions of Won)							
Financial assets at fair value through profit or loss	₩ 549	67,951	—	348,126	—	—	416,626	—
Available-for-sale financial assets	4,010	—	—	101,842	(280,237)	59,181	(115,204)	412,346
Held-to-maturity financial assets	480	—	—	—	—	84	564	—
Loans and receivables	255,359	—	(49,541)	(20,009)	—	(145)	185,664	—
Financial liabilities at fair value through profit or loss	—	(287,864)	—	(264,739)	—	—	(552,603)	—
Financial liabilities measured at amortized cost	(657,681)	—	285,922	—	—	(11,703)	(383,462)	—
	<u>₩ (397,283)</u>	<u>(219,913)</u>	<u>236,381</u>	<u>165,220</u>	<u>(280,237)</u>	<u>47,417</u>	<u>(448,415)</u>	<u>412,346</u>

**POSCO and Subsidiaries**  
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② December 31, 2014

	Finance income and costs							Other comprehensive loss
	Interest income (expense)	Gain and loss on valuation	Gain and loss on foreign currency	Gain and loss on disposal	Impairment loss	Others	Total	
	(in millions of Won)							
Financial assets at fair value through profit or loss	₩ —	72,466	—	256,941	—	—	329,407	—
Available-for-sale financial assets	309	—	—	181,774	(369,723)	47,825	(139,815)	(333,891)
Held-to-maturity financial assets	260	—	—	—	—	(244)	16	—
Loans and receivables	227,685	—	301,623	(20,912)	—	(255)	508,141	—
Financial liabilities at fair value through profit or loss	—	(98,003)	—	(282,638)	—	—	(380,641)	—
Financial liabilities measured at amortized cost	(795,585)	—	(288,513)	(38,594)	—	(19,641)	(1,142,333)	—
	₩ (567,331)	(25,537)	13,110	96,571	(369,723)	27,685	(825,225)	(333,891)

③ December 31, 2015

	Finance income and costs							Other comprehensive loss
	Interest income (expense)	Gain and loss on valuation	Gain and loss on foreign currency	Gain and loss on disposal	Impairment loss	Others	Total	
	(in millions of Won)							
Financial assets at fair value through profit or loss	₩ —	129,949	—	357,715	—	—	487,664	—
Available-for-sale financial assets	1,956	—	—	138,782	(142,781)	183,712	181,669	(187,854)
Held-to-maturity financial assets	456	—	—	—	—	(688)	(232)	—
Loans and receivables	207,781	—	283,030	(15,406)	—	(217)	475,188	—
Financial liabilities at fair value through profit or loss	—	(46,748)	—	(334,340)	—	—	(381,088)	—
Financial liabilities measured at amortized cost	(788,772)	—	(665,583)	—	—	(138,827)	(1,593,182)	—
	₩ (578,579)	83,201	(382,553)	146,751	(142,781)	43,980	(829,981)	(187,854)

(b) Credit risk

1) Credit risk exposure

The carrying amount of financial assets represents the Company's maximum exposure to credit risk. The maximum exposure to credit risk as of December 31, 2014 and 2015 are as follows:

	2014	2015
	(in millions of Won)	
Cash and cash equivalents	₩ 3,811,202	4,870,185
Financial assets at fair value through profit or loss	96,266	188,489
Available-for-sale financial assets	125,486	114,538
Held-to-maturity financial assets	17,093	23,379
Loans and other receivables	3,825,170	6,014,651
Trade accounts and notes receivable, net	11,664,587	9,575,264
Long-term trade accounts and notes receivable, net	79,336	120,338
	₩ 19,619,140	20,906,844

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The Company provided financial guarantees for the repayment of loans of associates, joint ventures and third parties. As of December 31, 2014 and 2015, the maximum exposure to credit risk related to the financial guarantees amounted to ₩4,780,700 million and ₩4,709,050 million, respectively.

2) Impairment losses on financial assets

① Allowance for doubtful accounts as of December 31, 2014 and 2015 are as follows:

	2014	2015
	(in millions of Won)	
Trade accounts and notes receivable .....	₩ 605,470	625,003
Other accounts receivable .....	94,579	146,031
Loans .....	234,107	220,966
Other assets .....	19,997	7,678
	₩ 954,153	999,678

② Impairment losses on financial assets for the years ended December 31, 2014 and 2015 were as follows:

	2014	2015
	(in millions of Won)	
Bad debt expenses on trade accounts and notes receivable .....	₩ 108,933	189,616
Other bad debt expenses <sup>(*)</sup> .....	96,373	158,071
Impairment loss on available-for-sale financial assets .....	369,723	142,781
Impairment loss on held-to-maturity financial assets .....	319	1,000
Less: Recovery of allowance for other bad debt accounts .....	—	(10,452)
Less: Recovery of impairment loss on held-to-maturity financial assets .....	(75)	(312)
	₩ 575,273	480,704

(\*) Other bad debt expenses are mainly related to other receivables and loans.

③ The aging and impairment losses of trade accounts and notes receivable as of December 31, 2014 and 2015 are as follows:

	2014		2015	
	Trade accounts and notes receivable	Impairment	Trade accounts and notes receivable	Impairment
	(in millions of Won)			
Not due .....	₩ 8,599,898	53,093	6,819,800	55,993
Over due less than 1 month .....	1,867,838	7,171	1,843,132	5,084
1 month – 3 months .....	273,981	3,323	367,663	1,781
3 months – 12 months .....	201,213	16,893	421,505	37,719
Over 12 months .....	1,406,463	524,990	868,505	524,426
	₩ 12,349,393	605,470	10,320,605	625,003

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④ The aging and impairment losses of other receivables as of December 31, 2014 and 2015 are as follows:

	2014		2015	
	Other receivables	Impairment	Other receivables	Impairment
	(in millions of Won)			
Not due .....	2,138,327	97,043	1,921,274	38,866
Over due less than 1 month .....	28,806	136	155,762	17,955
1 month – 3 months .....	97,165	19,571	10,285	302
3 months – 12 months .....	77,119	7,264	76,571	10,556
Over 12 months .....	447,217	224,669	395,200	306,996
	<u>2,788,634</u>	<u>348,683</u>	<u>2,559,092</u>	<u>374,675</u>

⑤ Changes in the allowance for doubtful accounts for the years ended December 31, 2013, 2014 and 2015 were as follows:

	2013	2014	2015
	(in millions of Won)		
Beginning .....	₩ 474,877	661,651	954,153
Bad debt expenses .....	90,119	108,933	189,616
Other bad debt expenses .....	111,065	96,373	147,619
Others .....	(14,410)	87,196	(291,710)
Ending .....	<u>₩ 661,651</u>	<u>954,153</u>	<u>999,678</u>

(c) Liquidity risk

1) Contractual maturities for non-derivative financial liabilities, including estimated interest, are as follows:

	Book value	Contractual cash flow	Within 1 year	1 year - 5 years	After 5 years
	(in millions of Won)				
Trade accounts and notes payable .....	₩ 3,136,446	3,136,446	3,125,348	11,098	—
Borrowings .....	25,220,231	28,220,022	13,038,808	9,799,089	5,382,125
Financial guarantee liabilities (*1) .....	101,311	4,709,050	4,709,050	—	—
Other financial liabilities .....	2,197,463	2,197,462	2,062,992	134,470	—
	<u>₩ 30,655,451</u>	<u>38,262,980</u>	<u>22,936,198</u>	<u>9,944,657</u>	<u>5,382,125</u>

(\*1) For issued financial guarantee contracts, the maximum amount of the guarantee is allocated to the earliest period in which the guarantee could be called.

2) The maturity analysis of derivative financial liabilities is as follows:

	Within 1 year	1 year - 5 years	Total
	(in millions of Won)		
Currency forward .....	₩ 50,383	3,642	54,025
Currency futures .....	9,051	—	9,051
Currency swaps .....	30,777	30,847	61,624
Interest swaps .....	1,236	3,172	4,408
Other forwards .....	26,394	—	26,394
	<u>₩ 117,841</u>	<u>37,661</u>	<u>155,502</u>

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(d) Currency risk

1) The Company has exposure to the risk that the fair value or future cash flows of a financial instrument will fluctuate because of the changes in foreign exchange rates. The exposure to currency risk as of December 31, 2014 and 2015 are as follows:

	2014		2015	
	Assets	Liabilities	Assets	Liabilities
	(in millions of Won)			
USD .....	₩ 4,771,164	8,328,804	5,535,915	7,196,614
EUR .....	387,102	683,685	433,686	657,734
JPY .....	185,891	1,145,643	64,495	1,036,545
Others .....	140,699	45,414	181,091	92,881

2) As of December 31, 2014 and 2015, provided that functional currency against foreign currencies other than functional currency hypothetically strengthens or weakens by 10%, the changes in gain or loss during the years ended December 31, 2014 and 2015 were as follows:

	2014		2015	
	10% increase	10% decrease	10% increase	10% decrease
	(in millions of Won)			
USD .....	₩ (355,764)	355,764	(166,070)	166,070
EUR .....	(29,658)	29,658	(22,405)	22,405
JPY .....	(95,975)	95,975	(97,205)	97,205

(e) Interest rate risk

1) The carrying amount of interest-bearing financial instruments as of December 31, 2014 and 2015 are as follows:

	2014		2015	
	(in millions of Won)			
Fixed rate				
Financial assets .....	₩ 6,250,418		9,686,358	
Financial liabilities .....	(17,258,183)		(13,391,233)	
		(11,007,765)		(3,704,875)
Variable rate				
Financial liabilities .....	₩ (10,170,074)		(11,828,998)	

2) Sensitivity analysis on the fair value of financial instruments with fixed interest rate

The Company does not account for any fixed rate financial assets and liabilities at fair value through profit or loss, and the Company does not designate derivatives (interest rate swaps) as hedging instruments under a fair value hedge accounting model. Therefore a change in interest rates at the reporting date would not affect profit or loss.

3) Sensitivity analysis on the fair value of financial instruments with variable interest rate

As of December 31, 2014 and 2015, provided that other factors remain the same and the interest rate of borrowings with floating rates increases or decreases by 1%, the changes in interest expense for the years ended December 31, 2014 and 2015 were as follows:

	2014		2015	
	1% increase	1% decrease	1% increase	1% decrease
	(in millions of Won)			
Variable rate financial instruments .....	₩ (101,701)	101,701	(118,290)	118,290

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(f) Fair value

1) Fair value and book value

The carrying amount and the fair value of financial instruments as of December 31, 2014 and 2015 are as follows:

	2014		2015	
	Book value	Fair value	Book value	Fair value
	(in millions of Won)			
Assets measured at fair value				
Available-for-sale financial assets <sup>(*)1</sup> .....	₩ 1,963,289	1,963,289	1,854,784	1,854,784
Derivatives assets held for trading <sup>(*)2</sup> .....	96,266	96,266	188,489	188,489
	<u>2,059,555</u>	<u>2,059,555</u>	<u>2,043,273</u>	<u>2,043,273</u>
Assets measured at amortized cost <sup>(*)3</sup>				
Cash and cash equivalents .....	3,811,202	3,811,202	4,870,185	4,870,185
Trade accounts and notes receivable, net .....	11,743,923	11,743,923	9,695,602	9,695,602
Loans and other receivables, net .....	3,825,170	3,825,170	6,014,651	6,014,651
Held-to-maturity financial assets .....	17,093	17,093	23,379	23,379
	<u>19,397,388</u>	<u>19,397,388</u>	<u>20,603,817</u>	<u>20,603,817</u>
Liabilities measured at fair value				
Derivatives liabilities held for trading <sup>(*)2</sup> .....	149,072	149,072	155,502	155,502
Liabilities measured at amortized cost <sup>(*)3</sup>				
Trade accounts and notes payable .....	4,039,255	4,039,255	3,136,446	3,136,446
Borrowings .....	27,428,257	27,756,615	25,220,231	25,413,577
Financial guarantee liabilities .....	53,660	53,660	101,311	101,311
Others .....	2,101,354	2,101,354	2,197,463	2,197,463
	<u>₩ 33,622,526</u>	<u>33,950,884</u>	<u>30,655,451</u>	<u>30,848,797</u>

(\*1) The fair value of available-for-sale financial assets publicly traded is measured at the closing bid price quoted at the end of the reporting period. Meanwhile, the fair value of unquoted available-for-sale financial assets is calculated using the valuation results from an external pricing service in which weighted average cost of capital of evaluated companies are used as discount rates. Available-for-sale financial assets which are not measured at fair value are not included.

(\*2) The fair value of derivatives is measured using valuation models such as Black-Scholes model, binominal lattice model and others in which the market yields on government bonds are used as discount rates.

(\*3) The fair value of financial assets and liabilities measured at amortized cost is determined at the present value of estimated future cash flows discounted at the current market interest rate. The fair value is calculated for the disclosures in the notes. On the other hand, the Company has not performed fair value measurement for the financial assets and liabilities measured at amortized cost except borrowings since their carrying amounts approximate fair value.

2) Interest rates used for determining fair value

Interest rates used to discount estimated cash flows as of December 31, 2014 and 2015 are as follows:

	2014	2015
Borrowings .....	0.22%~4.92%	0.64%~3.74%

**POSCO and Subsidiaries**  
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3) The fair value hierarchy

- ① The fair values of financial instruments by fair value hierarchy as of December 31, 2014 and 2015 are as follows:

a. December 31, 2014

	Level 1	Level 2	Level 3	Total
	(in millions of Won)			
Financial assets				
Available-for-sale financial assets .....	₩ 1,808,384	—	154,905	1,963,289
Derivatives assets held for trading .....	—	96,266	—	96,266
	<u>1,808,384</u>	<u>96,266</u>	<u>154,905</u>	<u>2,059,555</u>
Financial liabilities				
Derivatives liabilities held for trading .....	₩ —	149,072	—	149,072

b. December 31, 2015

	Level 1	Level 2	Level 3	Total
	(in millions of Won)			
Financial assets				
Available-for-sale financial assets .....	₩ 1,458,551	—	396,233	1,854,784
Derivatives assets held for trading .....	—	110,197	78,292	188,489
	<u>1,458,551</u>	<u>110,197</u>	<u>474,525</u>	<u>2,043,273</u>
Financial liabilities				
Derivatives liabilities held for trading .....	₩ —	147,384	8,118	155,502

- ② Changes in fair value of financial instruments classified as Level 3 for the years ended December 31, 2014 and 2015 were as follows:

	2014	2015
	(in millions of Won)	
Beginning .....	₩ 744,031	154,905
Valuation .....	(60,445)	7,753
Acquisition and others <sup>(*)</sup> .....	65,232	381,960
Disposal and others <sup>(*1,2)</sup> .....	(593,913)	(78,211)
Ending .....	<u>₩ 154,905</u>	<u>466,407</u>

(\*1) Included transferred amount due to change in fair value hierarchy.

(\*2) Included ₩580,062 million transferred to assets held for sale for the year ended December 31, 2014.

**POSCO and Subsidiaries**  
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(g) Offsetting financial assets and financial liabilities

As of December 31, 2014 and 2015, financial assets and financial liabilities subject to offsetting, enforceable master netting arrangements and similar agreements are as follows:

1) December 31, 2014

	Gross amounts of recognized financial instruments	Gross amounts of recognized financial instruments set off in the statement of financial position	Net amounts of financial instruments presented in the statement of financial position	Related amounts not set off in the statement of financial position		Net amount
				Financial instruments	Cash collateral received or pledged	
(in millions of Won)						
Financial assets						
Trade accounts and notes receivable . . . . .	₩ 2,030,342	—	2,030,342	(2,030,342)	—	—
Derivatives . . . . .	79,286	—	79,286	(56,714)	—	22,572
	<u>2,109,628</u>	<u>—</u>	<u>2,109,628</u>	<u>(2,087,056)</u>	<u>—</u>	<u>22,572</u>
Financial liabilities						
Short-term borrowings . . . .	2,030,342	—	2,030,342	(2,030,342)	—	—
Derivatives . . . . .	128,980	—	128,980	(56,714)	(6,912)	65,354
	<u>₩ 2,159,322</u>	<u>—</u>	<u>2,159,322</u>	<u>(2,087,056)</u>	<u>(6,912)</u>	<u>65,354</u>

2) December 31, 2015

	Gross amounts of recognized financial instruments	Gross amounts of recognized financial instruments set off in the statement of financial position	Net amounts of financial instruments presented in the statement of financial position	Related amounts not set off in the statement of financial position		Net amount
				Financial instruments	Cash collateral received or pledged	
(in millions of Won)						
Financial assets						
Trade accounts and notes receivable . . . . .	₩ 846,676	—	846,676	(846,676)	—	—
Derivatives <sup>(*)</sup> . . . . .	73,471	—	73,471	(68,783)	—	4,688
	<u>920,147</u>	<u>—</u>	<u>920,147</u>	<u>(915,459)</u>	<u>—</u>	<u>4,688</u>
Financial liabilities						
Short-term borrowings . . . .	846,676	—	846,676	(846,676)	—	—
Derivatives <sup>(*)</sup> . . . . .	122,274	—	122,274	(68,783)	(1,349)	52,142
	<u>₩ 968,950</u>	<u>—</u>	<u>968,950</u>	<u>(915,459)</u>	<u>(1,349)</u>	<u>52,142</u>

(\*) Some of the derivative contracts are made under International Swaps and Derivatives Association (ISDA) master netting agreements. In general, under such agreements the amounts owed by each counter party on a single day in respect of all transactions outstanding in the same currency are aggregated into a single net amount that is payable by one party to the other. In certain circumstances (i.e. when a default occurs), all standing transactions under the agreement are terminated, the termination value is assessed and only a single amount is payable in settlement of all transactions.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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**24. Share Capital and Capital Surplus**

(a) Share capital as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	<u>(Share, in Won)</u>	
Authorized shares .....	200,000,000	200,000,000
Par value .....	₩ 5,000	5,000
Issued shares <sup>(*)</sup> .....	87,186,835	87,186,835
Shared capital <sup>(*)</sup> .....	₩ 482,403,125,000	482,403,125,000

(\*1) As of December 31, 2015, total shares of ADRs of 49,982,260 are equivalent to 12,495,565 of common stock.

(\*2) As of December 31, 2015, the difference between the ending balance of common stock and the par value of issued common stock is ₩46,469 million due to retirement of 9,293,790 treasury stocks.

(b) The changes in issued common stock for the years ended December 31, 2014 and 2015 were as follows:

	<u>2014</u>			<u>2015</u>		
	<u>Issued shares</u>	<u>Treasury shares</u>	<u>Number of outstanding shares</u>	<u>Issued shares</u>	<u>Treasury shares</u>	<u>Number of outstanding shares</u>
	<u>(share)</u>					
Beginning .....	87,186,835	(7,403,211)	79,783,624	87,186,835	(7,193,807)	79,993,028
Disposal of treasury shares .....	—	209,404	209,404	—	2,620	2,620
Ending .....	87,186,835	(7,193,807)	79,993,028	87,186,835	(7,191,187)	79,995,648

(c) Capital surplus as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	<u>(in millions of Won)</u>	
Share premium .....	₩ 463,825	463,825
Gain on disposal of treasury shares .....	783,791	783,756
Other capital deficit .....	(163,898)	145,498
	<u>₩ 1,083,718</u>	<u>1,393,079</u>

**25. Hybrid Bonds**

(a) Hybrid bonds classified as equity as of December 31, 2014 and 2015 are as follows:

	<u>Date of issue</u>	<u>Date of maturity</u>	<u>Interest rate (%)</u>	<u>2014</u>	<u>2015</u>
	<u>(in millions of Won)</u>				
Hybrid bond 1-1 <sup>(*)</sup> .....	2013-06-13	2043-06-13	4.30	₩ 800,000	800,000
Hybrid bond 1-2 <sup>(*)</sup> .....	2013-06-13	2043-06-13	4.60	200,000	200,000
Issuance cost .....				(3,081)	(3,081)
				<u>₩ 996,919</u>	<u>996,919</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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(\*1) Details of hybrid bonds as of December 31, 2015 are as follows:

	Hybrid bond 1-1	Hybrid bond 1-2
	(in millions of Won)	
Issue price	800,000	200,000
Maturity date	30 years (The Company has a right to extend the maturity date)	30 years (The Company has a right to extend the maturity date)
Interest rate	Issue date ~ 2018-06-12 : 4.3% reset every 5 years as follows; · After 5 years : return on government bond (5 years) + 1.3% · After 10 years : additionally +0.25% according to Step-up clauses · After 25 years : additionally +0.75%	Issue date ~ 2023-06-12 : 4.6% reset every 10 years as follows; · After 10 years : return on government bond (10 years) + 1.4% · After 10 years : additionally +0.25% according to Step-up clauses · After 30 years : additionally +0.75%
Interest payments condition	Quarterly (Optional deferral of interest payment is available to the Company)	Quarterly (Optional deferral of interest payment is available to the Company)
Others	The Company can call the hybrid bond at year 5 and interest payment date afterwards	The Company can call the hybrid bond at year 10 and interest payment date afterwards

The interest accumulated but not paid on the hybrid bonds as of December 31, 2015 amounts to ₩2,276 million.

(b) POSCO ENERGY Co., Ltd., a subsidiary of the Company, issued hybrid bonds, which are classified as non-controlling interests in the consolidated financial statements. Hybrid bonds as of December 31, 2014 and 2015 are as follows:

	Date of issue	Date of maturity	Interest rate (%)	2014	2015
	(in millions of Won)				
Hybrid bond 1-1 (*1) .....	2013-08-29	2043-08-29	4.66	₩ 165,000	165,000
Hybrid bond 1-2 (*1) .....	2013-08-29	2043-08-29	4.72	165,000	165,000
Hybrid bond 1-3 (*1) .....	2013-08-29	2043-08-29	4.72	30,000	30,000
Hybrid bond 1-4 (*1) .....	2013-08-29	2043-08-29	5.21	140,000	140,000
Issuance cost .....				(1,532)	(1,532)
				<u>₩ 498,468</u>	<u>498,468</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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(\*1) Details of hybrid bonds of POSCO ENERGY Co., Ltd. as of December 31, 2015 are as follows:

	<u>Hybrid bond 1-1</u>	<u>Hybrid bond 1-2 and 1-3</u> (in millions of Won)	<u>Hybrid bond 1-4</u>
Issue price	165,000	195,000	140,000
Maturity date	30 years (The Company has a right to extend the maturity date)	30 years (The Company has a right to extend the maturity date)	30 years (The Company has a right to extend the maturity date)
Interest rate	Issue date ~ 2018-08-29 : 4.66% reset every 5 years as follows; · After 5 years : return on government bond (5 years) + 1.39% · After 10 years : additionally +0.25% according to Step-up clauses · After 30 years : additionally +0.75%	Issue date ~ 2018-08-29 : 4.72% reset every 5 years as follows; · After 5 years : return on government bond (5 years) + 1.45% · After 10 years : additionally +0.25% according to Step-up clauses · After 30 years : additionally +0.75%	Issue date ~ 2018-08-29 : 5.21% reset every 5 years as follows; · After 5 years : return on government bond (5 years) + 1.55% · After 10 years : additionally +0.25% according to Step-up clauses · After 30 years : additionally +0.75%
Interest payments condition	Quarterly (Optional deferral of interest payment is available to the Company)	Quarterly (Optional deferral of interest payment is available to the Company)	Quarterly (Optional deferral of interest payment is available to the Company)
Others	The Company can call the hybrid bond at year 5 and interest payment date afterwards	The Company can call the hybrid bond at year 5 and interest payment date afterwards	The Company can call the hybrid bond at year 5 and interest payment date afterwards

The interest accumulated but not paid on the hybrid bonds as of December 31, 2015 amounts to ₩2,125 million.

**26. Reserves**

(a) Reserves as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	<u>(in millions of Won)</u>	
Accumulated comprehensive loss of investments in associates and joint ventures .....	₩(344,942)	(426,360)
Changes in the unrealized fair value of available-for-sale investments .....	144,783	(38,294)
Currency translation differences .....	(187,740)	(109,646)
Others .....	(20,874)	(20,456)
	<u>₩(408,773)</u>	<u>(594,756)</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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(b) Changes in fair value of available-for-sale investments for the years ended December 31, 2014 and 2015 were as follows:

	2014	2015
	(in millions of Won)	
Beginning balance	₩ 480,409	144,783
Changes in the unrealized fair value of available-for-sale investments	(411,671)	(236,752)
Reclassification to profit of loss upon disposal	(176,124)	(45,817)
Impairment of available-for-sale investments	267,920	94,487
Others	(15,751)	5,005
Ending balance	<u>₩ 144,783</u>	<u>(38,294)</u>

**27. Treasury Shares**

Based on the Board of Directors' resolution, the Company holds treasury shares for business purposes including price stabilization. The changes in treasury shares for the years ended December 31, 2014 and 2015 were as follows:

	2014		2015	
	Number of shares	Amount	Number of shares	Amount
	(shares, in millions of Won)			
Beginning	7,403,211	₩1,579,124	7,193,807	₩1,534,457
Disposal of treasury shares	(209,404)	(44,667)	(2,620)	(559)
Ending	<u>7,193,807</u>	<u>₩1,534,457</u>	<u>7,191,187</u>	<u>₩1,533,898</u>

**28. Revenue**

Details of revenue for the years ended December 31, 2013, 2014 and 2015 were as follows:

	2013	2014	2015
	(in millions of Won)		
Sales of goods	₩ 50,921,090	53,636,957	47,018,466
Service sales	3,614,227	2,962,404	2,489,447
Construction sales	6,787,100	7,797,953	8,546,454
Rental income	24,735	18,876	11,757
Others	418,591	342,435	456,144
	<u>₩ 61,765,743</u>	<u>64,758,625</u>	<u>58,522,268</u>

**29. Construction Contracts**

(a) Construction contracts in progress as of December 31, 2014 and 2015 were as follows:

	2014	2015
	(in million of Won)	
Aggregate amount of costs incurred	₩ 10,972,880	18,089,275
Add: Recognized profits	617,771	1,194,797
Less: Recognized losses	(449,227)	(432,674)
Cumulative construction revenue	11,141,424	18,851,398
Less: Progress billing	(10,665,962)	(18,374,500)
Others	(61,033)	(45,093)
	<u>₩ 414,429</u>	<u>431,805</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

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(b) Unbilled amount due from customers and due to customers for contract work as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	<u>(in million of Won)</u>	
Unbilled due from customers for contract work .....	₩1,406,678	1,199,497
Due to customers for contract work .....	<u>(992,249)</u>	<u>(767,692)</u>
	<u>₩ 414,429</u>	<u>431,805</u>

(c) When the outcome of a construction contract can be estimated reliably, contract revenue is recognized in profit or loss in proportion to the stage of completion of the contract. The Company estimates the stage of completion of the contract based on the proportion that contract costs incurred for work performed to date bear to the estimated total contract costs.

The estimated total contract costs are based on the nature and characteristics of an individual contract, historical costs of similar projects, and current circumstances. Only those contract costs that reflect work performed are included in costs incurred to date.

The following are the key assumptions for the estimated contract cost.

<b>Key assumptions for the estimation</b>	
Material	Estimations based on recent purchasing contracts, market price and quoted price
Labor cost	Estimations based on standard monthly and daily labor cost
Outsourcing cost	Estimations based on the historical costs of similar projects, market price and quoted price

Management continually reviews all estimates involved in such construction contracts and adjusts them as necessary.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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**30. Selling and Administrative Expenses**

(a) Administrative expenses

Administrative expenses for years ended December 31, 2013, 2014 and 2015 were as follows:

	2013	2014	2015
	(in millions of Won)		
Wages and salaries	₩ 754,819	781,433	810,851
Expenses related to post-employment benefits	67,482	66,744	87,293
Other employee benefits	165,751	174,131	193,967
Travel	53,003	50,257	48,426
Depreciation	95,197	110,908	105,470
Amortization	133,299	162,312	168,525
Communication	14,601	9,579	12,502
Electricity expenses	13,389	11,746	9,573
Taxes and public dues	55,177	55,647	74,315
Rental	110,191	137,366	119,836
Repairs	5,708	13,924	11,677
Entertainment	17,295	17,633	15,740
Advertising	105,663	104,485	90,698
Research & development	192,805	175,195	135,508
Service fees	240,034	215,974	218,751
Supplies	15,031	10,856	9,855
Vehicles maintenance	12,109	12,685	10,756
Industry association fee	11,924	11,856	12,603
Conference	17,004	17,620	16,053
Contribution to provisions	19,075	16,056	14,900
Bad debt expenses	90,119	108,933	189,616
Others	42,129	44,416	38,333
	<u>₩ 2,231,805</u>	<u>2,309,756</u>	<u>2,395,248</u>

(b) Selling expenses

Selling expenses for the years ended December 31, 2013, 2014 and 2015 were as follows:

	2013	2014	2015
	(in millions of Won)		
Freight and custody expenses	₩ 1,432,935	1,551,705	1,531,906
Operating expenses for distribution center	9,838	10,782	11,021
Sales commissions	73,922	66,359	80,165
Sales advertising	3,228	4,615	3,220
Sales promotion	27,129	25,777	22,443
Sample	4,751	3,477	2,576
Sales insurance premium	27,031	39,538	30,682
Contract cost	37,323	49,891	38,425
Others	15,963	7,974	8,518
	<u>₩ 1,632,120</u>	<u>1,760,118</u>	<u>1,728,956</u>

**POSCO and Subsidiaries**  
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**31. Research and Development Expenditures Recognized as Expenses**

Research and development expenditures recognized as expenses for the years ended December 31, 2013, 2014 and 2015 were as follows:

	2013	2014	2015
	(in millions of Won)		
Selling and administrative expenses .....	₩ 192,805	175,195	135,508
Cost of sales .....	369,842	353,149	356,173
	<u>₩ 562,647</u>	<u>528,344</u>	<u>491,681</u>

**32. Other Operating Income and Expenses**

Details of other operating income and expenses for the years ended December 31, 2013, 2014 and 2015 were as follows:

	2013	2014	2015
	(in millions of Won)		
<b>Other operating income</b>			
Gain on disposals of assets held for sale .....	₩ 101,611	48,232	227,956
Gain on disposals of investment in subsidiaries, associates and joint ventures .....	7,668	41,258	88,718
Gain on disposals of property, plant and equipment .....	14,177	15,039	22,730
Recovery of allowance for other doubtful accounts .....	—	—	10,452
Rental revenues .....	1,588	1,743	1,019
Gain on insurance proceeds .....	1,000	2,924	14,976
Others .....	103,029	160,210	183,197
	<u>₩ 229,073</u>	<u>269,406</u>	<u>549,048</u>
<b>Other operating expenses</b>			
Impairment loss on assets held for sale .....	₩ (1,814)	(17,205)	(133,547)
Loss on disposals of assets held for sale .....	(26,498)	(14)	(190,357)
Loss on disposals of investment in subsidiaries, associates and joint ventures .....	(19,404)	(2,556)	(18,996)
Loss on disposals of property, plant and equipment .....	(121,133)	(50,006)	(101,732)
Impairment loss on property, plant and equipment .....	(9,742)	(64,833)	(136,269)
Impairment loss on intangible assets .....	(125,316)	(55,220)	(161,412)
Other bad debt expenses .....	(111,065)	(96,373)	(158,071)
Idle tangible asset expenses .....	(17,624)	(12,214)	(12,773)
Impairment loss on other non-current assets .....	(9,000)	(38,137)	(12,264)
Contribution to provisions .....	(65,896)	(126,601)	(18,396)
Donations .....	(60,940)	(69,544)	(62,957)
Others <sup>(*1,2)</sup> .....	(82,374)	(446,971)	(435,524)
	<u>₩ (650,806)</u>	<u>(979,674)</u>	<u>(1,442,298)</u>

(\*1) As a result of Korea National Tax Service's periodic audit of tax payments and refunds of the Company, the Company recognized additional tax payments amounting to ₩271,646 million, primarily related to VAT, as other operating expense during the year ended December 31, 2014.

(\*2) The Company paid ₩299,037 million in connection with its settlement with Nippon Steel & Sumitomo Metal Corporation for a civil lawsuit regarding improperly acquired trade secrets and patents during the year ended December 31, 2015 (Note 38).

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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**33. Finance Income and Costs**

Details of finance income and costs for the years ended December 31, 2013, 2014 and 2015 were as follows:

	2013	2014	2015
	(in millions of Won)		
<b>Finance income</b>			
Interest income	₩ 260,398	228,254	210,193
Dividend income	59,181	47,825	183,712
Gain on foreign currency transactions	997,591	1,022,253	1,025,240
Gain on foreign currency translations	511,143	453,471	466,090
Gain on derivatives transactions	370,343	327,738	366,482
Gain on valuations of derivatives	72,297	73,279	155,334
Gain on disposals of available-for-sale financial assets	105,563	236,484	139,136
Others	4,322	7,458	10,886
	<u>₩ 2,380,838</u>	<u>2,396,762</u>	<u>2,557,073</u>
<b>Finance costs</b>			
Interest expenses	₩ (657,681)	(795,585)	(788,772)
Loss on foreign currency transactions	(927,453)	(1,033,723)	(1,157,161)
Loss on foreign currency translations	(344,900)	(428,891)	(716,722)
Loss on derivatives transactions	(286,574)	(353,435)	(343,118)
Loss on valuation of derivatives	(291,465)	(101,330)	(72,133)
Impairment loss on available-for-sale financial assets	(280,237)	(369,723)	(142,781)
Others	(40,943)	(139,300)	(166,367)
	<u>₩ (2,829,253)</u>	<u>(3,221,987)</u>	<u>(3,387,054)</u>

**34. Expenses by Nature**

Expenses that are recorded by nature as cost of sales, selling, general and administrative expenses and other operating expenses in the statements of comprehensive income for the years ended December 31, 2013, 2014 and 2015 were as follows (excluding finance costs and income tax expense):

	2013	2014	2015
	(in millions of Won)		
Changes in inventories including raw materials and consumables used	₩ 12,072,361	9,090,004	9,718,528
Cost of merchandises sold	25,909,164	30,899,849	24,220,580
Employee benefits expenses <sup>(*)2</sup>	3,174,316	3,197,902	3,472,295
Outsourced processing cost	9,462,946	9,294,977	8,681,271
Electricity expenses	1,109,765	1,370,390	1,251,546
Depreciation expenses <sup>(*)1</sup>	2,505,536	2,894,609	2,836,663
Amortization expenses	180,014	343,940	381,583
Freight and custody expenses	1,432,935	1,551,705	1,531,906
Sales commissions	73,922	66,359	80,165
Loss on disposal of property, plant and equipment	121,133	50,006	101,732
Donations	60,940	69,544	62,957
Other expenses	3,325,515	3,685,748	5,245,710
	<u>₩ 59,428,547</u>	<u>62,515,033</u>	<u>57,584,936</u>

(\*)1 Includes depreciation expense of investment property.

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(\*2) The details of employee benefits expenses for the years ended December 31, 2013, 2014 and 2015 were as follows:

	2013	2014	2015
	(in millions of Won)		
Wages and salaries .....	₩ 2,907,442	2,931,553	3,186,237
Expenses related to post-employment benefits .....	266,874	266,349	286,058
	<u>₩ 3,174,316</u>	<u>3,197,902</u>	<u>3,472,295</u>

**35. Income Taxes**

(a) Income tax expense for the years ended December 31, 2013, 2014 and 2015 was as follows:

	2013	2014	2015
	(in millions of Won)		
Current income taxes .....	₩ 615,771	790,055	553,041
Deferred income tax due to temporary differences .....	106,066	(79,719)	(253,860)
Items recorded directly in equity .....	(132,808)	113,505	(32,621)
Income tax expense .....	<u>₩ 589,029</u>	<u>823,841</u>	<u>266,560</u>

(b) The following table reconciles the calculated income tax expense based on POSCO's statutory rates (24.2%) to the actual amount of taxes recorded by the Company for the years ended December 31, 2013, 2014 and 2015.

	2013	2014	2015
	(in millions of Won)		
Profit before income tax expense .....	₩ 1,938,045	1,387,880	150,345
Income tax expense computed at statutory rate .....	469,007	335,405	35,921
Adjustments:			
Tax credits .....	(169,166)	(49,615)	(152,139)
Under (over) provision from prior years .....	(1,178)	(463)	(47,053)
Investment in subsidiaries, associates and joint ventures .....	251,014	371,876	439,575
Tax effects due to permanent differences .....	7,703	69,998	(26,045)
Adjustments on prior year tax from tax audit .....	—	56,257	—
Tax effects due to amendments to local income tax law .....	—	39,890	—
Others .....	31,649	493	16,301
	<u>120,022</u>	<u>488,436</u>	<u>230,639</u>
Income tax expense .....	<u>₩ 589,029</u>	<u>823,841</u>	<u>266,560</u>
Effective tax rate (%) .....	30.39%	59.36%	177.30%

(c) The income taxes credited (charged) directly to equity during the years ended December 31, 2014 and 2015 were as follows:

	2014	2015
	(in millions of Won)	
Net changes in the unrealized fair value of available-for-sale investment .....	₩ 105,639	60,077
Loss (gain) on sale of treasury stock .....	(4,654)	12
Other capital surplus .....	—	(86,765)
Others .....	12,520	(5,945)
	<u>₩ 113,505</u>	<u>(32,621)</u>

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(d) The movements in deferred tax assets (liabilities) for the years ended December 31, 2014 and 2015 were as follows:

	2014			2015		
	Beginning	Inc. (Dec.)	Ending	Beginning	Inc. (Dec.)	Ending
	(in millions of Won)					
<b>Deferred income tax due to temporary differences</b>						
Allowance for doubtful accounts	149,603	46,132	195,735	195,735	6,857	202,592
Reserve for technology developments	(380,665)	121,632	(259,033)	(259,033)	81,357	(177,676)
PPE — Depreciation	(33,342)	26,667	(6,675)	(6,675)	(8,565)	(15,240)
Share of profit or loss of equity-accounted investees	(89,305)	(7,388)	(96,693)	(96,693)	51,519	(45,174)
Reserve for inventory valuation	(1,522)	3,513	1,991	1,991	11,382	13,373
PPE — Revaluation	(1,011,593)	(211,006)	(1,222,599)	(1,222,599)	(170,902)	(1,393,501)
Prepaid expenses	28,385	(10,924)	17,461	17,461	1,719	19,180
PPE — Impairment loss	25,518	(3,556)	21,962	21,962	(13,907)	8,055
Loss on foreign currency translation	(189,202)	120,090	(69,112)	(69,112)	39,757	(29,355)
Defined benefit obligations	100,356	20,328	120,684	120,684	(11,546)	109,138
Plan assets	(58,666)	5,631	(53,035)	(53,035)	10,233	(42,802)
Provision for construction losses	4,273	680	4,953	4,953	(4,341)	612
Provision for construction warranty	16,674	3,697	20,371	20,371	1,233	21,604
Accrued income	(2,915)	(776)	(3,691)	(3,691)	(5,291)	(8,982)
Impairment loss on AFS	133,089	38,912	172,001	172,001	94,473	266,474
Difference in acquisition costs of treasury shares	64,213	(2,074)	62,139	62,139	(23)	62,116
Others	267,024	(132,919)	131,748	92,155	196,691	296,206
	<u>(978,075)</u>	<u>18,639</u>	<u>(961,793)</u>	<u>(1,001,386)</u>	<u>280,646</u>	<u>(713,380)</u>
<b>Deferred income taxes recognized directly to equity</b>						
Loss (gain) on valuation of available-for-sale investments	(115,673)	105,639	(10,034)	(10,034)	60,077	50,043
Others	54,716	12,520	67,236	67,236	(5,945)	61,291
	<u>(60,957)</u>	<u>118,159</u>	<u>57,202</u>	<u>57,202</u>	<u>54,132</u>	<u>111,334</u>
<b>Deferred tax from tax credit</b>						
Tax credit carryforward and others	437,642	(137,276)	300,366	339,959	(62,698)	277,261
<b>Investments in subsidiaries, associates and joint ventures</b>						
Investments in subsidiaries, associates and joint ventures	42,761	(64,388)	(21,627)	(21,627)	3,539	(18,088)
	<u>₩ (558,629)</u>	<u>(64,866)</u>	<u>(625,852)</u>	<u>(625,852)</u>	<u>275,619</u>	<u>(342,873)</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(e) Deferred tax assets and liabilities as of December 31, 2014 and 2015 are as follows:

	2014			2015		
	Assets	Liabilities	Net	Assets	Liabilities	Net
	(in millions of Won)					
<b>Deferred income tax due to temporary differences</b>						
Allowance for doubtful accounts	197,159	(1,424)	195,735	202,592	—	202,592
Reserve for technology developments	—	(259,033)	(259,033)	—	(177,676)	(177,676)
PPE — Depreciation	39,412	(46,087)	(6,675)	34,575	(49,815)	(15,240)
Share of profit or loss of equity-accounted investees	—	(96,693)	(96,693)	52,521	(97,695)	(45,174)
Reserve for inventory valuation	7,294	(5,303)	1,991	13,373	—	13,373
PPE — Revaluation	—	(1,222,599)	(1,222,599)	—	(1,393,501)	(1,393,501)
Prepaid expenses	17,461	—	17,461	19,180	—	19,180
PPE — Impairment loss	23,489	(1,527)	21,962	8,159	(104)	8,055
Loss on foreign currency translation	83,521	(152,633)	(69,112)	107,076	(136,431)	(29,355)
Defined benefit obligations	125,758	(5,074)	120,684	129,804	(20,666)	109,138
Plan assets	—	(53,035)	(53,035)	—	(42,802)	(42,802)
Provision for construction losses	4,953	—	4,953	612	—	612
Provision for construction warranty	20,371	—	20,371	21,604	—	21,604
Accrued income	—	(3,691)	(3,691)	—	(8,982)	(8,982)
Impairment loss on AFS	172,001	—	172,001	266,474	—	266,474
Difference in acquisition costs of treasury shares	62,139	—	62,139	62,116	—	62,116
Others	283,655	(151,907)	131,748	369,763	(73,557)	296,206
	<u>1,037,213</u>	<u>(1,999,006)</u>	<u>(961,793)</u>	<u>1,287,849</u>	<u>(2,001,229)</u>	<u>(713,380)</u>
<b>Deferred income taxes recognized directly to equity</b>						
Loss (gain) on valuation of available-for-sale investments	238,489	(248,523)	(10,034)	218,161	(168,118)	50,043
Others	91,636	(24,400)	67,236	76,086	(14,795)	61,291
	<u>330,125</u>	<u>(272,923)</u>	<u>57,202</u>	<u>294,247</u>	<u>(182,913)</u>	<u>111,334</u>
<b>Deferred tax from tax credit</b>						
Tax credit carryforward and others	339,959	(39,593)	300,366	277,261	—	277,261
<b>Investments in subsidiaries, associates and joint ventures</b>						
Investments in subsidiaries, associates and joint ventures	601,265	(622,892)	(21,627)	518,326	(536,414)	(18,088)
	<u>₩2,308,562</u>	<u>(2,934,414)</u>	<u>(625,852)</u>	<u>2,377,683</u>	<u>(2,720,556)</u>	<u>(342,873)</u>

(f) As of December 31, 2015, the Company did not recognize income tax effects associated with deductible temporary differences of ₩5,029,818 million (deferred tax assets ₩1,217,216 million) mainly relating to loss of subsidiaries and affiliates because realization is not considered probable. As of December 31, 2015, the Company did not recognize income tax effects associated with taxable temporary differences of ₩3,587,123 million (deferred tax liabilities ₩868,084 million) mainly relating to increase in retained earnings of subsidiaries since it is probable that the temporary difference will not reverse in the foreseeable future.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

**36. Earnings per Share**

(a) Basic and diluted earnings per share for the years ended December 31, 2013, 2014 and 2015 were as follows:

	<u>2013</u>	<u>2014</u>	<u>2015</u>
	<b>(Won, except per share information)</b>		
Profit attribute to controlling interest . . . . .	₩ 1,370,877,921,262	632,706,233,938	171,493,811,117
Interests of hybrid bonds . . . . .	(18,313,914,551)	(33,048,799,997)	(33,029,632,499)
Weighted-average number of common shares outstanding <sup>(*)</sup> . . . . .	78,009,654	79,801,539	79,993,834
Basic and diluted earnings per share . . . . .	<u>₩ 17,338</u>	<u>7,514</u>	<u>1,731</u>

(\*1) The weighted-average number of common shares used to calculate basic and diluted earnings per share are as follows:

	<u>2013</u>	<u>2014</u>	<u>2015</u>
	<b>(shares)</b>		
Total number of common shares issued . . . . .	87,186,835	87,186,835	87,186,835
Weighted-average number of treasury shares . . . . .	(9,177,181)	(7,385,296)	(7,193,001)
Weighted-average number of common shares outstanding . . . . .	<u>78,009,654</u>	<u>79,801,539</u>	<u>79,993,834</u>

Since there were no potential shares of common stock which had dilutive effects as of December 31, 2013, 2014 and 2015, diluted earnings per share is equal to basic earnings per share.

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements, Continued

### As of December 31, 2013, 2014 and 2015

#### 37. Related Party Transactions

(a) Significant transactions between the controlling company and related parties for the years ended December 31, 2013, 2014 and 2015 were as follows:

##### 1) For the year ended December 31, 2013

	Sales and others		Purchase and others			
	Sales	Others	Purchase of material	Purchase of fixed assets	Outsourced processing cost	Others
	(in millions of Won)					
<b>Subsidiaries</b>						
POSCO ENGINEERING & CONSTRUCTION, LTD.	₩ 16,439	3,421	3,042	2,235,798	5,855	9,242
POSCO Processing & Service	987,424	8	1,215,510	—	—	805
POSCO COATED & COLOR STEEL Co., Ltd.	472,353	25	—	—	10,648	98
POSCO PLANTEC Co., Ltd. (*1)	2,324	19	1,499	67,081	13,733	2,492
POSCO ICT	1,210	195	679	279,660	31,231	157,126
eNtoB Corporation	—	10	234,352	13,241	149	20,079
POSCO CHEMTECH	512,139	25,868	491,562	21,832	287,584	1,223
POSCO ENERGY CO., LTD.	104,209	915	—	5,178	—	7
POSCO TMC Co., Ltd.	188,915	15	—	—	1,051	1,298
POSCO AST	500,193	10	6,985	—	56,520	2,029
POSHIMETAL Co., Ltd.	18,922	137	166,042	—	—	5
Daewoo International Corporation	3,522,678	65	16,297	—	—	2,843
POSCO America Corporation	596,681	1	—	—	—	339
POSCO Canada Ltd.	—	—	144,329	—	—	—
POSCO Asia Co., Ltd.	2,068,965	221	64,434	182	—	1,673
Qingdao Pohang Stainless Steel Co., Ltd.	58,502	—	—	—	—	14
POSCO JAPAN Co., Ltd.	1,270,325	—	19,978	2	—	2,972
POSCO MEXICO S.A. DE C.V.	256,014	693	—	—	—	621
POSCO Maharashtra Steel Private Limited	176,425	3,157	—	—	—	236
Others	876,522	7,812	360,220	42,220	255,500	110,221
	<u>11,630,240</u>	<u>42,572</u>	<u>2,724,929</u>	<u>2,665,194</u>	<u>662,271</u>	<u>313,323</u>
<b>Associates and joint ventures</b>						
POSCO PLANTEC Co., Ltd. (formerly, Sungjin Geotec Co., Ltd.) (*1)	15,028	48	1,735	65,802	9,781	6,883
SNNC	1,532	458	402,639	—	—	—
POSCHROME (PROPRIETARY) LIMITED	—	—	66,762	—	—	—
POSCO-SAMSUNG-Slovakia Processing Center	19,906	—	—	—	—	—
Others	17,299	165	3,937	—	—	176
	<u>53,765</u>	<u>671</u>	<u>475,073</u>	<u>65,802</u>	<u>9,781</u>	<u>7,059</u>
	<u>₩11,684,005</u>	<u>43,243</u>	<u>3,200,002</u>	<u>2,730,996</u>	<u>672,052</u>	<u>320,382</u>

(\*1) Sungjin Geotec Co., Ltd. merged with POSCO Plant Engineering Co., Ltd. and changed its name to POSCO PLANTEC Co., Ltd. in 2013.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

2) For the year ended December 31, 2014

	Sales and others		Purchase and others			
	Sales	Others	Purchase of material	Purchase of fixed assets	Outsourced processing cost	Others
	(in millions of Won)					
<b>Subsidiaries</b>						
POSCO ENGINEERING & CONSTRUCTION., LTD. ....	₩ 22,659	16,789	544,202	247,286	3,689	30,852
POSCO Processing & Service .....	1,075,567	8,649	785,943	—	—	1,681
POSCO COATED & COLOR STEEL Co., Ltd. ....	444,513	12	—	—	12,313	195
POSCO ICT .....	929	2,593	356	209,893	26,231	161,173
eNtoB Corporation .....	—	3	297,119	10,433	137	21,073
POSCO CHEMTECH .....	532,973	26,537	513,759	5,449	301,149	923
POSCO ENERGY CO., LTD. ....	177,517	1,230	—	2,263	—	20
POSCO TMC Co., Ltd. ....	240,318	9	—	—	1,056	1,611
POSCO AST .....	503,452	5	10,396	—	57,355	2,671
POSHIMETAL Co., Ltd. ....	11,261	3,660	166,442	—	—	—
Daewoo International Corporation .....	3,558,652	20,652	90,361	—	—	3,857
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.) .....	5,313	201,927	40,124	—	1,939	266
POSCO America Corporation .....	747,933	2	—	—	—	1,794
POSCO Canada Ltd. ....	—	—	141,767	—	—	—
POSCO Asia Co., Ltd. ....	2,167,148	89	169,945	—	10,006	1,969
Qingdao Pohang Stainless Steel Co., Ltd. ....	79,783	—	—	—	—	19
POSCO JAPAN Co., Ltd. ....	1,329,947	4	15,165	2,269	3	2,279
POSCO MEXICO S.A. DE C.V. ....	287,468	929	—	—	—	—
POSCO Maharashtra Steel Private Limited .....	444,407	6,053	—	—	—	—
Others .....	980,410	4,149	334,577	66,345	232,682	104,275
	<u>12,610,250</u>	<u>293,292</u>	<u>3,110,156</u>	<u>543,938</u>	<u>646,560</u>	<u>334,658</u>
<b>Associates and joint ventures</b>						
POSCO PLANTEC Co., Ltd. <sup>(2)</sup> .....	15,310	64	3,195	119,369	15,777	22,751
SNNC .....	3,077	5,716	339,991	—	—	5
POSCHROME (PROPRIETARY) LIMITED .....	—	—	59,241	—	—	—
POSCO-SAMSUNG-Slovakia Processing Center .....	24,059	—	—	—	—	—
Others <sup>(1)</sup> .....	10,785	41,903	3,668	—	—	—
	<u>53,231</u>	<u>47,683</u>	<u>406,095</u>	<u>119,369</u>	<u>15,777</u>	<u>22,756</u>
	<u>₩12,663,481</u>	<u>340,975</u>	<u>3,516,251</u>	<u>663,307</u>	<u>662,337</u>	<u>357,414</u>

(\*1) POSCO made loans of USD 3.85 million to LLP POSUK Titanium, an associate of the Company, during the year ended December 31, 2014.

(\*2) It was reclassified from an associate to a subsidiary.

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements, Continued

### As of December 31, 2013, 2014 and 2015

#### 3) For the year ended December 31, 2015

	Sales and others <sup>(*1)</sup>		Purchase and others <sup>(*2)</sup>			
	Sales	Others	Purchase of material	Purchase of fixed assets	Outsourced processing cost	Others
	(in millions of Won)					
<b>Subsidiaries <sup>(*3)</sup></b>						
POSCO ENGINEERING & CONSTRUCTION., LTD. .... W	4,441	145	19	427,760	2,250	37,488
POSCO Processing & Service .....	1,074,826	24	437,626	—	—	2,281
POSCO COATED & COLOR STEEL Co., Ltd. ....	380,626	—	—	—	9,359	104
POSCO ICT <sup>(*4)</sup> .....	1,259	7	—	210,877	29,612	182,745
eNtoB Corporation .....	—	—	261,989	6,501	130	22,017
POSCO CHEMTECH .....	436,594	30,343	519,956	9,515	297,183	1,773
POSCO ENERGY CO., LTD. ....	188,458	1,359	—	—	—	6
POSCO TMC Co., Ltd. ....	263,242	—	—	—	1,497	1,560
POSCO AST .....	362,658	15	4,115	—	39,175	1,611
POSHIMETAL Co., Ltd. ....	10,777	151	145,165	—	—	46
Daewoo International Corporation .....	3,505,187	34,334	46,675	—	—	480
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.) <sup>(*5)</sup> .....	2,811	176,904	8,239	—	515	75
POSCO PLANTEC Co., Ltd. <sup>(*5)</sup> .....	4,280	33	2,544	125,192	15,135	13,649
POSCO Thainox Public Company Limited .....	268,576	10	5,147	—	—	34
PT. KRAKATAU POSCO .....	—	—	118,888	—	—	—
POSCO America Corporation .....	624,549	6	—	—	—	725
POSCO Canada Ltd. ....	—	—	111,243	—	—	—
POSCO Asia Co., Ltd. ....	1,822,932	960	269,086	—	513	2,273
Qingdao Pohang Stainless Steel Co., Ltd. ....	118,845	—	—	—	—	220
POSCO JAPAN Co., Ltd. ....	1,051,910	9,383	25,957	2,278	201	2,754
POSCO MEXICO S.A. DE C.V. ....	270,184	80	—	—	—	11
POSCO Maharashtra Steel Private Limited .....	421,244	752	—	—	—	31
Others <sup>(*6)</sup> .....	867,334	14,474	223,393	113,769	212,539	129,506
	<u>11,680,733</u>	<u>268,980</u>	<u>2,180,042</u>	<u>895,892</u>	<u>608,109</u>	<u>399,389</u>
<b>Associates and joint ventures <sup>(*3)</sup></b>						
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.) <sup>(*5)</sup> .....	6,042	—	3,802	—	419	—
POSCO PLANTEC Co., Ltd. <sup>(*5)</sup> .....	147	14	1,017	82,338	3,513	4,676
SNNC .....	4,673	594	422,420	—	—	—
POSCO-SAMSUNG-Slovakia Processing center .....	26,379	—	—	—	—	—
Others <sup>(*7,8)</sup> .....	28,841	40,600	51,855	—	—	—
	<u>66,082</u>	<u>41,208</u>	<u>479,094</u>	<u>82,338</u>	<u>3,932</u>	<u>4,676</u>
	<u>W11,746,815</u>	<u>310,188</u>	<u>2,659,136</u>	<u>978,230</u>	<u>612,041</u>	<u>404,065</u>

(\*1) Sales and others mainly consist of sales of steel products to subsidiaries, associates and joint ventures.

(\*2) Purchases and others mainly consist of subsidiaries' purchases of construction services and purchases of raw materials to manufacture steel products.

(\*3) As of December 31, 2015, the Company provided guarantees to related parties (Note 38).

(\*4) Others (purchase) mainly consist of service fees related to maintenance and repair of ERP System.

(\*5) Reclassified from subsidiaries to associates (Note 11).

(\*6) POSCO borrowed USD 17.42 million from POSCO-Uruguay S.A, a subsidiary of the Company, and the entire amount was repaid during the year ended December 31, 2015.

(\*7) POSCO lent USD 60 million to CSP-Compania Siderurgica do Pecem, an associate of POSCO, and the entire amount of loan was collected during the year ended December 31, 2015.

(\*8) POSCO collected the loan of USD 3.85 million from LLP POSUK Titanium, an associate of the Company, during the year ended December 31, 2015.

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements, Continued

### As of December 31, 2013, 2014 and 2015

(b) The related account balances of significant transactions between the controlling company and related companies as of December 31, 2014 and 2015 are as follows:

#### 1) December 31, 2014

	Receivables			Payables			
	Trade accounts and notes receivable	Others	Total	Trade accounts and notes payable	Accounts payable	Others	Total
	(in millions of Won)						
<b>Subsidiaries</b>							
POSCO ENGINEERING & CONSTRUCTION., LTD. ....	₩ 42	71,967	72,009	—	41,878	—	41,878
POSCO Processing & Service	94,790	92	94,882	15,202	867	—	16,069
POSCO COATED & COLOR STEEL Co., Ltd. ....	69,314	67	69,381	—	5	1,936	1,941
POSCO ICT	13	103	116	920	70,823	5,425	77,168
eNtoB Corporation	—	—	—	12,564	28,432	43	41,039
POSCO CHEMTECH	49,456	4,283	53,739	57,610	9,890	17,864	85,364
POSCO ENERGY CO., LTD.	17,326	2,809	20,135	—	—	1,962	1,962
POSCO TMC Co., Ltd.	27,429	30	27,459	—	117	115	232
POSCO AST	44,281	54	44,335	—	2,458	3,364	5,822
POSHIMETAL Co., Ltd.	1,269	14	1,283	—	12,846	—	12,846
Daewoo International Corporation	164,029	3,178	167,207	8	210	1	219
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.)	822	201,823	202,645	4,800	140	184	5,124
POSCO America Corporation	57,164	—	57,164	—	1,511	—	1,511
POSCO Asia Co., Ltd.	197,104	221	197,325	10,995	—	—	10,995
POSCO (Thailand) Company Limited	7,407	266	7,673	—	—	—	—
Qingdao Pohang Stainless Steel Co., Ltd.	14,748	41	14,789	—	—	—	—
POSCO MEXICO S.A. DE C.V.	96,800	—	96,800	—	—	—	—
POSCO Maharashtra Steel Private Limited	364,899	7,714	372,613	—	—	—	—
Others	175,567	58,592	234,159	15,494	75,051	29,076	119,621
	<u>1,382,460</u>	<u>351,254</u>	<u>1,733,714</u>	<u>117,593</u>	<u>244,228</u>	<u>59,970</u>	<u>421,791</u>
<b>Associates and joint ventures</b>							
SNNC	219	125	344	7,017	—	—	7,017
POSCHROME (PROPRIETARY) LIMITED	—	—	—	1,162	—	—	1,162
LLP POSUK Titanium	—	4,235	4,235	—	—	—	—
Others	258	18	276	234	—	—	234
	<u>477</u>	<u>4,378</u>	<u>4,855</u>	<u>8,413</u>	<u>—</u>	<u>—</u>	<u>8,413</u>
	<u>₩ 1,382,937</u>	<u>355,632</u>	<u>1,738,569</u>	<u>126,006</u>	<u>244,228</u>	<u>59,970</u>	<u>430,204</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

2) December 31, 2015

	Receivables			Payables			
	Trade accounts and notes receivable	Others	Total	Trade accounts and notes payable	Accounts payable	Others	Total
	(in millions of Won)						
<b>Subsidiaries</b>							
POSCO ENGINEERING & CONSTRUCTION., LTD.	₩ 508	30,368	30,876	—	42,159	1,002	43,161
POSCO Processing & Service	74,985	175	75,160	10,868	603	—	11,471
POSCO COATED & COLOR STEEL Co., Ltd.	43,669	66	43,735	—	—	1,262	1,262
POSCO ICT	—	6,832	6,832	1,060	94,865	5,880	101,805
eNtoB Corporation	—	—	—	8,683	14,209	12	22,904
POSCO CHEMTECH	32,670	4,500	37,170	54,636	11,398	18,062	84,096
POSCO ENERGY CO., LTD.	18,680	2,585	21,265	—	—	—	—
POSCO TMC Co., Ltd.	63,521	31	63,552	—	180	195	375
POSCO AST	54,844	54	54,898	—	1,915	3,294	5,209
POSHIMETAL Co., Ltd.	707	9	716	—	10,148	—	10,148
Daewoo International Corporation	144,970	—	144,970	—	—	—	—
POSCO Thainox Public Company Limited	65,152	2	65,154	542	—	—	542
POSCO America Corporation	38,715	—	38,715	—	—	—	—
POSCO Asia Co., Ltd.	299,608	235	299,843	21,198	69	—	21,267
Qingdao Pohang Stainless Steel Co., Ltd.	16,689	—	16,689	—	—	—	—
POSCO MEXICO S.A. DE C.V.	94,588	—	94,588	—	—	—	—
POSCO Maharashtra Steel Private Limited	205,390	20	205,410	—	—	—	—
Others	172,019	5,035	177,054	18,208	45,476	23,985	87,669
	1,326,715	49,912	1,376,627	115,195	221,022	53,692	389,909
<b>Associates and joint ventures</b>							
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.)	1,201	—	1,201	161	15	—	176
POSCO PLANTEC Co., Ltd.	123	19	142	1,901	46,159	—	48,060
SNNC	298	20	318	639	2	—	641
Others	740	12,200	12,940	—	145	—	145
	2,362	12,239	14,601	2,701	46,321	—	49,022
₩	1,329,077	62,151	1,391,228	117,896	267,343	53,692	438,931

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements, Continued

### As of December 31, 2013, 2014 and 2015

(c) Significant transactions between the Company, excluding the controlling company, and related companies for the years ended December 31, 2014 and 2015 were as follows:

#### 1) December 31, 2013

	Sales and others		Purchase and others	
	Sales	Others	Purchase of material	Others
	(in millions of Won)			
<b>Associates and joint ventures</b>				
New Songdo International City Development, LLC	₩ 307,037	4,909	—	—
SNNC	95,748	96	—	10
Gunggi Green Energy	173,460	—	—	—
Posco e&c Songdo International Building	6,670	—	—	22,487
SUNGJIN GEOTEC Co., Ltd.	12,823	435	2,609	101,332
VSC POSCO Steel Corporation	118	135	7,909	—
USS-POSCO Industries	416,826	—	4,931	—
AN KHANH NEW CITY DEVELOPMENT J.V CO., LTD.	42,894	—	—	—
CSP — Companhia Siderurgica do Pecem	832,275	—	—	—
Zhongyue POSCO (Qinhuangdao) Tinsplate Industrial Co., Ltd.	149,356	—	125,121	—
BX STEEL POSCO Cold Rolled Sheet Co., Ltd.	2	—	29,757	—
POSCO SeAH Steel Wire(Nantong) Co., Ltd.	46,689	62	3	—
Zhangjiagang Pohang Refractories Co., Ltd.	1,129	288	24,787	2,526
Sebang Steel	—	—	56,343	—
SHANGHAI WAIGAOQIAO FREE TRADE ZONE LANSHENG DAEWOO IN'L TRADING CO., LTD.	260,547	—	—	14,657
KOREA LNG LTD.	—	21,999	—	—
South-East Asia Gas Pipeline Company Ltd.	—	10,258	—	—
Others	206,075	30,480	26,685	1,725
	<u>₩ 2,551,649</u>	<u>68,662</u>	<u>278,145</u>	<u>142,737</u>

#### 2) December 31, 2014

	Sales and others		Purchase and others	
	Sales	Others	Purchase of material	Others
	(in millions of Won)			
<b>Associates and joint ventures</b>				
New Songdo International City Development, LLC	₩ 492,134	227	—	58
SNNC	131,181	441	3,798	3,690
Posco e&c Songdo International Building	6,311	—	—	23,502
POSCO PLANTEC Co., Ltd.	20,614	2	1,758	123,720
VSC POSCO Steel Corporation	4,590	660	14,828	—
USS-POSCO Industries	484,007	—	4,003	—
AN KHANH NEW CITY DEVELOPMENT J.V CO., LTD.	3,793	—	—	—
CSP — Companhia Siderurgica do Pecem	1,524,040	—	—	—
Zhongyue POSCO (Qinhuangdao) Tinsplate Industrial Co., Ltd.	140,512	103	110,371	—
POSCO SeAH Steel Wire(Nantong) Co., Ltd.	48,863	—	—	—
Zhangjiagang Pohang Refractories Co., Ltd.	909	377	21,395	2,716
Sebang Steel	—	—	39,908	—
SHANGHAI WAIGAOQIAO FREE TRADE ZONE LANSHENG DAEWOO IN'L TRADING CO., LTD.	219,595	—	—	11,542
DMSA/AMSA	31	7,621	—	—
South-East Asia Gas Pipeline Company Ltd.	—	27,305	—	—
Others	214,661	22,607	41,638	5,287
	<u>₩ 3,291,241</u>	<u>59,343</u>	<u>237,699</u>	<u>170,515</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

3) December 31, 2015

	Sales and others		Purchase and others	
	Sales	Others	Purchase of material	Others
	(in millions of Won)			
<b>Associates and joint ventures</b>				
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.)	₩ 32,802	—	49,862	1,977
POSCO PLANTEC Co., Ltd.	7,218	—	5,953	6,386
New Songdo International City Development, LLC	420,094	—	—	667
SNNC	32,160	44	6,518	53,260
Posco e&c Songdo International Building	6,278	—	—	25,197
VSC POSCO Steel Corporation	37,416	—	2,395	3
USS-POSCO Industries	353,626	—	1,109	—
CSP — Companhia Siderurgica do Pecem	845,979	—	—	—
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., Ltd	68,300	111	70,236	—
BX STEEL POSCO Cold Rolled Sheet Co., Ltd.	3	—	23,320	—
POS-SEAHSTEELWIRE(TIANJIN) CO., Ltd	9,668	—	—	—
POSCO SeAH Steel Wire(Nantong) Co., Ltd.	30,310	—	4	—
Zhangjiagang Pohang Refractories Co., Ltd.	970	1,248	17,484	2,023
Sebang Steel	—	—	29,007	—
SHANGHAI WAIGAOQIAO FREE TRADE ZONE LANSHENG DAEWOO IN'L TRADING CO., LTD.	214,521	—	3,960	3,190
DMSA/AMSA	800	9,322	241,074	—
South-East Asia Gas Pipeline Company Ltd.	—	47,556	—	—
Others	415,217	17,793	18,518	2,683
	<u>₩ 2,475,362</u>	<u>76,074</u>	<u>469,440</u>	<u>95,386</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(d) The related account balances of significant transactions between the Company, excluding the controlling company, and related companies as of December 31, 2014 and December 31, 2015 are as follows:

1) December 31, 2014

	Receivables				Payables		
	Trade accounts and notes receivable	Loan	Others	Total	Trade accounts and notes payable	Others	Total
	(in millions of Won)						
<b>Associates and joint ventures</b>							
METAPOLIS Co., Ltd. ....	₩ 28,437	26,000	6,712	61,149	—	—	—
New Songdo International City Development, LLC .....	336,796	—	52,969	389,765	—	20	20
SNNC .....	19,173	—	1,937	21,110	3,395	98	3,493
CHUNGJU ENTERPRISE CITY DEVELOPMENT Co., Ltd. ....	48,804	—	—	48,804	—	—	—
UI TRANS CORPORATION .....	33,424	—	—	33,424	—	—	—
USS-POSCO Industries .....	150,557	—	—	150,557	153	—	153
Nickel Mining Company SAS .....	609	16,488	58	17,155	—	4,729	4,729
AN KHANH NEW CITY DEVELOPMENT J.V CO., LTD. ....	51,166	54,960	282	106,408	—	4,020	4,020
CSP — Compania Siderurgica do Pecem .....	366,914	—	114,041	480,955	—	167,302	167,302
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., .....	31,521	11,212	5	42,738	12,000	—	12,000
PT. Batutua Tembaga Raya .....	—	34,342	—	34,342	—	—	—
POSCO SeAH Steel Wire(Nantong) Co., Ltd. ....	13,539	10,992	43	24,574	—	—	—
SHANGHAI WAIGAOQIAO FREE TRADE ZONE LANSHENG DAEWOO IN'L TRADING CO., LTD. ....	139,831	—	—	139,831	35	—	35
DMSA/AMSA .....	4,211	140,544	445	145,200	—	—	—
South-East Asia Gas Pipeline Company Ltd. ....	—	295,352	—	295,352	—	—	—
Others .....	80,772	27,170	10,676	118,618	8,402	23,919	32,321
	<u>₩ 1,305,754</u>	<u>617,060</u>	<u>187,168</u>	<u>2,109,982</u>	<u>23,985</u>	<u>200,088</u>	<u>224,073</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

2) December 31, 2015

	Receivables				Payables		
	Trade accounts and notes receivable	Loan	Others	Total	Trade accounts and notes payable	Others	Total
	(in millions of Won)						
<b>Associates and joint ventures</b>							
SeAH Changwon Integrated Special Steel (formerly, POSCO Specialty Steel Co., Ltd.)	₩ 8,721	—	—	8,721	3,489	19	3,508
POSCO PLANTEC Co., Ltd.	9,853	—	6	9,859	6,263	8,908	15,171
New Songdo International City Development, LLC	168,646	—	25,964	194,610	—	14	14
Posco e&c Songdo International Building	5,821	—	—	5,821	—	—	—
VSC POSCO Steel Corporation	17,283	—	—	17,283	34	—	34
USS-POSCO Industries	170,170	—	—	170,170	9	—	9
Nickel Mining Company SAS	2,353	17,580	67	20,000	—	—	—
AN KHANH NEW CITY DEVELOPMENT J.V CO., LTD.	63,132	58,600	642	122,374	—	3,982	3,982
CSP — Companhia Siderurgica do Pecem	410,005	—	118,112	528,117	—	138,111	138,111
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., Ltd	9,455	10,782	6	20,243	3,999	—	3,999
PT. Batutua Tembaga Raya	—	36,830	—	36,830	—	—	—
POSCO SeAH Steel Wire(Nantong) Co., Ltd.	8,961	11,720	48	20,729	4	—	4
SHANGHAI WAIGAOQIAO FREE TRADE ZONE LANSHENG DAEWOO IN'L TRADING CO., LTD.	90,195	—	—	90,195	921	—	921
DMSA/AMSA	—	99,854	—	99,854	—	—	—
South-East Asia Gas Pipeline Company Ltd.	—	283,954	—	283,954	—	—	—
Others	192,621	52,034	13,648	258,303	12,591	21,181	33,772
	<b>₩ 1,157,216</b>	<b>571,354</b>	<b>158,493</b>	<b>1,887,063</b>	<b>27,310</b>	<b>172,215</b>	<b>199,525</b>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(e) Significant financial transactions between the Company, excluding the controlling company, and related companies for the years ended December 31, 2014 and 2015 were as follows:

1) December 31, 2014

	<u>Beginning</u>	<u>Lend</u>	<u>Collect</u>	<u>Others <sup>(*)</sup></u>	<u>Ending</u>
	(in millions of Won)				
<b>Associates and joint ventures</b>					
Taegisan Wind Power Corporation	₩ 862	3,470	(4,332)	—	—
METAPOLIS Co., Ltd.	—	26,000	—	—	26,000
DMSA/AMSA	109,583	26,096	—	4,865	140,544
South-East Asia Gas Pipeline Company Ltd.	259,551	26,819	(3,308)	12,290	295,352
PT. Batutua Tembaga Raya	—	34,102	—	240	34,342
PT. Tanggamus Electric Power	—	1,660	—	73	1,733
VSC POSCO Steel Corporation	10,750	—	(8,785)	59	2,024
PT. POSMI Steel Indonesia	4,221	—	—	176	4,397
Nickel Mining Company SAS	—	15,790	—	698	16,488
POSK(Pinghu) Steel Processing Center Co., Ltd.	10,342	—	—	430	10,772
AN KHANH NEW CITY DEVELOPMENT J.V CO., LTD.	52,765	—	—	2,195	54,960
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., Ltd.	10,764	—	—	448	11,212
Hamparan Mulia	—	3,158	—	140	3,298
POS-SEAHSTEELWIRE (TIANJIN) CO., Ltd	—	4,602	—	344	4,946
POSCO SeAH Steel Wire(Nantong) Co., Ltd.	12,664	—	(1,263)	(409)	10,992
	<u>₩ 471,502</u>	<u>141,697</u>	<u>(17,688)</u>	<u>21,549</u>	<u>617,060</u>

(\*1) Includes adjustments of foreign currency translation differences and others.

2) December 31, 2015

	<u>Beginning</u>	<u>Lend</u>	<u>Collect</u>	<u>Others <sup>(*)</sup></u>	<u>Ending</u>
	(in millions of Won)				
<b>Associates and joint ventures</b>					
METAPOLIS Co., Ltd.	₩ 26,000	—	—	—	26,000
DMSA/AMSA <sup>(*)</sup>	140,544	21,653	—	(62,343)	99,854
South-East Asia Gas Pipeline Company Ltd.	295,352	—	(29,885)	18,487	283,954
PT. Batutua Tembaga Raya	34,342	—	—	2,488	36,830
PT. Tanggamus Electric Power	1,733	493	—	133	2,359
PT. Wampu Electric Power	—	4,299	—	155	4,454
VSC POSCO Steel Corporation	2,024	—	(2,024)	—	—
PT. POSMI Steel Indonesia	4,397	—	—	291	4,688
Nickel Mining Company SAS	16,488	—	—	1,092	17,580
POSK(Pinghu) Steel Processing Center Co., Ltd.	10,772	—	(5,543)	514	5,743
AN KHANH NEW CITY DEVELOPMENT J.V CO., LTD.	54,960	—	—	3,640	58,600
Zhongyue POSCO (Qinhuangdao) Tinplate Industrial Co., Ltd.	11,212	—	(1,132)	702	10,782
Hamparan Mulia	3,298	—	—	218	3,516
POS-SEAHSTEELWIRE (TIANJIN) CO., Ltd	4,946	—	—	328	5,274
POSCO SeAH Steel Wire(Nantong) Co., Ltd.	10,992	—	—	728	11,720
	<u>₩ 617,060</u>	<u>26,445</u>	<u>(38,584)</u>	<u>(33,567)</u>	<u>571,354</u>

(\*1) During the year ended December 31, 2015, loans amounting to ₩72,430 have been converted to shares of DMSA/AMSA, and its amount is included in others.

(\*2) Includes adjustments of foreign currency translation differences and others.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(f) For the years ended December 31, 2013, 2014 and 2015, details of compensation to key management officers were as follows:

	<u>2013</u>	<u>2014</u>	<u>2015</u>
	(in millions of Won)		
Short-term benefits .....	₩ 121,054	116,961	111,278
Long-term benefits .....	23,480	17,242	19,513
Retirement benefits .....	<u>20,713</u>	<u>21,604</u>	<u>21,850</u>
	<u>₩ 165,247</u>	<u>155,807</u>	<u>152,641</u>

Key management officers include directors (including non-standing directors), executive officials and fellow officials who have significant influences and responsibilities in the Company's business and operations.

**38. Commitments and Contingencies**

(a) Contingent liabilities

Contingent liabilities may develop in a way not initially expected. Therefore, management continuously assesses contingent liabilities to determine whether an outflow of resources embodying economic benefits has become probable. If it becomes probable that an outflow of future economic benefits will be required for an item previously dealt with as a contingent liability, a provision is recognized in the financial statements of the period in which the change in probability occurs (except in the extremely rare circumstances where no reliable estimate can be made).

Management makes estimates and assumptions that affect disclosures of commitments and contingencies. All estimates and assumptions are based on the evaluation of current circumstances and appraisals with the supports of internal specialists or external consultants.

Management regularly analyzes current information about these matters and provides for probable contingent losses including the estimate of legal expense to resolve the matters. Internal and external lawyers are used for these assessments. In making the decision regarding the need for a provision, management considers whether the Company has an obligation as a result of a past event, whether it is probable that an outflow of cash or other resources embodying economic benefits will be required to settle the obligation and the ability to make a reliable estimate of the amount of the obligation.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(b) Details of guarantees

Contingent liabilities on outstanding guarantees provided by the Company as of December 31, 2015, are as follows:

Guarantors	Guarantee beneficiary	Financial institution	Guarantee limit		Guarantee amount		
			Foreign currency	Won equivalent	Foreign currency	Won equivalent	
(in millions of Won)							
<b>[The Company]</b>							
POSCO	POSCO ASSAN TST STEEL INDUSTRY	HSBC and others	USD	146,527,500	171,730	131,874,750	154,557
	POSCO COATED STEEL (THAILAND) CO., LTD.	The Great & CO Co., Ltd (SPC)	THB	5,501,000,000	178,672	5,501,000,000	178,672
	POSCO Electrical Steel India Private Limited	ING and others	USD	83,784,000	98,195	83,784,000	98,195
	POSCO Investment Co., Ltd.	BOA and others	USD	335,000,000	392,620	272,000,000	318,784
	POSCO Maharashtra Steel Private Limited	Export-Import Bank of Korea and others	USD	566,069,000	663,433	466,562,100	546,811
	POSCO MEXICO S.A. DE C.V.	HSBC and others	USD	284,725,000	333,698	234,725,000	275,098
	POSCO SS-VINA	Export-Import Bank of Korea and others	USD	354,351,050	415,300	354,351,050	415,300
	POSCO VST CO., LTD.	ANZ and others	USD	65,000,000	76,180	40,625,000	47,613
	POSCO(Guangdong) Automotive Steel Co., Ltd.	SMBC and others	USD	65,000,000	76,180	65,000,000	76,180
	POSCO-VIETNAM Co., Ltd.	Export-Import Bank of Korea	USD	196,000,000	229,712	196,000,000	229,712
	PT. KRAKATAU POSCO	Export-Import Bank of Korea and others	USD	1,350,300,000	1,582,552	1,234,532,175	1,446,874
	Zhangjiagang Pohang Stainless Steel Co., Ltd.	MIZUHO and others	USD	130,000,000	152,360	130,000,000	152,360
Daewoo International Corporation	Daewoo International INDIA Private Ltd.	Shinhan Bank	USD	20,000,000	23,440	8,799,114	10,313
	Daewoo Paper Manufacturing Co., Ltd.	HSBC	USD	12,500,000	14,650	12,500,000	14,650
	DAEWOO TEXTILE BUKHARA LLC	Export-Import Bank of Korea	USD	12,000,000	14,064	12,000,000	14,064
	POSCO ASSAN TST STEEL INDUSTRY	ING and others	USD	14,652,750	17,173	14,652,750	17,173
	PT. Bio Inti Agrindo	Export-Import Bank of Korea	USD	59,500,000	69,734	59,500,000	69,734
POSCO ENGINEERING & CONSTRUCTION CO., LTD.	HONG KONG POSCO E&C (CHINA) INVESTMENT Co., Ltd.	Woori Bank and others	USD	147,000,000	172,284	141,500,000	165,838

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

Guarantors	Guarantee beneficiary	Financial institution	Guarantee limit		Guarantee amount		
			Foreign currency	Won equivalent	Foreign currency	Won equivalent	
			(in millions of Won)				
	POSCO E&C Vietnam Co., Ltd.	Export-Import Bank of Korea	USD	16,500,000	19,338	16,500,000	19,338
	POSCO ENGINEERING & CONSTRUCTION DO BRAZIL LTDA.	HSBC	USD	100,000,000	117,200	100,000,000	117,200
	SANTOSMI S.A.	SG Bank and others	USD	2,163,000	2,535	2,163,000	2,535
	POSCO Engineering and Construction India Private Limited	Shinhan Bank	USD	70,000,000	82,040	68,500,000	80,282
POSCO ICT	PT.POSCO ICT INDONESIA	POSCO INVESTMENT Co., Ltd.	USD	2,100,000	2,461	2,100,000	2,461
POSCO Engineering Co., Ltd	POSCO ENGINEERING (THAILAND) CO., LTD.	HSBC	USD	16,000,000	18,752	16,000,000	18,752
	PT PEN INDONESIA	POSCO INVESTMENT Co., Ltd.	USD	6,000,000	7,032	6,000,000	7,032
POSCO CHEMTECH	KRAKATAU POS-CHEM DONG-SUH CHEMICAL	Hana Bank	USD	5,883,750	6,896	4,247,731	4,978
	PT.Krakatau Posco Chemtech Calcination	KEB Bank	USD	33,600,000	39,379	28,235,294	33,092
POSCO Processing & Service	POSCO Canada Ltd.	Hana Bank	USD	9,363,375	10,974	8,917,500	10,451
	POSCO Gulf SFC LLC	KEB Bank and others	USD	33,000,000	38,676	28,900,000	33,871
DAEWOO TEXTILE BUKHARA LLC	DAEWOO TEXTILE FERGANA LLC	National Bank of Uzbekistan	USD	6,127,060	7,181	6,127,060	7,181
DAEWOO TEXTILE FERGANA LLC	DAEWOO TEXTILE BUKHARA LLC	Bukhara TEX	USD	2,320,273	2,719	2,320,273	2,719
POSCO E&C CHINA CO., LTD.	HONG KONG POSCO E&C (CHINA) INVESTMENT Co., Ltd.	Woori Bank	USD	17,000,000	19,924	13,000,000	15,236
POSCO INVESTMENT Co., Ltd.	Zhangjiagang Pohang Stainless Steel Co., Ltd.	BOA and others	USD	103,000,000	120,716	72,000,000	84,384
POSCO-China Holding Corp.	DONG FANG JIN HONG	Bank of Communications and others	CNY	1,850,000,000	334,018	1,604,614,736	289,713
POSCO-Japan Co., Ltd.	POSCO-JEPC Co., Ltd.	MIZUHO and others	JPY	1,021,811,730	9,932	90,024,190	875
	POSCO-JWPC Co., Ltd.	Higo Bank and others	JPY	974,000,000	9,467	745,600,000	7,247
	Xenesys Inc.	Aozora Bank	JPY	250,000,000	2,430	200,000,000	1,944

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

Guarantors	Guarantee beneficiary	Financial institution	Guarantee limit		Guarantee amount		
			Foreign currency	Won equivalent	Foreign currency	Won equivalent	
(in millions of Won)							
POSCO-VIETNAM CO., LTD.	POSCO	Export-Import Bank of Korea	USD	196,000,000	229,712	196,000,000	229,712
SANTOS CMI S.A.	COMPANIADEAUTOMATIZACION & CONTROL, GENESYS S.A.	Banco de Guayaquil and others	USD	670,000	785	570,000	668
POSCO COATED & COLOR STEEL Co., Ltd.	Myanmar POSCO C&C Company, Limited.	POSCO INVESTMENT Co., Ltd.	USD	13,986,947	16,393	13,986,947	16,393
PT.POSCO ICT INDONESIA	POSCO LED CO., LTD	UOB	KRW	8,000	8,000	8,000	8,000
POSCO ENERGY CO., LTD.	PT. Krakatau Posco Energy	Export-Import Bank of Korea and others	USD	193,900,000	227,251	169,724,685	198,917
<b>[Associates and joint ventures]</b>							
POSCO	CSP — Compania Siderurgica do Pecem	Export-Import Bank of Korea and others	USD	420,000,000	492,239	373,121,694	437,298
	LLP POSUK Titanium	BNDES KB Bank	BRL USD	464,060,000 15,000,000	137,366 17,580	274,129,418 15,000,000	81,145 17,580
Daewoo International Corporation	GLOBAL KOMSCO Daewoo LLC	ICBC and others	USD	8,225,000	9,640	8,225,000	9,640
POSCO ENGINEERING & CONSTRUCTION CO., LTD.	NSIC and others	Others	KRW	696,600	696,600	687,100	687,100
POSCO ICT	INCHEON GIMPO EXPRESSWAY CO., LTD	KDB Bank	KRW	100,000	100,000	100,000	100,000
	UI TRANS CORPORATION	KB Bank	KRW	76,000	76,000	76,000	76,000
POSCO CHEMTECH	PT.INDONESIA POS CHEMTECH CHOSUN Ref	KEB Bank	USD	4,500,000	5,274	4,500,000	5,274
POSCO Processing&Service	Sebang Steel	Shinhan Bank	JPY	122,500,000	1,191	122,500,000	1,191
DAEWOO (CHINA) CO., LTD.	SHANGHAI LANSHENG DAEWOO CORP.	Bank of Communications	CNY	30,000,000	5,417	30,000,000	5,417
	SHANGHAI WAIGAOQIAO FREE TRADE ZONE LANSHENG DAEWOO IN'L TRADING CO., LTD.	Bank of Communications	CNY	50,000,000	9,028	50,000,000	9,028
<b>[Others]</b>							
Daewoo International Corporation	Ambatovy Project Investments Limited and others	Export-Import Bank of Korea	USD	115,362,525	135,205	74,482,525	87,294

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

Guarantors	Guarantee beneficiary	Financial institution	Guarantee limit			Guarantee amount	
			Foreign currency	Won equivalent	Foreign currency	Won equivalent	
(in millions of Won)							
POSCO ENGINEERING & CONSTRUCTION CO., LTD.	Ecocity CO., LTD and others	Others	KRW	768,150	768,150	484,202	484,202
	THE GALE INVESTMENTS COMPANY, L.L.C.	Woori Bank	USD	50,000,000	58,600	50,000,000	58,600
POSCO ICT	Hyochun CO., LTD	Daegu Bank and others	KRW	39,575	39,575	39,575	39,575
	SMS Energy and others	Hana Bank and others	KRW	295,420	295,420	179,313	179,313
	BLT Enterprise and others	Kyobo Life Insurance Co., Ltd and others	KRW	1,823,015	1,823,015	1,823,015	1,823,015
POSCO Engineering CO., Ltd	SAMJIN SOLAR ENERGY and others	Hana Bank and others	KRW	22,440	22,440	11,966	11,966
Daewoo International Japan Corp.	Daewoo International Japan Corp.	HSBC	JPY	800,000,000	7,776	800,000,000	7,776
HUME COAL PTY LTD	Department of Trade and Investment (NSW Government)	Woori Bank	AUD	804,000	686	804,000	686
POSCO AUSTRALIA PTY LTD	Department of Trade and Investment (NSW Government)	Woori Bank	AUD	8,023,765	6,845	8,023,765	6,845
POSCO(Suzhou) Automotive Processing Center Co., Ltd.	POS INFRA AUTO	Shinhan Bank	CNY	2,925,000	528	2,242,500	405
			USD	405,000	475	405,000	475
			USD	5,283,516,230	6,192,282	4,739,432,648	5,554,619
			KRW	3,829,200	3,829,200	3,409,171	3,409,171
			CNY	1,932,925,000	348,991	1,686,857,236	304,563
			THB	5,501,000,000	178,672	5,501,000,000	178,672
			JPY	3,168,311,730	30,796	1,958,124,190	19,033
			AUD	8,827,765	7,531	8,827,765	7,531
			BRL	464,060,000	137,366	274,129,418	81,145

(c) POSCO ENGINEERING & CONSTRUCTION Co., Ltd. has provided the completion guarantees for Samsung C&T Corporation amounting to ₩1,007,107 million while Samsung C&T Corporation has provided the construction guarantees or payment guarantees on customers' borrowings on behalf of POSCO ENGINEERING & CONSTRUCTION Co., Ltd. amounting to ₩708,400 million as of December 31, 2015.

# POSCO and Subsidiaries

## Notes to the Consolidated Financial Statements, Continued

### As of December 31, 2013, 2014 and 2015

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#### (d) Other commitments

Details of other commitments of the Company as of December 31, 2015, are as follows:

POSCO .....	<p>POSCO entered into long-term contracts to purchase iron ore, coal, nickel and others. The contracts of iron ore and coal generally have terms of more than three years and the contracts of nickel have terms of more than one year. These contracts provide for periodic price adjustments based on the market price. As of December 31, 2015, 166 million tons of iron ore and 26 million tons of coal remained to be purchased under such long-term contracts.</p> <p>POSCO entered into an agreement with Tangguh Liquefied Natural Gas (LNG) Consortium in Indonesia to purchase 550 thousand tons of LNG annually for 20 years commencing in August 2005. The purchase price is subject to change, based on changes of the monthly standard oil price (JCC) and with a price ceiling.</p> <p>As of December 31, 2015, POSCO entered into commitments with Korea National Oil Corporation for long-term foreign currency borrowings, which enables POSCO to borrow up to the amount of USD 24.50 million, USD 8.25 million and USD 6.49 million. The borrowings are related to POSCO's exploration of gas hydrates in Aral Sea, Uzbekistan, the exploration of gas hydrates in Namangan-Chust and the exploration of gas hydrates in Western Fergana-Chenavard, respectively. The repayment of the borrowings depends on the success of the projects. POSCO is not liable for the repayment of full or part of the amount borrowed if the respective projects fail. POSCO has agreed to pay a certain portion of its profits under certain conditions, as defined by the borrowing agreements. As of December 31, 2015, the ending balance of the borrowing amounts to USD 12.35 million.</p> <p>POSCO has provided a supplemental funding agreement, as the largest shareholder, as requested from the creditors, including Norddeutsche Landesbank, for seamless funding to POSCO ENERGY Co., Ltd. under construction of new power plant</p>
POSCO ENGINEERING & CONSTRUCTION CO., LTD. ....	<p>As of December 31, 2015, POSCO ENGINEERING &amp; CONSTRUCTION CO., LTD. has comprehensive loan agreements of up to ₩253.5 billion and USD 278 million with Woori Bank and ₩90 billion and USD 800 million with KEB Bank. Also, POSCO ENGINEERING &amp; CONSTRUCTION CO., LTD. has bank overdraft agreements of up to ₩20 billion with Woori Bank which is included in the limit of billion comprehensive loan agreements and ₩3 billion with KEB Bank. Comprehensive loan agreements include bank overdraft up to ₩20 billion of loans on checking account during the day with Woori Bank.</p>
POSCO ICT .....	<p>As of December 31, 2015, in relation to contract enforcement, POSCO ICT was provided with ₩67,032 million and ₩54,904 million guaranties from Korea Software Financial Cooperative and Seoul Guarantee Insurance, respectively.</p>

#### (e) Litigation in progress

As of December 31, 2015, POSCO and certain subsidiaries are defendants in legal actions arising from the normal course of business.

##### 1) Civil lawsuits with Nippon Steel & Sumitomo Metal Corporation

In April 2012, Nippon Steel & Sumitomo Metal Corporation (“NSSMC”) filed a civil lawsuit in the Tokyo District Court of Japan against POSCO and POSCO JAPAN Co., Ltd., a subsidiary of POSCO, alleging violation of trade secrets and seeking prohibition on production and sales of grain oriented electrical steel sheets and compensation from the Company of ₩958.4 billion. On September 30, 2015, pursuant to the agreement between POSCO and NSSMC, the pending lawsuit filed by NSSMC was withdrawn, along with all related lawsuits to strengthen the strategic partnership between the two companies. On the same date, the Company paid ₩299 billion as the settlement to NSSMC, therefore all litigations were withdrawn and closed.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

2) Other lawsuits and claims

Company	Legal actions	Claim amount	Korean Won equivalent	Description
		(In millions of Won, in thousands of foreign currencies)		
POSCO	35	KRW 122,008	122,008	Lawsuit on claim for damages and others (*)
	1	USD 5,410	6,341	Arbitration
Daewoo International Corporation	1	EUR 3,270	4,187	Lawsuit on claim for payment
	1	INR 4,458,849	78,610	Lawsuit on claim for payment on guarantees (*)
	9	KRW 11,296	11,296	Lawsuit on claim for payment and others
	6	USD 19,249	22,560	Lawsuit on claim for payment and others (*)
POSCO ENGINEERING & CONSTRUCTION., LTD.	60	KRW 146,545	146,545	Lawsuit on claim for payment on rent fees by PSIB and others
POSCO Processing&Service	2	KRW 151	151	Revoking of fraudulent act and others and others (*)
POSCO Engineering CO., Ltd	14	KRW 196,557	196,557	Lawsuit on claim for payment and others (*)
POSCO COATED & COLOR STEEL Co., Ltd.	1	KRW 200	200	Lawsuit on claim for payment and others
POSCO ICT	10	KRW 11,233	11,233	Lawsuit on claim for payment on construction and others
POSCO America Corporation	1	USD —	—	Lawsuit on claim for anti-trust and others
POSCO M-TECH	3	KRW 1,030	1,030	Lawsuit on claim for payment and others
POSCO ENERGY CO., LTD.	1	KRW 5,000	5,000	Lawsuit on claim for payment and revocation of electricity supply contract
POSCO E&C CHINA CO., LTD.	2	CNY 3,338	603	Lawsuit on claim for payment of reserve for construction warranty
	1	KRW 3,305	3,305	Lawsuit on claim for payment on construction
Daewoo International (America) Corp.	2	USD 10,456	12,254	Lawsuit on claim for indemnification damages and others
POSPower Co., Ltd.	2	KRW 10,667	10,667	Lawsuit on claim for payment on service contract
POSCO TNPC Otomotiv Celik San. Ve Tic. A.S	2	TRY —	—	Lawsuit on claim for unfair dismissal
SPFC CO., LTD	1	KRW 4,717	4,717	Lawsuit on claim for payment
BLUE O&M	1	KRW —	—	Charges under occupation safety and health acts
POSCO CHEMTECH	1	KRW 657	657	Lawsuit on claim for payment on construction
PT. KRAKATAU POSCO	2	IDR 180,096,201	15,308	Lawsuit on claim for payment on construction and others
SANTOS CMI S.A.	1	USD 322	377	Lawsuit on claim for dismissal payment
POSCO ENGINEERING & CONSTRUCTION DO BRAZIL LTDA.	18	BRL 22,309	6,604	Lawsuit on claim for payment and others
POSCO E&C VIETNAM CO., LTD.	2	USD 39	46	Lawsuit on claim for severance payment and others
POSCO-TISCO (JILIN) PROCESSING CENTER CO., LTD.	1	CNY 1,682	304	Lawsuit over execution of long-term note receivables
Brazil Sao Paulo Steel Processing Center	4	BRL 979	290	Lawsuit on claim for payment on construction and others

(\*1) The Company made a reliable estimate in nine lawsuits by considering the possibility and amount of outflow of resources and recognized ₩46,001 million as provision for legal contingencies and claims.

## POSCO and Subsidiaries

### Notes to the Consolidated Financial Statements, Continued

#### As of December 31, 2013, 2014 and 2015

For all the other lawsuits and claims, management does not believe the Company has any present obligations and therefore, the Company has not recognized any provisions as of December 31, 2015 for the matters.

#### 39. Cash Flows from Operating Activities

Adjustments for operating cash flows for the years ended December 31, 2013, 2014 and 2015 were as follows:

	2013	2014	2015
	(in millions of Won)		
Trade accounts and notes receivable	₩ (643,715)	(97,703)	1,586,113
Other receivables	(98,420)	(27,601)	259,741
Inventories	491,512	(1,130,138)	2,456,068
Other current assets	181,755	242,170	42,131
Other non-current assets	(23,412)	(53,225)	72,826
Trade accounts and notes payable	47,323	(385,914)	(894,129)
Other payables	194,419	271,117	39,811
Other current liabilities	81,317	(20,930)	(457,947)
Provisions	(42,052)	(63,884)	(119,172)
Payments severance benefits	(129,038)	(160,792)	(157,983)
Plan assets	(172,147)	(164,515)	(115,274)
Other non-current liabilities	4,158	(262,367)	72,267
	<u>₩ (108,300)</u>	<u>(1,853,782)</u>	<u>2,784,452</u>

#### 40. Non-Cash Transactions

Significant non-cash transactions for the years ended December 31, 2014 and 2015 were as follows:

	2014	2015
	(in millions of Won)	
Acquisition of available-for-sale investment through exchanging shares	₩ —	295,398
Transferred to assets held for sale	2,213,673	933,530
Transferred to liabilities related to assets held for sale	621,303	169,312

#### 41. Operating Segments and Geographic Information

(a) The Company's operating businesses are organized based on the nature of markets and customers. The Company has four reportable operating segments — steel, construction, trading and others. The steel segment includes production of steel products and revenue of such products. The construction segment includes planning, designing and construction of industrial plants, civil engineering projects and commercial and residential buildings, both in Korea and overseas. The trading segment consists of exporting and importing a wide range of steel products and raw materials that are both obtained from and supplied to POSCO, as well as between other suppliers and purchasers in Korea and overseas. Other segments include power generation, liquefied natural gas production, network and system integration and logistics.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(b) Information about reportable segments as of and for the years ended December 31, 2013, 2014 and 2015 was as follows:

1) As of and for the year ended December 31, 2013

	Steel	Trading	Construction	Others	Total
	(in millions of Won)				
External revenues	₩ 31,794,574	18,307,888	6,896,838	4,865,350	61,864,650
Internal revenues	16,229,002	7,611,372	3,885,190	3,019,246	30,744,810
Inter segment revenue	9,223,276	3,817,644	3,539,891	2,881,039	19,461,850
Total revenues	48,023,576	25,919,260	10,782,028	7,884,596	92,609,460
Interest income	162,149	46,064	47,070	19,892	275,175
Interest expenses	(412,142)	(77,375)	(48,030)	(106,824)	(644,371)
Depreciation and amortization	(2,383,010)	(43,775)	(36,614)	(235,365)	(2,698,764)
Impairment loss of property, plant and equipment and others	(34,153)	(975)	(4,058)	(11,875)	(51,061)
Impairment loss of available-for-sale financial assets	(203,468)	(435)	(97,919)	(10,172)	(311,994)
Share of profit or loss of investment in associates and JVs	(250,084)	(131,534)	(71,068)	(26,326)	(479,012)
Income tax expense	(466,756)	(27,549)	(87,660)	(73,371)	(655,336)
Segment profit	1,449,446	9,516	147,177	197,449	1,803,588
Segment assets	73,860,997	11,640,931	9,888,590	8,843,652	104,234,170
Investment in associates	16,863,991	1,019,252	1,090,089	598,775	19,572,107
Acquisition of non-current assets	5,955,799	242,413	150,469	1,191,243	7,539,924
Segment liabilities	23,774,850	8,649,557	6,068,059	5,059,440	43,551,906

2) As of and for the year ended December 31, 2014

	Steel	Trading	Construction	Others	Total
	(in millions of Won)				
External revenues	₩ 31,841,748	21,165,806	8,119,207	3,971,684	65,098,445
Internal revenues	17,755,182	10,095,123	2,184,519	3,094,647	33,129,471
Inter segment revenue	10,159,110	5,180,926	1,679,443	2,920,354	19,939,833
Total revenues	49,596,930	31,260,929	10,303,726	7,066,331	98,227,916
Interest income	148,288	47,905	27,297	18,694	242,184
Interest expenses	(524,735)	(92,855)	(61,954)	(127,843)	(807,387)
Depreciation and amortization	(2,779,723)	(121,163)	(52,268)	(331,444)	(3,284,598)
Impairment loss of property, plant and equipment and others	(137,708)	(35,131)	756	(50,085)	(222,168)
Impairment loss of available-for-sale financial assets	(352,830)	(1,097)	(24,588)	(14,444)	(392,959)
Share of profit or loss of investment in associates and JVs	(217,491)	(29,263)	(53,226)	(23,559)	(323,539)
Income tax expense	(691,030)	(114,587)	(45,147)	(21,415)	(872,179)
Segment profit	857,148	181,243	13,085	8,536	1,060,012
Segment assets	74,138,707	13,597,301	10,396,691	10,742,877	108,875,576
Investment in associates	18,227,743	1,076,373	1,091,402	1,154,187	21,549,705
Acquisition of non-current assets	2,348,979	399,273	701,019	906,685	4,355,956
Segment liabilities	23,750,464	10,384,329	6,345,852	6,139,971	46,620,616

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

3) As of and for the year ended December 31, 2015

	Steel	Trading	Construction	Others	Total
	(in millions of Won)				
External revenues	₩ 28,292,824	18,315,487	8,515,780	3,068,254	58,192,345
Internal revenues	16,543,951	8,692,020	1,352,067	2,691,361	29,279,399
Inter segment revenue	9,146,808	4,480,744	1,090,193	2,571,219	17,288,964
Total revenues	44,836,775	27,007,507	9,867,847	5,759,615	87,471,744
Interest income	139,821	55,630	27,134	16,173	238,758
Interest expenses	(560,767)	(76,672)	(91,742)	(141,095)	(870,276)
Depreciation and amortization	(2,782,680)	(166,814)	(50,605)	(282,817)	(3,282,916)
Impairment loss of property, plant and equipment and others	(243,828)	(17,281)	(28,345)	(22,979)	(312,433)
Impairment loss of available-for-sale financial assets	(151,503)	(1,410)	(47,616)	(40,261)	(240,790)
Share of profit or loss of investment in associates and JVs	(562,133)	(212,535)	(25,223)	(22,618)	(822,509)
Income tax expense	(390,000)	(4,772)	(30,615)	(18,718)	(444,105)
Segment profit	181,495	38,843	(275,651)	(65,570)	(120,883)
Segment assets	70,102,972	12,160,406	9,997,683	10,962,594	103,223,655
Investment in associates	17,457,391	1,097,971	1,076,024	1,186,307	20,817,693
Acquisition of non-current assets	2,102,674	303,753	276,863	345,971	3,029,261
Segment liabilities	21,078,613	8,953,410	5,716,550	6,472,925	42,221,498

(c) Reconciliations of total segment revenues, profit or loss, assets and liabilities, and other significant items to their respective consolidated financial statement line items are as follows:

1) Revenues

	2013	2014	2015
	(in millions of Won)		
Total revenue for reportable segments	₩ 92,609,460	98,227,916	87,471,744
Elimination of inter-segment revenue	(30,744,810)	(33,129,471)	(29,279,399)
Basis difference <sup>(2)</sup>	(98,907)	(339,820)	329,923
	₩ 61,765,743	64,758,625	58,522,268

2) Profit

	2013	2014	2015
	(in millions of Won)		
Total profit for reportable segments	₩ 1,803,588	1,060,012	(120,883)
Goodwill and corporate FV adjustments	(91,718)	(122,015)	(95,150)
Elimination of inter-segment profits	(356,690)	(381,338)	119,852
Income tax expense	590,997	821,485	276,939
Basis difference <sup>(2)</sup>	(8,132)	9,736	(30,413)
Profit before income tax expense	₩ 1,938,045	1,387,880	150,345

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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3) Assets

	<u>2014</u>	<u>2015</u>
	<b>(in millions of Won)</b>	
Total assets for reportable segments <sup>(*)</sup> .....	₩ 108,875,576	103,223,655
Equity-accounted investees .....	(17,487,024)	(16,872,523)
Goodwill and corporate FV adjustments .....	4,282,455	3,390,277
Elimination of inter-segment assets .....	(10,418,834)	(9,332,650)
Basis difference <sup>(2)</sup> .....	591,390	339,211
	<u>₩ 85,843,563</u>	<u>80,747,970</u>

(\*1) As segment assets and liabilities are determined based on separate financial statements, for subsidiaries which are in a different segment from that of its immediate parent company, their carrying amount in separate financial statements is eliminated upon consolidation. In addition, adjustments are made to adjust the amount of investment in associates and joint ventures from the amount reflected in segment assets to that determined using equity method in consolidated financial statements.

4) Liabilities

	<u>2014</u>	<u>2015</u>
	<b>(in millions of Won)</b>	
Total liabilities for reportable segments .....	₩ 46,620,616	42,221,498
Corporate FV adjustments .....	507,073	321,793
Elimination of inter-segment liabilities .....	(7,166,880)	(7,204,754)
Basis difference <sup>(2)</sup> .....	625,358	396,232
	<u>₩ 40,586,167</u>	<u>35,734,769</u>

5) Other significant items

a) December 31, 2013

	<u>Total segment</u>	<u>Corporate FV adjustments</u>	<u>Elimination of inter-segment transactions</u>	<u>Basis difference <sup>(2)</sup></u>	<u>Consolidated</u>
	<b>(in millions of Won)</b>				
Interest income .....	₩ 275,175	—	(14,777)	—	260,398
Interest expenses .....	(644,371)	(34,814)	21,504	—	(657,681)
Depreciation and amortization .....	(2,698,764)	(84,223)	97,437	—	(2,685,550)
Share of profit or loss of investment in associates .....	(479,012)	—	299,203	—	(179,809)
Income tax expense .....	(655,336)	25,074	39,265	1,968	(589,029)
Impairment loss on property, plant and equipment and others .....	(51,061)	—	(97,424)	—	(148,485)
Impairment loss on available-for-sale financial assets .....	(311,994)	—	31,757	—	(280,237)
	<u>₩ (4,565,363)</u>	<u>(93,963)</u>	<u>376,965</u>	<u>1,968</u>	<u>(4,280,393)</u>

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
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b) December 31, 2014

	<u>Total segment</u>	<u>Corporate FV adjustments</u>	<u>Elimination of inter-segment transactions</u>	<u>Basis difference (*2)</u>	<u>Consolidated</u>
	(in millions of Won)				
Interest income	₩ 242,184	—	(13,930)	—	228,254
Interest expenses	(807,387)	(45,668)	57,470	—	(795,585)
Depreciation and amortization	(3,284,598)	(111,263)	157,312	—	(3,238,549)
Share of profit or loss of investment in associates	(323,539)	—	23,646	—	(299,893)
Income tax expense	(872,179)	33,473	17,221	(2,356)	(823,841)
Impairment loss on property, plant and equipment and others	(222,168)	—	47,838	—	(174,330)
Impairment loss on available-for-sale financial assets	(392,959)	—	23,236	—	(369,723)
	<u>₩ (5,660,646)</u>	<u>(123,458)</u>	<u>312,793</u>	<u>(2,356)</u>	<u>(5,473,667)</u>

c) December 31, 2015

	<u>Total segment</u>	<u>Corporate FV adjustments</u>	<u>Elimination of inter-segment transactions</u>	<u>Basis difference (*2)</u>	<u>Consolidated</u>
	(in millions of Won)				
Interest income	₩ 238,758	—	(28,565)	—	210,193
Interest expenses	(870,276)	1,282	80,222	—	(788,772)
Depreciation and amortization	(3,282,916)	(117,595)	182,265	—	(3,218,246)
Share of profit or loss of investment in associates	(822,509)	—	316,455	—	(506,054)
Income tax expense	(444,105)	24,294	142,872	10,379	(266,560)
Impairment loss on property, plant and equipment and others	(312,433)	—	(142,234)	—	(454,667)
Impairment loss on available-for-sale financial assets	(240,790)	—	98,009	—	(142,781)
	<u>₩ (5,734,271)</u>	<u>(92,019)</u>	<u>649,024</u>	<u>10,379</u>	<u>(5,166,887)</u>

(\*2) Basis difference is related to the difference in recognizing revenue and expenses in connection with development and sale of certain residential real estate between the report reviewed by the CEO and the consolidated financial statements.

(d) Revenue by geographic area for years ended December 31, 2013, 2014 and 2015 was as follows:

	<u>2013</u>	<u>2014</u>	<u>2015</u>
	(in millions of Won)		
Domestic	₩ 45,854,919	45,465,347	39,598,830
Japan	1,920,253	2,047,686	1,934,808
China	6,493,119	6,319,101	5,756,867
Asia-other	3,011,980	5,055,373	5,888,045
North America	1,720,895	2,199,418	1,921,039
Others	2,764,577	3,671,700	3,422,679
	<u>₩ 61,765,743</u>	<u>64,758,625</u>	<u>58,522,268</u>

In presenting information on the basis of geography, segment revenue is based on the geographical location of customers.

**POSCO and Subsidiaries**  
**Notes to the Consolidated Financial Statements, Continued**  
**As of December 31, 2013, 2014 and 2015**

(e) Non-current assets by geographic area as of December 31, 2014 and 2015 are as follows:

	<u>2014</u>	<u>2015</u>
	<u>(in millions of Won)</u>	
Domestic .....	₩ 33,837,971	32,693,800
Japan .....	177,322	174,979
China .....	1,745,125	1,631,863
Asia-other .....	4,867,569	5,969,215
North America .....	186,753	152,935
Others .....	2,367,036	1,390,109
	<u>₩ 43,181,776</u>	<u>42,012,901</u>

Non-current assets by geographic area include investment property, property, plant and equipment, goodwill and other intangible assets.

(f) There are no customers whose revenue is 10% or more of consolidated revenue.

## SIGNATURES

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

POSCO

\_\_\_\_\_  
*(Registrant)*

/s/ Kwon, Oh-Joon

\_\_\_\_\_  
Name: Kwon, Oh-Joon

Title: Chief Executive Officer and  
Representative Director

Date: April 28, 2016

## Exhibit Index

- 1.1 — Articles of incorporation of POSCO (English translation)
- 2.1 — Form of Common Stock Certificate (including English translation) (incorporated by reference to Exhibit 4.3 to the Registrant's Registration Statement No. 33-81554)\*
- 2.2 — Form of Deposit Agreement (including Form of American Depositary Receipts) (incorporated by reference to the Registrant's Registration Statement (File No. 333-189473) on Form F-6)\*
- 8.1 — List of consolidated subsidiaries
- 12.1 — Certification pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 12.2 — Certification pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 13.1 — Certification pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

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\* Filed previously

This English language translation of the Articles of Incorporation has been prepared solely for reference purposes. In the event of any conflict between the Korean language version and this English language version, the Korean language version shall prevail.

**ARTICLES OF INCORPORATION**

Adopted on	March 6, 1968		
Amended on	July 10, 1968	February 20, 1969	March 20, 1969
	June 16, 1969	February 7, 1970	February 6, 1971
	November 23, 1971	February 4, 1972	November 29, 1972
	February 12, 1973	February 5, 1974	February 8, 1975
	February 6, 1976	February 8, 1977	February 25, 1978
	February 24, 1979	February 28, 1981	February 23, 1982
	February 18, 1984	February 5, 1985	February 26, 1986
	March 7, 1987	February 27, 1988	March 15, 1989
	March 6, 1990	March 14, 1991	March 7, 1992
	October 13, 1992	March 8, 1993	April 15, 1994
	March 15, 1995	March 15, 1996	March 14, 1997
	March 17, 1998	August 20, 1998	March 16, 1999
	March 17, 2000	March 16, 2001	March 15, 2002
	March 14, 2003	March 12, 2004	February 24, 2006
February 23, 2007	February 27, 2009	February 26, 2010	
February 25, 2011	March 16, 2012	March 11, 2016	

**CHAPTER I. GENERAL PROVISIONS**

**Article 1. Company Name**

The name of the Company in Korean shall be “**Chusik Hoesa POSCO**” and in English, “**POSCO**”

**Article 2. Purpose**

The purpose of the Company is to engage in the following business activities:

1. To manufacture, market, promote, sell and distribute iron, steel and rolled products;
2. To engage in harbor loading and unloading, transportation and warehousing businesses;
3. To engage in the management of professional athletic organizations;
4. To engage in the supply of LNG and power generation as well as in the distribution business thereof and in the resources development business;
5. To engage in leasing of real estate and distribution businesses;
6. To engage in the supply of district heating business;
7. To engage in marine transportation, processing and sales of minerals within or outside of Korea;
8. To engage in educational service and other services related to business;
9. To engage in manufacture, process and sale of non-ferrous metal;

10. To engage in technology license sales and engineering business; and
11. To engage in all other conducts, activities or businesses which are related, directly or indirectly, to the attainment and continuation of the foregoing purposes.

### **Article 3. Location of the Head Office and Branch Offices**

The head office of the Company shall be located at Pohang-si, Kyung-sangbuk-do, the Republic of Korea (“Korea”). Branch offices may be established elsewhere by resolution of the Board of Directors of the Company.

### **Article 4. Notices**

Public notices by the Company shall be disclosed on the website of the Company (<http://www.posco.com>). When such online disclosure is made impracticable due to online system error or any other electronic technical failure, public notices by the Company shall be disclosed in the Seoul Shinmun, the Maeil Shinmun and the Kwangju Ilbo, daily newspapers published in Seoul, Daegu Metropolitan City and Kwangju Metropolitan City, respectively.

## **CHAPTER II. SHARES**

### **Article 5. Total Number of Authorized Shares**

The total number of shares which the Company is authorized to issue (“Authorized Shares”) is two hundred million (200,000,000) shares.

### **Article 6. Face Value, Types of Shares and Share Certificates**

The types of shares to be issued by the Company shall be registered common shares and registered preferred shares, having a face value of 5,000 Won per share.

Share certificates shall be issued by the Company in denominations of one (1), five (5), ten (10), fifty (50), one hundred (100), five hundred (500), one thousand (1,000) and ten thousand (10,000) shares as the shareholders may request.

### **Article 7. Number and Contents of Preferred Shares**

(1) Preferred shares to be issued by the Company shall be non-voting, and the number thereof shall not exceed the limit prescribed in the mandatory provisions of the applicable laws or regulations.

(2) The dividends on non-voting preferred shares shall be no less than nine percent (9%) per annum of the par value and the rate thereof shall be determined by the Board of Directors at the time of issuance.

(3) Notwithstanding Paragraph (2), a dividend on preferred shares shall not be required to be declared in case the amount available for dividend is less than the aggregate amount of the minimum dividend.

### **Article 8. Shares to be Issued at the Time of Incorporation**

The Company shall issue forty thousand (40,000) shares at the time of incorporation.

### **Article 9. No Issuance of Share Certificates**

If a shareholder does not desire to receive share certificates representing the whole or part of the shares owned by him, no share certificates representing such shares shall be issued by the Company.

**Article 9-2. Electronic Registration of Shares**

(1) The Company, by the resolutions of the Board of Directors, may elect to adopt the system that allows shareholders electronically register its shares on the electronic registrar on the designated electronic registration system instead of issuing certificates representing its shares.

(2) The Board of Directors shall determine the standard operation policy necessary for the Company's adoption of the electronic securities system.

**Article 10. Pre-emptive Rights**

(1) Except as otherwise provided by Paragraphs (2) through (4) of this Article 10 and the mandatory provisions of the applicable laws or regulations, in case of the issuance of new shares, the shareholders of the Company shall have the right to subscribe for such newly issued shares in proportion to the number of shares held by each of them; provided, however, that the Company may, by resolution of the Board of Directors, allocate preferred shares to holders of preferred shares in proportion to the number of shares held by each of them.

(2) The Board of Directors may allocate new shares to persons other than the shareholders by a resolution of the Board of Directors in the following cases. If the Company issues new shares to persons other than the shareholders of the Company pursuant to this Article 10, the Company shall notify the shareholders or make public two (2) weeks in advance of the date of subscription of the new shares detailing the type, number, issue price, date of subscription and the manner of subscription of the newly issued shares in accordance with the Korean Commercial Code.

1. If the Company issues new shares by a public offering or has underwriters underwrite new shares by a public offering in accordance with the applicable legislation;
2. If the Company allocates new shares to the members of the Company's Employee Stock Ownership Association in accordance with the applicable legislation;
3. If the Company issues new shares for the issuance of depositary receipts in accordance with the applicable legislation;
4. If the Company issues new shares through offering to the public investors by the resolutions of the Board of Directors in accordance with the applicable legislation;
5. If the Company issues new shares to the existing creditors in order to convert the debt into capital;
6. If the Company issues new shares to the domestic and/or foreign entities in accordance with a joint venture agreement, strategic affiliation or technology license and transfer agreement executed by and between the Company and such entities for the management purposes; and
7. If the Company issues new shares to the domestic and/or foreign financial institutions in order to finance the Company in the emergent cases.

(3) Any shares unsubscribed after the exercise of pre-emptive rights by shareholders who are entitled to them or any fractional shares remaining after the allocation of new shares may be disposed of by a resolution of the Board of Directors according to the applicable laws or regulations.

(4) Notwithstanding the provisions of Paragraphs (2) through (3) of this Article 10, new shares may be allocated to persons other than the existing shareholders by a special resolution passed at a General Meeting of Shareholders when it is deemed necessary for attaining the purposes of the Company such as introduction of new technology and financial restructuring.

(5) In case the Company issues new shares by a rights offering, bonus issue or stock dividend, such shares will be deemed to have been issued at the end of the fiscal year immediately preceding the fiscal year during which the shares are issued.

**Article 11. Offering to Public Investors, etc.**

(1) The Company may issue new shares constituting not more than ten-hundredths (10/100) of the total issued shares of the Company through offering to public investors by the resolution of the Board of Directors in accordance with applicable legislations.

(2) In event that the Company issues new shares in accordance with the resolution of the Board of Directors due to the reasons set forth in Items 5 through 7 of Paragraph (2) of Article 10, the total face amount of new shares shall not exceed one hundred billion (100,000,000,000) Won.

(3) The type, number and the issue price of the shares to be issued by the manner as set forth in Paragraphs (1) and (2) shall be determined by the resolution of the Board of Directors; provided that the issue price of the new shares must be no less than the price as set forth in applicable legislations.

**Article 12. (Deleted)**

**Article 13. Registration and Alteration of an Entry in the Register of Shareholders**

(1) The Company shall, by resolution of the Board of Directors, appoint an agent to attend to the registration of transfer of shares and bonds and creation of pledges thereon, the indication of trust assets, the re-issuance of share certificates and any other matters relating thereto. Specific procedures therefor shall be in accordance with applicable laws and regulations relating to such matters and the rules the agent may set forth.

(2) Shareholders and registered pledgees who reside in foreign countries shall appoint and report the place where, and an agent to whom, notices will be given in Korea.

**Article 13-2. Register of Shareholders by Electronic Means**

In accordance with the Korean Commercial Code, the Company may make entries in the Register of Shareholders by electronic means.

**Article 14. Fees**

The Company may, by resolution of the Board of Directors, charge, or have the register agent charge, a fee for services it renders in connection with any of the matters set forth in Article 13 above, or for any services related to shareholder inspection of the Company's financial statements or other documents, and for providing any copies thereof.

**Article 15. Record Date and Suspension of Alterations of Entries in the Register of Shareholders**

(1) The Company shall suspend entries of alterations, registration or cancellation of pledges over shares and indication of trust assets and cancellation thereof in the Register of Shareholders of a period commencing on January 1 and ending on January 15 of each year.

(2) The record date of the Register of Shareholders shall be December 31 of each year, and such shareholders listed on the Register of Shareholders as of the record date shall be entitled to exercise their rights thereof at the General Meetings of Shareholders.

(3) The Company may, by resolution of the Board of Directors or by resolution of a committee as authorized by the Board of Directors, suspend the entry of a change as to the matters contained in the Register of Shareholders for a specified period of time or set a record date when deemed necessary and for the purpose of convening an Extraordinary General Meeting of Shareholders; provided, however, that the period of suspension shall not exceed three (3) months and two (2) weeks prior notice of suspension or fixing of a record date has been given to the shareholders. The Board of Directors or such authorized committee may, when deemed necessary, both suspend the entry of a change in the Register of Shareholders and set a record date.

## CHAPTER III. BONDS

### Article 16. Issuance of Bonds

The Company may issue bonds by a resolution of the Board of Directors

### Article 17. Issuance of Convertible Bonds

(1) The Company may issue convertible bonds in the aggregate face amount not exceeding two trillion (2,000,000,000,000) Won to persons other than the shareholders in the following cases:

1. If the Company issues convertible bonds by public offering.
2. If the Company enters into a joint venture agreement, strategic alliance or technical license and transfer agreement, when it is deemed necessary, and issues convertible bonds to any domestic or international corporation accordingly.
3. If the Company issues convertible bonds to a domestic or international financial institution to provide urgently needed funds.

(2) Convertible bonds mentioned in Paragraph (1) may, by resolution of the Board of Directors, be issued with their conversion rights limited to a certain portion of their face amount.

(3) Upon conversion from the aggregate face amount of convertible bonds, common shares may be issued up to one trillion three hundred billion (1,300,000,000,000) Won and preferred shares may be issued up to seven hundred billion (700,000,000,000) Won, and the conversion price, which shall not be less than the par value of the shares, shall be determined by resolution of the Board of Directors at the time of issuance of the convertible bonds.

(4) The conversion period shall be the period commencing from the date of issuance of the convertible bonds and ending on the date immediately preceding the date of redemption of the convertible bonds. The conversion period may be adjusted by a resolution of the Board of Directors; provided, that the conversion period shall in any event fall within the period mentioned above.

(5) The provisions of Article 10, Paragraph (5) shall apply *mutatis mutandis* to the payment of dividends on the shares issued upon conversion and the payment of interest on the convertible bonds.

### Article 17-2. Issuance of Bonds with Warrants

(1) The Company may issue bonds with warrants to persons other than its shareholders to the extent that the aggregate par value of the bonds with warrants do not exceed two trillion (2,000,000,000,000) Won, in case of the events prescribed in Paragraph (1) of Article 17 above.

(2) The amount with respect to which the pre-emptive rights may be exercised shall be determined by resolution of the Board of Directors; provided, that such amount shall not in any event exceed the aggregate face amount of bonds with warrants.

(3) Upon exercise of the warrants, from the aggregate face amount of bonds with warrants, common shares may be issued up to one trillion three hundred billion (1,300,000,000,000) Won and preferred shares may be issued up to seven hundred billion (700,000,000,000) Won, and the issue price, which shall not be less than the face value of the shares, shall be determined by resolution of the Board of Directors at the time of issuance of bonds with warrants.

(4) The period during which the pre-emptive rights may be exercised shall be the period commencing from the date of issuance of bonds with warrants and ending on the date immediately preceding the date of redemption of bonds with warrants. The period during which the pre-emptive rights may be exercised may be adjusted by resolution of the Board of Directors; provided, that such period shall in any event fall within the period mentioned above.

(5) The provisions of Article 10, Paragraph (5) shall apply, *mutatis mutandis*, to the payment of dividends on the new shares issued upon exercise of the pre-emptive rights.

**Article 18. Electronic Registration of Bonds**

When the Company issues the bonds, instead of issuing certificates representing the bonds, the Company may electronically register its bonds on the electronic registrar of a designated electronic registration system by a resolution of the Board of Directors or by the decision of the Representative Director of the Company (in case the Board of Directors delegates an authority to issue the bonds to the Representative Director).

**Article 18-2. Provisions Applicable *mutatis mutandis* to the Issuance of Bonds**

Articles 13 and 14 of these Articles of Incorporation shall apply *mutatis mutandis* to the issuance of bonds.

**CHAPTER IV. GENERAL MEETING OF SHAREHOLDERS**

**Article 19. Convening of General Meeting of Shareholders**

(1) An Ordinary General Meeting of Shareholders shall be held within three (3) months after the end of each fiscal year, and an Extraordinary General Meetings of Shareholders may be convened at any time in compliance with a resolution of the Board of Directors and applicable laws or regulations.

(2) Shareholders may act only with respect to matters set forth in a written notice at a General Meeting of Shareholders.

(3) General Meeting of Shareholders shall be held in Seoul, Korea or at location of the Company's head office.

(4) A General Meeting of Shareholders shall be convened by the Chairman of the Company or by the President or Vice President of the Company acting under the Chairman's authorization.

**Article 20. Notices**

(1) Written notice of each General Meeting of Shareholders of the Company shall state the date, time, venue and the agenda for which the meeting has been called. The written notice shall be delivered to all shareholders by postal mail or by e-mail transmission at least two weeks prior to the date set for such General Meeting of Shareholders.

(2) Written notice of a General Meeting of Shareholders to be given to shareholders holding one-hundredth (1/100) or less of the total number of issued shares entitled to vote may be substituted by notices made at least twice in each of the Seoul Shinmun published in Seoul, the Mael Shinmun published in Daegu Metropolitan City and the Kwangju Ilbo published in Kwangju Metropolitan City two weeks prior to the date set for such Meeting, or by notices to be posted on an electronic disclosure database system maintained by the Financial Supervisory Service or the Korea Exchange two weeks prior to the date set for such General Meeting of Shareholders.

**Article 21. Presiding Officer**

The Chairman and the Representative Director shall preside at the General Meetings of Shareholders. In the absence of the Chairman, the President and the Vice President among Inside Directors shall act as chairman in accordance with their order of authority.

**Article 22. Authority of the Presiding Officer**

The presiding officer at a General Meeting of Shareholders may order any person to cease making any statements or to leave the meeting or that statements made by such person be stricken from the record if the presiding officer determines that such person is deliberately preventing deliberations or is disturbing the order of the proceedings at the meeting. A person so ordered shall comply with the presiding officer's instructions.

**Article 23. Vote by Proxy**

(1) Any shareholder entitled to vote at a General Meeting of Shareholders shall have the right to vote by proxy.

(2) Any shareholder may exercise his vote by proxy. However, the proxy shall submit a document evidencing the power of representation before the opening of the General Meeting of Shareholders. In the case of a corporate entity, any of its officers or directors may be a proxy.

**Article 24. Quorum and Requisite for Resolutions**

(1) Except as otherwise provided in these Articles of Incorporation or by applicable laws or regulations, all resolutions passed at a General Meeting of Shareholders shall be adopted by the affirmative vote of a majority of the voting shares of the shareholders present, which shall represent at least one-fourth (1/4) of the voting shares of the Company then issued and outstanding.

(2) In the following cases, the resolutions of a General Meeting of Shareholders shall be adopted by the affirmative vote of at least two-thirds (2/3) of the voting shares of the shareholders present and by the affirmative vote of at least one-third (1/3) of the voting shares of the total issued and outstanding shares:

1. Amendment of the Articles of Incorporation;
2. Transfer of all or any important part of the business;
3. Execution, amendment or rescission of a contract for leasing the whole of the business, for entrustment of management, or for sharing with another person all profits and losses in relation to the business or of a similar contract;
4. Acquisition of all or part of business of any other company, which may have a great influence upon the business of the Company;
5. Merger or consolidation of the Company (excluding a small scale merger or consolidation);
6. Matters required to be approved by the General Meeting of Shareholders, which have material effects on the company's assets, as determined by the Board of Directors; and
7. Any other matter for which such vote is required by Korean laws and regulations.

**Article 25. Exercise of Voting Right in Writing**

(1) Any shareholder is entitled to exercise its voting rights at a General Meeting of Shareholders in writing without being present at such General Meeting of Shareholders.

(2) In connection with Paragraph (1) above, the Company shall attach the document necessary for the shareholder's exercise of its voting rights in writing and any reference documents to the written notice for convening a General Meeting of Shareholders.

(3) A shareholder, who intends to exercise its voting rights in writing, shall fill in the document referred to in Paragraph (2) above and submit such document to the Company one (1) day prior to the date of the relevant General Meeting of Shareholders.

**Article 26. Minutes of General Meeting of Shareholders**

The substance of the course of the proceedings of a General Meeting of Shareholders and the results thereof shall be recorded in the minutes which shall bear the names and seals or signatures thereon of the presiding officer and of the Directors present at the meeting, and shall be preserved in the archives of the Company.

**CHAPTER V. BOARD OF DIRECTORS**

**Article 27. Number of the Directors**

The total number of Directors of the Company shall be at least three (3) but no more than twelve (12) Directors, among which the Outside Directors shall constitute the majority of the total number of the Directors.

**Article 28. Election of the Directors and Representative Directors**

(1) The Directors shall be elected at the General Meeting of Shareholders.

(2) By resolution of the Board of Directors, a number of Representative Directors may be appointed from among Inside Directors. On recommendation of the Chairman, the Board of Directors may grant an Inside Director the position of President, Executive Vice President, Senior Managing Director and Managing Director.

(3) If Directors are appointed by a cumulative voting, the Inside Directors and the Independent Outside Directors are separately considered, and then, the cumulative voting shall apply to each group.

**Article 29. Appointment of the Chairman and the Representative Director**

(1) By resolution of the Board of Directors, the Chairman and the Representative Director shall be elected from among the Inside Directors after his qualification is approved by the CEO Candidate Recommendation Committee.

(2) In the event a candidate for the position of Inside Director is nominated as the Chairman and the Representative Director candidate and approved by the CEO Candidate Recommendation Committee, the Board of Directors shall recommend the name of one (1) The Chairman and the Representative Director candidate at the General Meetings of Shareholders. Where the Chairman and the Representative Director candidate is appointed as an Inside Director at General Meetings of Shareholders, the Board of Directors shall appoint the Chairman and the Representative Director candidate as the Chairman and the Representative Director.

(3) Details concerning the composition and operation of the CEO Candidate Recommendation Committee shall be determined by the Board of Directors.

**Article 29-2. Recommendation of Inside Director Candidate other than the Chairman and the Representative Director**

A candidate for Inside Director other than the Chairman and the Representative Director shall be recommended by the Board of Directors after his qualification is approved by the Director Candidate Recommendation Committee as prescribed in Paragraph (1) of Article 45.

**Article 29-3. Qualification for Inside Director Candidate**

(1) An Inside Director shall be a person capable of managing the Company, who has working experience as an officer or employee of the Company or sufficient experience in the related business area.

(2) A person (i) who retired prior to the completion of the full term of office due to gross negligence or unsound management, (ii) who was sentenced to imprisonment or a heavier penalty and for whom five years have not passed since the termination thereof or exemption therefrom or (iii) who is serving a suspended sentence or who was sentenced to a stay of execution and for whom two years have not passed since the expiration of the period of stay of execution cannot be an Inside Director of the Company.

### **Article 30. Recommendation of Candidate for Outside Directors**

(1) A candidate for Outside Director shall be recommended by the Director Candidate Recommendation Committee as prescribed in Paragraph (1) of Article 45. Such candidates shall be among those qualified persons as prescribed in Article 31.

(2) A shareholder holding voting shares of the Company may recommend a candidate for Outside Director to the Director Candidate Recommendation Committee by the exercise of the shareholder proposal right under the applicable legislation.

(3) The Director Candidate Recommendation Committee shall determine the details regarding recommendation for, and evaluation on qualification of, candidates for Outside Director.

### **Article 31. Qualification for Candidate for Outside Directors**

An Outside Director must have sufficient and professional knowledge or experience in the areas of industry, finance, education, law, accounting and public administration and also must be qualified under the relevant laws.

### **Article 32. Duties of Representative Director**

(1) Each Representative Director shall represent the Company, execute matters determined by the Board of Directors, control all affairs of the Company and provide all Directors with the updated information regarding the recent status of management and the Company.

(2) The Representative Directors and Directors shall carry on the administration of the affairs of the Company in accordance with the duties assigned to them by the Chairman.

### **Article 33. Duties of Directors**

(1) The Directors, as the prudent manager, shall faithfully perform their duties for the Company such as attending the meeting of the Board of Directors, etc. in accordance with the laws and the Articles of Incorporation.

(2) If a Director finds any matter that may inflict any material loss to the Company, he shall immediately report it to the Audit Committee.

### **Article 34. Term of Directors**

The term of office of the Directors shall be within three (3) years; provided, however, that the term of office for Directors shall be extended until the close of an Ordinary General Meeting of Shareholders which is to be held with respect to the fiscal year which is the last to end during their terms in office.

### **Article 35. By-Election**

(1) In the event of any of the absence or inability to perform the duties as a Director, an Extraordinary General Meeting of Shareholders shall be convened to fill the vacancy. However, in the case the number of remaining Directors satisfies the legal requirement and such vacancy does not cause any difficulties in the operation of the business, the appointment through by-election may be suspended, or postponed until the holding of the next Ordinary General Meeting of Shareholders.

(2) In the event that the number of Outside Directors is less than a majority of total number of Directors due to death or resignation of Outside Directors or for any other reason, Outside Directors shall be elected to fill the vacancy at the General Meeting of Shareholders to be held first after such cause so as for the number of Outside Directors to constitute a majority of total number of Directors.

**Article 36. Remuneration of Directors**

(1) The limit of the salaries and performance incentives of the Directors shall be determined by resolution of the General Meeting of Shareholders. The Board of Directors shall determine the detailed operation standards thereof.

(2) Any severance allowance paid to the Inside Directors shall be in accordance with Severance Allowance Regulations for Directors as approved by shareholders at the General Meeting of Shareholders.

(3) The Company may pay to Outside Directors for expenses incurred during performance of services as required of Outside Directors.

**Article 37. Indemnification of Directors**

The Company shall indemnify, to the extent permitted by the Korean Commercial Code, the Directors from and against all expenses, losses or liabilities incurred in connection with defending any action, claim or proceeding to protect the interest of the Company, except for in case of the Directors' willful misconduct or negligence with respect to their duties.

**Article 38. Authority of the Board of Directors**

(1) The Board of Directors shall have the power to take actions in respect of all such acts and things put on the agenda by any of the Directors relating to important matters regarding the administration of the Company or as are required by laws or regulations or by these Articles of Incorporation.

(2) The Board of Directors may delegate its powers to the Special Committees as prescribed in Paragraph (1) of Article 45 in accordance with the Korean laws and regulations and these Articles of Incorporation.

**Article 39. Constitution and Convocation of Meeting of the Board of Directors**

(1) The Board of Directors shall consist of all the Directors.

(2) The Presiding Director of the Board of Directors may convene all Meetings of the Board of Directors. Any other Director who wishes to convene a Meeting of the Board of Directors shall make his request to the Presiding Director of the Board of Directors and the Presiding Director shall convene the Meeting. If the Presiding Director of the Board of Directors fails to convene the Meeting without justifiable reasons, other Directors may convene such Meeting.

(3) Written or oral notice of each Meeting of the Board of Directors shall be given at least one day prior to the scheduled meeting date to each of the Directors. No notice shall, however, be required for a regular Meeting of the Board of Directors or if all of the Directors consent thereto.

(4) The Board of Directors may allow the Directors to attend, and vote at, the meeting of the Board of Directors by tele-conferencing, instead of attending and voting in person at such meeting. In such case, a Director participating in the Board Meeting by such arrangement shall be considered to be present at the Meeting of the Board of Directors.

**Article 40. Presiding Director of the Board of Directors**

(1) The Presiding Director of the Board of Directors shall be appointed by the resolution of the Board of Directors among Outside Directors.

(2) The term of office of the Presiding Director shall be one (1) year, and the Presiding Director shall not be reappointed to the office.

(3) In the event that the Presiding Director cannot preside at a Meeting of the Board of Directors, Outside Director in order of seniority (if the seniority is the same, the oldest has the priority) shall take his place as presiding Director.

**Article 41. Adoption of Resolutions of the Board of Directors**

(1) The Majority of Directors shall constitute a quorum for a Meeting of the Board of Directors. All actions and resolutions taken at a Meeting of the Board of Directors shall be adopted by the affirmative vote of a majority of the Directors present. Notwithstanding the foregoing, the adoption of a resolution by the Board of Directors with respect to the election of the Chairman and the Representative Director candidate may be separately decided by the Board of Directors whose quorum shall not exceed the affirmative vote of two-thirds (2/3) of all of the Directors.

(2) A Director having a special interest with respect to the resolution shall not exercise his voting right.

**Article 42. Formalities of the Board of Directors**

Directors shall set the agenda for each Meeting and make proposals for resolution thereat. If any Director plans to make proposals at the Meeting of the Board of Directors, he shall submit a written summary thereof to the Presiding Director of the Board of Directors and the Chairman and Representative Director in advance.

**Article 43. Matters of Urgency**

The Chairman and Representative Director may act upon matters of urgency without resolution of the Board of Directors by obtaining prior consent of more than two-thirds (2/3) of other Directors. A Meeting of the Board of Directors for the next term shall be convened to deliberate on and ratify the actions so taken.

**Article 44. Minutes of the Meeting of the Board of Directors**

With respect to the proceedings of the Meetings of the Board of Directors, the minutes should be made. The agenda, the substances of course, and the results of the proceedings of the Meetings of the Board of Directors, the name of objecting director and the reasons of objection shall be recorded in the minutes which shall bear the names and seals or the signatures thereon of the Directors present at the Meeting.

**Article 45. Special Committees**

(1) The Company shall have special committees under the control of the Board of Directors as follows:

1. Director Candidate Recommendation Committee;
2. Evaluation and Compensation Committee;
3. Finance and Operation Committee;
4. Executive Management Committee;
5. Audit Committee; and
6. Related Party Transactions Committee.

(2) Except as otherwise provided by any relevant laws, authority, constitution and operation of the special committee shall be determined by a resolution of the Board of Directors.

(3) Matters regarding composition and duties of the Audit Committee shall be determined in accordance with Chapter VI.

**Article 46. Unregistered Officers**

(1) The Company shall have Unregistered Officers to execute the matters resolved by the Board of Directors and the matters important to the management of the Company.

(2) The Unregistered Officers shall be appointed by the Representative Director and C.E.O.; provided, however, that the appointment of the Unregistered Officers to the important positions that the Board of Directors decides shall require the approval of the Board of Directors.

(3) The Unregistered Officers are President, Senior Executive Vice Presidents, Senior Managing Directors and Managing Directors, and the salaries and performance incentives payable to such Unregistered Officers shall be determined by the Board of Directors or by the Representative Director and C.E.O., to the extent the Representative Director and C.E.O. has been delegated such authority by the Board of Directors. Any severance allowance shall be distributed in accordance with the standards for the President, Senior Executive Vice Presidents, Senior Managing Directors and Managing Directors pursuant to the Directors Severance Allowance Regulations as approved by the General Meeting of Shareholders.

(4) The allocation of work among the Unregistered Officers shall be decided by the Representative Director and C.E.O..

(5) The term of office of the Unregistered Officers shall not be more than two (2) years; provided, however, that the proviso of Article 34 may apply *mutatis mutandis* to the Unregistered Officers.

#### **Article 47. Consultant and Part-time Officer**

The Company may have consultants and part-time officers who will be treated as Officers of the Company if it is required for the business.

### **CHAPTER VI. Audit Committee**

#### **Article 48. Constitution and Appointment of Members of Audit Committee**

(1) The Audit Committee of the Company shall consist of three (3) or more Directors. All of the members shall be elected from among the Outside Directors.

(2) A member of the Audit Committee shall be appointed or dismissed at the General Meeting of Shareholders. When appointing a member of the Audit Committee, a shareholder holding more than three percent (3%) of the Company's issued and outstanding shares shall not be entitled to exercise his voting rights for that excess portion.

(3) In the event that the number of the Audit Committee does not satisfy the requirement referred to in Paragraph (1) due to the death or resignation of members or any other reasons, the members shall be elected to fill the vacancy at the General Meeting of Shareholders to be held first after such cause so as for the number of members to satisfy the requirement referred to in Paragraph (1).

(4) The chairman of the Audit Committee shall be elected by a resolution of the Audit Committee.

#### **Article 49. Duties of Audit Committee**

(1) The Audit Committee shall examine the accounting and financial records of the Company.

(2) The Audit Committee may request to convene an Extraordinary General Meeting of Shareholders by submitting a written request specifying the agenda of the meeting and the reason for the meeting.

(3) If deemed necessary, the Audit Committee may request to convene a Board Meeting by submitting a written request specifying the agenda of a meeting and the reason for a meeting to the Presiding Director.

(4) The Audit Committee may directly convene a Board Meeting if a meeting has not been convened immediately on the request of the Audit Committee in accordance with Paragraph (3) of this Article.

(5) If it is required for management purpose, the Audit Committee may demand a subsidiary to make a report on the business. In such case, if the subsidiary fails to make an immediate report, or it is required to confirm the contents of such report, the Audit Committee may investigate the business and assets of the subsidiary.

(6) The Audit Committee shall prepare an audit report on the Company's financial statements and shall report thereof to the General Meeting of Shareholders.

(7) The Audit Committee shall record the course of the proceedings of their meetings and the results thereof in the minutes and shall record the procedure of the inspection and the results thereof in the inspection book, on which the name and seal of the members shall be affixed or which shall be signed by such members.

(8) The Audit Committee may receive advice from outside professionals when necessary, for which the Company shall cover any expenses therefrom.

#### **Article 50. Quorum and Adoption of Resolutions**

Article 41 shall apply, *mutatis mutandis*, to the quorum and adoption of resolution of the Audit Committee.

#### **Article 51. Appointment of External Auditor**

An External Auditor of the Company pursuant to the Act on External Audit of Stock Companies shall be appointed by the approval of the Audit Committee. The details of the aforesaid appointment shall be reported to the shareholders at the Ordinary General Meeting of Shareholders for the fiscal year during which such appointment was or shall be made known to the shareholders in accordance with relevant laws and regulations.

### **CHAPTER VII. ACCOUNTING**

#### **Article 52. Fiscal Year**

The fiscal year of the Company shall commence on each January 1 and shall end on December 31 of the same year.

#### **Article 53. Submission, Approval and Publication of Financial Statements**

(1) After the end of each fiscal year, the Representative Directors shall prepare and submit, with the Board of Directors' approval therefor, to the Audit Committee at least six (6) weeks before the date set for an Ordinary General Meeting of Shareholders, the following documents with its supplementary schedules:

1. A balance sheet;
2. A profit and loss statement;
3. Documents designated by the Presidential Decree and decided by the Board of Directors;
4. A consolidated financial statement; and
5. A business report for the pertinent fiscal year:

(2) Upon receiving the documents specified under Paragraph (1) above, the Audit Committee shall prepare and submit an auditor's report to the Representative Director one (1) week before the date of each Ordinary General Meeting of Shareholders.

(3) The Representative Directors shall make available for inspection for five (5) years at the head office and copies thereof for three (3) years at branch offices, the documents prescribed under Items 1 through 4 of Paragraph (1) of this Article and the auditor's report of the Company beginning from one (1) week before the date of each Ordinary General Meeting of Shareholders.

(4) The Representative Director shall submit and seek approval of the documents prescribed under Items 1 through 4 of Paragraph (1) of this Article at an Ordinary General Meeting of Shareholders. The Representative Directors shall report a business report to an Ordinary General Meeting of Shareholders.

(5) The Representative Director shall make public the balance sheet, without delay, after an Ordinary General Meeting of Shareholders has approved the documents described in Paragraph (4).

**Article 54. (Deleted)**

**Article 55. Disposition of Retained Earnings**

Retained earnings for any fiscal year shall be disposed in the following order, but it may be appropriated for purposes other than those listed below if approved by a General Meeting of Shareholders:

1. Legal reserves (required to be more than one-tenth of cash dividends paid for the pertinent fiscal year);
2. Other statutory reserves;
3. Dividends to shareholders;
4. Merits bonuses for retiring Directors;
5. Discretionary reserves;
6. Average dividend reserves and other dispositions; and
7. Retained earnings carried forward to next fiscal year.

**Article 56. Dividends**

(1) Dividends may be paid in cash, shares, or any other form of property

(2) In the case of stock dividends, the Company may issue different types of shares to the shareholders by resolution of the General Meeting of Shareholders.

(3) The Company may pay quarterly dividends in cash by a resolution of the Board of Directors each fiscal year. In such case, the record date for the distribution of quarterly dividends shall be the last day of March, June and September. The dividends should be paid within 20 days from the resolution above.

(4) Dividends referred to in Paragraphs (1) and (3) shall be paid to the shareholders and registered pledgees whose names appear in the shareholders' register of the Company as of the last day of each fiscal year or the record date for the distribution of quarterly dividends.

**Article 57. Cancellation of Treasury Stocks**

The Company, by a resolution of the Board of Directors, may repurchase and cancel its outstanding shares following the methods set forth in the applicable laws or regulations.

**ADDENDA (March 11, 2016)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 48th fiscal year.

**ADDENDA (March 16, 2012)**

Article 27 of the Articles of Incorporation shall be effective from the date the Ordinary General Meeting of Shareholders for the 44th fiscal year approves such Article while the other amended Articles shall be effective from April 15, 2012.

**ADDENDA (February 25, 2011)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 43rd fiscal year.

**ADDENDA (February 26, 2010)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 42nd fiscal year.

**ADDENDA (February 27, 2009)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 41st fiscal year.

**ADDENDA (February 23, 2007)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 39th fiscal year.

**ADDENDA (February 24, 2006)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 38th fiscal year.

**ADDENDA (March 12, 2004)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 36th fiscal year.

**ADDENDA (March 14, 2003)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 35th fiscal year.

**ADDENDA (March 15, 2002)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 34th fiscal year.

**ADDENDA (March 16, 2001)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 33rd fiscal year.

**ADDENDA (March 17, 2000)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 32nd fiscal year.

**ADDENDA (March 16, 1999)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 31st fiscal year.

**ADDENDA (August 20, 1998)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Extraordinary General Meeting of Shareholders for the 31st fiscal year.

**ADDENDA (March 17, 1998)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 30th fiscal year.

**ADDENDA (March 14, 1997)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 29th fiscal year.

**ADDENDA (March 15, 1996)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 28th fiscal year.

**ADDENDA (March 15, 1995)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 27th fiscal year.

**ADDENDA (April 15, 1994)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Extraordinary General Meeting of Shareholders for the 27th fiscal year.

**ADDENDA (March 8, 1993)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 25th fiscal year.

**ADDENDA (October 13, 1992)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Extraordinary General Meeting of Shareholders for the 25th fiscal year.

**ADDENDA (March 7, 1992)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 24th fiscal year.

**ADDENDA (March 14, 1991)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 23rd fiscal year.

**ADDENDA (March 6, 1990)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 22nd fiscal year.

**ADDENDA (March 15, 1989)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 21st fiscal year.

**ADDENDA (February 27, 1988)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 20th fiscal year.

**ADDENDA (March 7, 1987)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 19th fiscal year.

**ADDENDA (February 26, 1986)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 18th fiscal year.

**ADDENDA (February 5, 1985)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 17th fiscal year.

**ADDENDA (February 18, 1984)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 16th fiscal year.

**ADDENDA (February 23, 1982)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 14th fiscal year.

**ADDENDA (February 28, 1981)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 13th fiscal year.

**ADDENDA (February 24, 1979)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 11th fiscal year.

**ADDENDA (February 25, 1978)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 10th fiscal year.

**ADDENDA (February 8, 1977)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 9th fiscal year.

**ADDENDA (February 6, 1976)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 8th fiscal year.

**ADDENDA (February 8, 1975)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 7th fiscal year.

**ADDENDA (February 5, 1974)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 6th fiscal year.

**ADDENDA (February 12, 1973)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 5th fiscal year.

**ADDENDA (November 29, 1972)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Extraordinary General Meeting of Shareholders for the 5th fiscal year.

**ADDENDA (February 4, 1972)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 4th fiscal year.

**ADDENDA (November 23, 1971)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Extraordinary General Meeting of Shareholders for the 4th fiscal year.

**ADDENDA (February 6, 1971)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 3rd fiscal year.

**ADDENDA (February 7, 1970)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 2nd fiscal year.

**ADDENDA (June 16, 1969)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Extraordinary General Meeting of Shareholders for the 2nd fiscal year.

**ADDENDA (March 20, 1969)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Extraordinary General Meeting of Shareholders for the 2nd fiscal year.

**ADDENDA (February 20, 1969)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Ordinary General Meeting of Shareholders for the 1st fiscal year.

**ADDENDA (July 10, 1968)**

The amended Articles of Incorporation shall be effective from the date on which they are approved by the resolution at the Extraordinary General Meeting of Shareholders for the 1st fiscal year.

**ADDENDA (March 6, 1968)**

The Articles of Incorporation shall be effective from March 6, 1968.

## LIST OF CONSOLIDATED SUBSIDIARIES

The following is a list of our consolidated subsidiaries as of December 31, 2015.

<u>NAME</u>	<u>JURISDICTION OF INCORPORATION</u>
POSCO ENGINEERING & CONSTRUCTION CO., LTD.	Korea
POSCO Processing&Service	Korea
POSCO COATED & COLOR STEEL Co., Ltd.	Korea
POSCO ICT	Korea
POSCO Research Institute	Korea
POSMATE	Korea
POSCO A&C	Korea
POSCO Capital Co., Ltd.	Korea
eNtoB Corporation	Korea
POSCO CHEMTECH	Korea
POSCO-Terminal Co., Ltd.	Korea
POSCO M-TECH	Korea
POSCO ENERGY CO., LTD.	Korea
POSCO TMC Co., Ltd.	Korea
POSCO NIPPON STEEL RHF JOINT VENTURE CO., Ltd.	Korea
MegaAsset Co., Ltd.	Korea
POSCO Engineering CO., Ltd.	Korea
POSCO AST	Korea
POSHIMETAL Co., Ltd.	Korea
Poscoene	Korea
POSCO Humans	Korea
Mapo Hibroad Parking co., Ltd.	Korea
Steel Processing and Fabricating Center Co., LTD	Korea
BLUE O&M Co., Ltd.	Korea
Busan E&E Co., Ltd.	Korea
POSCO Family Strategy Fund	Korea
Daewoo International Corporation	Korea
POSCO LED Co., Ltd.	Korea
Pohang Scrap Recycling Distribution Center Co., Ltd.	Korea
PSC Energy Global Co., Ltd.	Korea
Suncheon Eco Trans Co., Ltd.	Korea
Tamra Offshore Wind Power Co., Ltd.	Korea
IT Engineering	Korea
Future Creation Fund Postech Early Stage account	Korea
POSCO Green Gas Technology Co., Ltd.	Korea
POSCO WOMAN'S FUND	Korea
POSPower CO., Ltd.	Korea
Songdo Posco family Housing	Korea
Posco Group University	Korea
HOTEL LAONZENA	Korea
Growth Ladder POSCO K-Growth Global Fund	Korea
2015 POSCO New technology II Fund	Korea
POSCO America Corporation	USA
POSCO AUSTRALIA PTY LTD	Australia

<u>NAME</u>	<u>JURISDICTION OF INCORPORATION</u>
POSCO Canada Ltd.	Canada
POSCO Asia Co., Ltd.	China
POSCO-CTPC Co., Ltd.	China
POSCO-JWPC Co., Ltd.	Japan
POSCO E&C Vietnam Co., Ltd.	Vietnam
Zhangjiagang Pohang Stainless Steel Co., Ltd.	China
POSCO (Guangdong) Steel Co., Ltd.	China
POSCO (Thailand) Company Limited	Thailand
Myanmar POSCO Steel Co., Ltd.	Myanmar
POSCO Investment Co., Ltd.	Hong Kong
POSCO-MKPC SDN BHD	Malaysia
Qingdao Pohang Stainless Steel Co., Ltd.	China
POSCO (Suzhou) Automotive Processing Center Co., Ltd.	China
POSEC Hawaii, Inc.	USA
POSCO-China Qingdao Processing Center Co., Ltd.	China
POS-ORE PTY LTD	Australia
POSCO-China Holding Corp.	China
POSCO JAPAN Co., Ltd.	Japan
POS-CD PTY LTD	Australia
POS-GC PTY LTD	Australia
POSCO-India Private Limited	India
POS-India Pune Processing Centre Pvt. Ltd.	India
POSCO-JEPC Co., Ltd.	Japan
POSCO-CFPC Co., Ltd.	China
POSCO E&C CHINA Co., Ltd.	China
POSCO MPPC S.A. de C.V.	Mexico
Zhangjiagang Pohang Port Co., Ltd.	China
Qingdao Pos-metal Co., Ltd.	China
POSCO-VIETNAM Co., Ltd.	Vietnam
POSCO MEXICO S.A. de C.V.	Mexico
POSCO India Delhi Steel Processing Centre Private Limited	India
POSCAN Elkview	Canada
POSCO-Poland Wroclaw Processing Center Sp. z o. o.	Poland
POS-NP PTY LTD	Australia
POSCO-Vietnam Processing Center Co., Ltd.	Vietnam
POSCO(Chongqing) Automotive Processing Center Co, Ltd.	China
SUZHOU POSCO-CORE TECHNOLOGY CO., LTD.	China
POSCO-Malaysia SDN. BHD.	Malaysia
POS-Minerals Corporation	USA
POSCO(Wuhu) Automotive Processing Center Co., Ltd.	China
POSCO Engineering and Construction India Private Limited	India
POSCO E&C SMART S DE RL DE CV	Mexico
POSCO Philippine Manila Processing Center, Inc.	Philippines
POSCO China Suzhou Processing Center Co., Ltd.	China
POSCO Gulf SFC LLC	UAE
Dalian POSCO ICT-DONGFANG Engineering Co., Ltd.	China
SANPU TRADING Co., Ltd.	China
Zhangjiagang BLZ Pohang International Trading	China
POSCO MEXICO HUMAN TECH S.A. de C.V.	Mexico
POSCO MESDC S.A. DE C.V.	Mexico

<u>NAME</u>	<u>JURISDICTION OF INCORPORATION</u>
POSCO-ICT China	China
Pos-Sea Pte Ltd	Singapore
POSCO Europe Steel Distribution Center	Slovenia
POSCO ENGINEERING (THAILAND) CO., Ltd.	Thailand
POSCO VST CO., LTD.	Vietnam
POSCO Maharashtra Steel Private Limited	India
POSCO India Chennai Steel Processing Centre Pvt. Ltd.	India
POSCO TNPC Otomotiv Celik San. Ve Tic. A.S	Turkey
POSCO Vietnam Ha Noi Processing Center Co., Ltd.	Vietnam
POSCO(Liaoning) Automotive Processing Center Co., Ltd.	China
POSCO-Indonesia Jakarta Processing Center	Indonesia
POSCO E&C VENEZUELA C.A.	Venezuela
Motta Resources Indonesia	Indonesia
POSCO TMC INDIA PRIVATE LIMITED	India
POSCO America Alabama Processing Center Co., Ltd.	USA
PT PEN INDONESIA	Indonesia
POSCO(Yantai) Automotive Processing Center Co., Ltd.	China
POSCO India Steel Distribution Center Private Ltd.	India
POSCO China Dalian Plate Processing Center Co., Ltd.	China
POSCO-South Asia Company Limited	Thailand
POSCO SS-VINA	Vietnam
POSCO-NCR Coal Ltd.	Canada
POSCO WA PTY LTD	Australia
POSCO Engineering and Construction – UZ	Uzbekistan
POSCO AUSTRALIA GP PTY LIMITED	Australia
POSCO YongXin Rare Earth Metal Co., Ltd.	China
Hanjung Power Pty., Ltd	Papua New Guinea
Daewoo International (America) Corp.	USA
Daewoo International (Deutschland) GmbH.	Germany
Daewoo International Japan Corp.	Japan
DAEWOO INTERNATIONAL SINGAPORE PTE. LTD.	Singapore
Daewoo Italia S.r.l.	Italy
Daewoo (China) Co., Ltd.	China
DAEWOO TEXTILE FERGANA LLC	Uzbekistan
DAEWOO TEXTILE BUKHARA LLC	Uzbekistan
DAEWOO INTERNATIONAL AUSTRALIA HOLDINGS PTY LTD	Australia
Daewoo Paper Manufacturing Co., Ltd.	China
Tianjin Daewoo Paper Manufacturing Co., Ltd.	China
POSCO MAURITIUS LIMITED	Mauritius
PT. KRAKATAU POSCO	Indonesia
DAEWOO INTERNATIONAL MEXICO S.A. DE C.V.	Mexico
Daewoo International Guangzhou Corp.	China
POSCO (Zhangjiagang) STS Processing Center Co., Ltd.	China
Daewoo International (M) SDN BHD	Malaysia
Daewoo International SHANGHAI CO., LTD.	China
PGSF, L.P.	USA
Xenesys Inc.	Japan
Daewoo International INDIA Private Ltd.	India
PT. POSCO E&C INDONESIA	Indonesia

<u>NAME</u>	<u>JURISDICTION OF INCORPORATION</u>
HUME COAL PTY LTD	Australia
POSCO FOUNDATION	India
EPC EQUITIES LLP	England
SANTOS CMI INC CONSTRUCTION TRADING LLP	England
SANTOS CMI INC. USA	USA
SANTOS CMI ENGENHARIA E CONSTRUÇOES LTDA	Brazil
SANTOS CMI PERU S.A.	Peru
SANTOS CMI CONSTRUCCIONES S.A.	Uruguay
GENTECH INTERNATIONAL INC.	Panama
SANTOS CMI S.A.	Ecuador
SANTOS CMI CONSTRUCCIONES DE CHILE S.A.	Chile
COMPANIA DE AUTOMATIZACION & CONTROL, GENESYS S.A.	Ecuador
POSCO ASSAN TST STEEL INDUSTRY	Turkey
HONG KONG POSCO E&C (CHINA) INVESTMENT Co., Ltd.	Hong Kong
POSCO ENGINEERING & CONSTRUCTION DO BRAZIL LTDA.	Brazil
POSCO Electrical Steel India Private Limited	India
PT. POSCO-Indonesia Inti	Indonesia
POSCO(Dalian) IT Center Development Co., Ltd.	China
Brazil Sao Paulo Steel Processing Center	Brazil
DAESAN (CAMBODIA) Co., Ltd.	Cambodia
PT. POSCO ICT INDONESIA	Indonesia
PT. POSCO M TECH INDONESIA	Indonesia
PT. KRAKATAU POSCO ENERGY	Indonesia
POSCO RUS LLC	Russia
POSCO Thainox Public Company Limited	Thailand
DAEWOO INTERNATIONAL SHANGHAI WAIGAOQIAO CO., LTD.	China
PT. Bio Inti Agrindo	Indonesia
POSCO ENGINEERING AND CONSTRUCTION AUSTRALIA (POSCO E&C AUSTRALIA) PTY LTD	Australia
POSCO-TISCO (JILIN) PROCESSING CENTER Co., Ltd.	China
Hunchun Posco Hyundai International Logistics Complex Development Co., Ltd	China
USA-SRDC	USA
Daewoo International Vietnam Co., Ltd.	Vietnam
PT. Krakatau Posco Chemtech Calcination	Indonesia
POSCO AFRICA (PROPRIETARY) LIMITED	South Africa
EPC INGENIERIA & SERVICIOS DE COSTA RICA SA	Costa Rica
POSCO ICT BRASIL	Brazil
LA-SRDC	USA
DONG FANG JIN HONG	China
POSCO AMERICA COMERCIALIZADORA S DE RL DE CV	Mexico
POSCO(Guangdong) Automotive Steel Co., Ltd.	China
POSCO MAPC SA DE CV	Mexico
POSCO-Mory-Maruyasu PIPE	Japan
PT KRAKATAU BLUE WATER	Indonesia
KRAKATAU POS-CHEM DONG-SUH CHEMICA	Indonesia
Myanmar Daewoo International Corporation	Myanmar
POSCO-Italy Processing Center	Italy
DAEWOO E&P CANADA CORPORATION	Canada
Yingkou Puxiang Trade Co.,Ltd.	China
Myanmar POSCO C&C Company, Limited.	Myanmar

<u>NAME</u>	<u>JURISDICTION OF INCORPORATION</u>
POSCO ICT VIETNAM	Vietnam
Daewoo Global Development. Pte., Ltd	Myanmar
Myanmar POSCO Engineering&Construction Company, Limited.	Myanmar
POSCO COATED STEEL (THAILAND) CO., LTD.	Thailand
Daewoo Power and Infra (PTY) Limited	South Africa
Daewoo Amara Company Limited	Myanmar
POSMATE-CHINA CO., LTD	China
Daewoo Precious Resources Co., Ltd.	Myanmar
POSCO-Mexico Villagran Wire-rod Processing Center	Mexico
SANTOS CMI Guatemala S.A.	Guatemala
POSCO-China Dalian Steel Fabricating Center	China
POSCO-CDPC (POSCO ChengDu Processing Center) Co., Ltd	China
POSCO E&C HOLDINGS CO., Ltd.	Thailand
POSCO E&C (THAILAND) CO., Ltd.	Thailand
DAEWOO POWER PNG Ltd.	Papua New Guinea
POSCO India Ahmedabad Steel Processing Center Pvt. Ltd.	India
COINSA INGENIERIA Y PETROQUIMICA S.R.L	Bolivia
PT. Krakatau Posco Social Enterprise	Indonesia
POSCO Vietnam Holdings Co., LTD.	Vietnam
Ventanas Philippines Construction Inc	Philippines
POSCO E&C Mongolia	Mongolia

**CERTIFICATION**

I, Kwon, Oh-Joon, certify that:

1. I have reviewed this annual report on Form 20-F of POSCO;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
5. The company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: April 28, 2016

/s/ Kwon, Oh-Joon

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Kwon, Oh-Joon  
Chief Executive Officer and  
Representative Director

**CERTIFICATION**

I, Choi, Jeong-Woo, certify that:

1. I have reviewed this annual report on Form 20-F of POSCO;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
5. The company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: April 28, 2016

/s/ Choi, Jeong-Woo

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Choi, Jeong-Woo  
Senior Executive Vice President and  
Chief Financial and Planning Officer

**CERTIFICATION**

**Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002  
(Subsection (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code)**

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsection (a) and (b) of section 1350, chapter 63 of title 18, United States Code), the undersigned officer of POSCO, a corporation organized under the laws of the Republic of Korea (the "Company"), does hereby certify, to such officer's knowledge, that:

The annual report on Form 20-F for the year ended December 31, 2015 (the "Form 20-F") fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in the Form 20-F fairly presents, in all material respects, the financial condition and results of operation of the Company.

/s/ Kwon, Oh-Joon

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Kwon, Oh-Joon  
Chief Executive Officer and  
Representative Director

Date: April 28, 2016

/s/ Choi, Jeong-Woo

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Choi, Jeong-Woo  
Senior Executive Vice President and  
Chief Financial and Planning Officer

Date: April 28, 2016

A signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 has been provided to POSCO and will be retained by POSCO and furnished to the Securities and Exchange Commission or its staff upon request.