POSCO INTERNATIONAL Corporation

Financial statements for the year ended December 31, 2024 with the independent auditor's report



Table of Contents

Independent auditor's report	
Financial statements	Page
Statements of financial position	1
Statements of comprehensive income	2
Statements of changes in equity	3
Statements of cash flows	4
Notes to financial statements	6
Audit opinion on internal control over financial reporting	
Independent auditor's report on internal control over financial reporting	

Report on the Operating Status of Internal Control over Financial Reporting



Ernst & Young Han Young 2-3F, 7-8F, Taeyoung Building, 111, Yeouigongwon-ro, Yeongdeungpo-gu, Seoul 07241 Korea

Tel: +82 2 3787 6600 Fax: + 82 2 783 5890 ey.com/kr

Independent auditor's report

(English translation of a report originally issued in Korean)

The Shareholders and Board of Directors POSCO International Corporation

Opinion

We have audited the financial statements of POSCO International Corporation (referred to as the "Company"), which comprise the statement of financial position as of December 31, 2024, and the statement of comprehensive income, statement of changes in equity and statement of cash flows for the year then ended and the notes to the financial statements, including material accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2024, and its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards as adopted by the Republic of Korea ("KIFRS").

We have audited the Company's internal control over financial reporting ("ICFR") as of December 31, 2024 based on the Conceptual Framework for Design and Operation of ICFR established by the Operating Committee of ICFR in Korea, in accordance with Korean Standards on Auditing ("KSA"), and our report dated March 12, 2025 expressed an unqualified opinion thereon.

Basis for opinion

We conducted our audit in accordance with KSA. Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of our report. We are independent of the Company in accordance with the ethical requirements that are relevant to our audit of the financial statements in the Republic of Korea, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key audit matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon and we do not provide an opinion on these matters. For each matter below, our description of how our audit addressed the matter is provided in that context.

The timing of recognizing revenue

As described in Note 24.1.3 to the financial statements, the sales arising from export transactions and triangular transactions account for 78% of the total sales of the Company. We have identified that the scale of these transactions is significant, and it is highly probable that the period to which the revenue is attributable is incorrect due to the varying timing of revenue recognition based on transaction terms. In this regard, we have identified the timing of recognizing revenue as a significant risk.

In this regard, the key audit procedures we performed are as follows:



- Evaluate the internal control procedures established by the Company related to the timing of revenue recognition.
- Conduct test on the timing of revenue recognition through the review of contracts and shipping documents by sampling transactions occurring before and after the reporting date.

Occurrence of Foreign Sales

The Company operates in the trading business and conducts operations with clients located in various countries around the world. Due to the nature of the transactions, foreign sales (triangular transactions) do not involve direct possession of inventory, and control over the inventory is transferred through the bill of lading. Therefore, we have assessed that there is a high risk of misstatement in the financial statements regarding the occurrence of foreign sales, which we have identified as a significant risk.

In this regard, the key audit procedures we performed are as follows:

- Understand and evaluate the internal controls established by the Company related to the occurrence of foreign sales.
- Obtain key documents (shipping documents) related to foreign sales and review them to confirm the occurrence.
- Corroborate the shipment of inventory by reviewing shipping vessel confirmations or export declaration documents.

Other matters

The financial statements of the Company for the year ended December 31, 2023 were audited by another auditor whose report dated March 12, 2024 expressed unqualified opinion thereon.

Responsibilities of management and those charged with governance for the financial statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with KIFRS, and for such internal control as management determines is necessary to enable the preparation of the financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Company's financial reporting process.

Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not a guarantee that an audit conducted in accordance with KSA will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with KSA, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:



- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partner on the audit resulting in this independent auditor's report is Sang-il Bae.

March 12, 2025

This audit report is effective as of March 12, 2025, the independent auditor's report date. Accordingly, certain material subsequent events or circumstances may have occurred during the period from the date of the independent auditor's report to the time this report is used. Such events and circumstances could significantly affect the accompanying financial statements and may result in modifications to this report.

POSCO INTERNATIONAL Corporation

Financial statements for each of the two years in the period ended December 31, 2024

"The accompanying financial statements, including all footnotes and disclosures, have been prepared by, and are the responsibility of, the Company."

Lee, Kye-in Chief Executive Officer POSCO INTERNATIONAL Corporation

POSCO International Corporation Statements of financial position as of December 31, 2024, and 2023

			Korean wo	n in mill	ions	-	S. dollar in nousands
	Notes	De	c. 31, 2024	De	ec. 31, 2023	De	c. 31, 2024
Assets							
Current assets							
Cash and cash equivalents	4,31,32	\mathbf{N}	457,192	\mathbf{N}	588,745	\$	311,015
Trade and other receivables, net	5,11,31,32		4,040,092		4,135,579		2,748,362
Other current financial assets	6,31,32		61,088		148,302		41,556
Derivative financial assets	20,31		94,316		34,284		64,160
Other current assets	7,19		217,335		196,210		147,847
Inventories, net	8		540,538		572,348		367,713
Assets held for sale	37		135,138		-		91,931
		\mathbf{X}	5,545,699	\mathbf{X}	5,675,468	\$	3,772,584
Non-current assets							
Trade and other receivables, net	5,11,31,32	\mathbf{N}	531,699	\mathbf{N}	284,877	\$	361,700
Other non-current financial assets	6,31,32		49,771		65,833		33,858
Long-term derivative financial assets Investments in associates and	20,31		25,546		4,609		17,378
joint ventures	9		2,850,841		2,732,832		1,939,348
Property, plant and equipment, net	10		1,886,237		1,954,562		1,283,154
Right-of-use assets, net	11		76,188		88,333		51,828
Intangible assets, net	12		1,119,132		1,158,391		761,314
Investment properties, net	13		134,463		137,306		91,471
Net defined benefit assets	17		50,497		41,418		34,352
Deferred tax assets	29		400,593		393,679		272,512
Other non-current assets	7		21,634		27,719		14,717
		\mathbf{i}	7,146,601	\mathbf{i}	6,889,559	\$	4,861,632
Total assets		<u>\</u>	12,692,300	\	12,565,027	\$	8,634,216
Liabilities and equity							
Current liabilities	11 11 01 00	``	0.004.004	、	0 440 500	¢	4 400 470
Trade and other payables	11,14,31,32	\mathbf{X}	2,204,221	\	2,419,532	\$	1,499,470
Borrowings	15,31,32		1,004,869		716,705		683,584
Current portion of bonds	15,31,32		1,117,735		876,709		760,364
Derivative financial liabilities	20,31,32		98,847		55,798		67,243
Current provisions	18,19		93,722		98,068		63,756
Other current liabilities	16		173,016		180,237		117,698
Current tax liabilities			36,562	<u> </u>	56,471		24,872
		<u>\</u>	4,728,972	<u>\</u>	4,403,520	\$	3,216,987
Non-current liabilities	44 44 04 00	``	C0 05 4	``	00 570	¢	40.007
Trade and other payables	11,14,31,32	Υ.	68,954	\	88,576	\$	46,907
Borrowings	15,31,32		492,366		681,624		334,943
Bonds	15,31,32		1,567,097		1,864,114		1,066,052
Other non-current liabilities	16		37,310		37,310		25,381
Provisions	18,19,20		87,184		86,641		59,309
Long-term derivative financial liabilities	20,31,32				8,358	¢	
Total lightlitics		$\overline{}$	2,252,911	$\frac{1}{1}$	2,766,623	\$ ¢	1,532,592
Total liabilities		<u> </u>	6,981,883		7,170,143	\$	4,749,579
Equity							
Issued capital	21	Υ.	879,614	\mathbf{X}	879,614	\$	598,377
Capital surplus	21		1,881,208		1,871,127		1,279,733
Other components of equity Accumulated other comprehensive	21		(25,473)		(12,194)		(17,329)
income (loss)	6,22		(17,808)		(36,931)		(12,114)
Retained earnings	23		2,992,876		2,693,268		2,035,970
Total equity		<u>\</u>	5,710,417	<u>\</u>	5,394,884	\$	3,884,637
Total liabilities and equity		\	12,692,300	<u>\</u>	12,565,027	\$	8,634,216

The accompanying notes are an integral part of the financial statements.

POSCO International Corporation Statements of comprehensive income for each of the two years in the period ended December 31, 2024

			Korean wor	n in mil	lions	-	J.S. dollar in thousands
	Notes		2024		2023		2024
Sales Cost of sales	24 25	\	27,388,739 (26,031,529)	<u>۸</u>	28,536,917 (27,168,265)	\$	18,631,795 (17,708,523)
Gross profit Selling and administrative expenses	25,26	`	1,357,210 (475,693)	`	1,368,652 (417,623)	\$	923,272 (323,601)
Operating profit Finance income Finance costs Other income	27,31 27,31 28	Υ.	881,517 1,439,991 (1,497,365) 34,723	`	951,029 1,336,776 (1,402,053) 33,396	\$	599,671 979,586 (1,018,616) 23,620
Other expenses Profit for the year before tax Income tax expenses	28 29	`	(208,766) 650,100 (139,170)	`	(85,975) 833,173 (200,655)	\$	(142,018) 442,243 (94,673)
Profit for the year		<u>\</u>	510,930	<u>\</u>	632,518	\$	347,570
Other comprehensive income (loss): Other comprehensive income (loss) not to be reclassified to profit or loss in subsequent periods: Loss on valuation of financial assets at fair value through other comprehensive income ("FVOCI")	6,22,29	X	(13,235)	Ň	(3,093)	\$	(9,003)
Re-measurement loss on defined benefit liabilities	17,29		(8,520)	<u>.</u>	(12,323)		(5,796)
Other comprehensive loss for the year, net of tax Total comprehensive income		<u>\</u>	(21,755)	<u>\</u>	(15,416)	\$	(14,799)
for the year, net of tax		<u>\</u>	489,175	<u>\</u>	617,102	\$	332,771
Earnings per share (Korean won and U.S. dollar):							
Basic Diluted	30 30		2,998 2,998		3,939 3,939	\$ \$	2.04 2.04

							Korean	won in millio	ns							S. dollar in nousands
	Issu	ued capital	Car	oital surplus	Hyb	orid bonds		Other ponents of equity	com	cumulated other prehensive ome (loss)		Retained earnings		Total		Total
As of January 1, 2023	~	616,876	<u> </u>	544,003	1	-	~	384	1	(13,107)	~	2,201,244	1	3,349,400	\$	2,278,503
Business combination		262,738		1,327,331		139,571		(28,837)		(20,731)		-		1,680,072		1,142,906
Profit for the year		-		-		-		-		-		632,518		632,519		430,285
Net loss on valuation of financial assets at FVOCI		-		-		-		-		(3,093)		-		(3,093)		(2,104)
Remeasurement of net defined benefit liabilities (assets)		-		-		-	_	-		-		(12,323)	_	(12,323)	_	(8,383)
Total comprehensive income	\	-	\	-	\	-	\ \	-	\	(3,093)	\	620,196	\	617,103	\$	419,798
Compensation expenses associated with stock		-		222		-		16,258		-		-		16,480		11,211
Dividends from hybrid bonds		-		-		-		-		-		(4,816)		(4,816)		(3,276)
Redemption of hybrid bonds		-		(429)		(139,571)		-		-		-		(140,000)		(95,238)
Dividends (dividends per share: \setminus 1,000)		-		-		-		-		-		(123,355)		(123,355)		(83,915)
As of December 31, 2023	\	879,614	\	1,871,127	\	-	\	(12,195)	\	(36,931)	\	2,693,268	\	5,394,884	\$	3,669,989
As of January 1, 2024	~	879,614	~	1,871,127	~	-	~	(12,194)	~	(36,931)	~	2,693,269	~	5,394,884	\$	3,669,989
Profit for the year		-		-		-		-		-		510,930		510,930		347,571
Net loss on valuation of financial assets at FVOCI		-		-		-		-		(13,235)		-		(13,235)		(9,003)
Remeasurement of net defined benefit liabilities (assets)		-		-		-		-		-		(8,520)		(8,520)		(5,796)
Total comprehensive income Reclassification due to disposal of other comprehensive income - Equity instruments	~	-	~	-	`	-	~	-	1	(13,235)	~	502,410	1	489,175	\$	332,772
measured at fair value		-		-		-		-		32,358		(32,358)		-		-
Compensation expenses associated with stock		-		10,081		-		(13,279)		-		-		(3,198)		(2,176)
Dividends (dividends per share: ∖ 1,000)		-		-		-		-		-		(170,444)		(170,444)		(115,948)
As of December 31, 2024	\mathbf{N}	879,614	\mathbf{N}	1,881,208	1	-	\mathbf{N}	(25,473)	\mathbf{N}	(17,808)	<u>\</u>	2,992,876	<u>\</u>	5,710,417	\$	3,884,637

The accompanying notes are an integral part of the financial statements.

POSCO International corporation Statements of cash flows for each of the two years in the period ended December 31, 2024

	Korean won in millions					U.S. dollar in thousands		
		2024		2023		2024		
Operating activities								
Profit for the year	Ν.	510,930	Ν.	632,518	\$	347,571		
Reconciliation of profit for the year to net cash flows								
provided by operating activities:		799,980		695,147	\$	544,204		
Changes in operating assets and liabilities:		(226,088)		(185,681)	\$	(153,801)		
Interest received		40,542		47,175		27,580		
Dividends received		130,968		158,375		89,094		
Interest paid		(179,889)		(177,158)		(122,373)		
Income tax paid		(162,372)		(203,583)		(110,457)		
Net cash flows provided by operating activities	<u>\</u>	914,071	<u>\</u>	966,794	\$	621,818		
Investing activities								
Cash inflows from financing activities								
Decrease in short-term financial instruments	Ν.	371,922	\mathbf{N}	92,949		253,008		
Disposal of investment in subsidiaries and associates		130,687		63,067		88,903		
Disposal of financial assets at FVPL		274		-		186		
Disposal of financial assets at FVOCI		3,761		-		2,559		
Decrease in guarantee deposits		980		1,393		667		
Decrease in long-term guarantee deposits		310		578		211		
Disposal of property, plant and equipment		160		247		109		
Disposal of intangible assets		1,691		1,500		1,150		
Decrease in short-term loans		13,313		3,986		9,056		
Decrease in long-term loans		-		1,462		-		
Decrease in long-term financial instruments		10		3		7		
Decrease in finance lease receivables		19,489		51,836		13,258		
Receipt of government subsidies		16		52		11		
Decrease in other current assets		-		7		-		
Cash inflows due to business combination		-		502,085		-		
Cash outflows from investing activities								
Increase in short-term financial instruments		(278,167)		(45,075)		(189,229)		
Acquisition of investment in subsidiaries and associates		(456,330)		(206,996)		(310,429)		
Increase in long-term other receivables		(247,092)		-		(168,090)		
Increase in guarantee deposits		(2,122)		(1,565)		(1,444)		
Increase in long-term guarantee deposits		(860)		(815)		(585)		
Increase in short-term loans		(17,669)		(1,180)		(12,020)		
Increase in long-term loans		(22,078)		(38,058)		(15,019)		
Increase in long-term financial instruments		(333)		(579)		(227)		
Acquisition of property, plant and equipment		(69,984)		(85,934)		(47,608)		
Acquisition of intangible assets		(113,806)		(138,278)		(77,419)		
Net cash flows used in investing activities	<u>\</u>	(665,828)		200,685	\$	(452,945)		

POSCO International corporation Statements of cash flows (cont'd) for each of the two years in the period ended December 31, 2024

		Korean w	U.S. dollar in thousands				
		2024		2023	2024		
Financing activities							
Cash inflows from financing activities							
Increase in long-term borrowings	Ν.	162,748	\mathbf{N}	2,222		110,713	
Issuance of bonds		701,936		398,613		477,507	
Acquisition and settlement of derivatives		1,936		-		1,317	
Cash outflows from financing activities							
Net decrease in short-term borrowings		(67,156)		(440,980)		(45,684)	
Repayment of current portion of long-term borrowings		(105,291)		(408,694)		(71,627)	
Repayment of long-term borrowings		(125)		(5,245)		(85)	
Redemption of current Portion of bonds		(877,380)		(600,000)		(596,857)	
Redemption of hybrid bonds		-		(140,000)		-	
Dividends paid		(170,444)		(128,810)		(115,948)	
Payment of lease liabilities		(35,914)		(64,904)		(24,431)	
Settlement of derivatives				(324)		-	
Net cash flows used in financing activities	<u> </u>	(389,690)	<u>\</u>	(1,388,122)	\$	(265,095)	
Net decrease in cash and cash equivalents	~	(141,447)	\mathbf{X}	(220,643)	\$	(96,222)	
Cash and cash equivalents as of January 1		588,745		806,960		400,507	
Net foreign exchange difference		9,894		2,428		6,731	
Cash and cash equivalents as of December 31	<u>\</u>	457,192	\	588,745	\$	311,016	

The accompanying notes are an integral part of the financial statements.

1. Company information

POSCO International Corporation (the "Company") was incorporated on December 27, 2000 as a result of a spin-off of the trading segment of Daewoo Corporation.

The Company has listed its shares on the Korea Exchange since March 23, 2001. The Company's issued capital as of December 31, 2024 amounts to $\forall 879,614$ million (\$598,376 thousand). The Company merged with POSCO Energy Co., Ltd. as of January 1, 2023 as the base date for the merger (see Note 35).

The Company engages in various business activities, such as providing international trade, export agency services, intermediary trading, manufacturing, distribution, natural resource development, lease and electric power service. The primary products sold by the Company include various industrial grade steel, metals, chemicals, auto parts, machinery, ships, plants, electronics, special materials, grain and petroleum. In addition, it has and operates an LNG combined thermal power generation facility (with 3,412MW generation capacity) consisting of 13 gas turbines and 7 steam turbines located in Incheon, and operates 6 LNG storage tanks with a storage capacity of 930,000 $k\ell$ at Gwangyang National Industrial Complex.

As of December 31, 2024, POSCO Holdings Inc. is the largest shareholder of the Company, and it has an effective stake of 72.98%.

2. Basis of preparation and summary of material accounting policies

2.1 Basis of preparation

The Company prepares the statutory financial statements in accordance with International Financial Reporting Standards as adopted by the Republic of Korea ("KIFRS") enacted by the *Act on External Audit of Stock Companies.*

The financial statements have been prepared on a historical cost basis, except for derivative financial instruments, debt and equity instruments that have been measured at fair value. The carrying values of assets and liabilities that are designated as hedged items in fair value is not recorded at amortized cost but recorded reflecting changes in the fair values attributable to the risks that are being hedged. The financial statements are presented in Korean won (KRW), and the financial statements are presented in Korean won in millions, except when otherwise indicated.

The accompanying financial statements for each of the two years in the period ended December 31, 2024 have been translated into United States dollars solely for the convenience of the reader. The exchange rate used was the won/dollar exchange rate on December 31, 2024.

2.2 Summary of material accounting policies

2.2.1 Investment in subsidiaries, associates and joint ventures

The Company's financial statements are separate financial statements in accordance with KIFRS 1027, which are financial statements in which the parent company, investors in associates and venturers in joint ventures present their investments based on direct equity investments rather than on the reported performance and net assets of the investees. We account for our investments in subsidiaries, associates and joint ventures in accordance with the cost method in accordance with KIFRS 1027. Dividends from subsidiaries, associates and joint ventures are recognized in profit or loss when the right to receive the dividend is established.

2.2.2 Fair value measurement

The Company measures financial instruments such as derivatives at fair value as of the reporting date. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value measurement is based on the presumption that the transaction to sell the asset or transfer the liability takes place either:

- > in the principal market for the asset or liability, or
- > in the absence of a principal market, in the most advantageous market for the asset or liability

The principal or the most advantageous market must be accessible by the Company.

The fair value of an asset or a liability is measured using the assumptions that market participants would use when pricing the asset or liability, assuming that market participants act in their economic best interest.

A fair value measurement of a non-financial asset takes into account a market participant's ability to generate economic benefits by using the asset in its highest and best use or by selling it to another market participant that would use the asset in its highest and best use.

The Company uses valuation techniques that are appropriate in the circumstances and for which sufficient data are available to measure fair value, maximizing the use of relevant observable inputs and minimizing the use of unobservable inputs.

All assets and liabilities for which fair value is measured or disclosed in the financial statements are categorized within the fair value hierarchy, described as follows, based on the lowest level input that is significant to the fair value measurement:

- Level 1 Quoted (unadjusted) market prices in active markets for identical assets or liabilities;
- Level 2 Valuation techniques for which the lowest level input that is significant to the fair value measurement is directly or indirectly observable; and
- Level 3 Valuation techniques for which the lowest level input that is significant to the fair value measurement is unobservable.

For assets and liabilities that are recognized in the financial statements at fair value on a recurring basis, the Company determines whether transfers have occurred between levels in the hierarchy by re-assessing categorization based on the lowest level input that is significant to the fair value measurement at each reporting date.

For the purpose of fair value disclosures, the Company has determined classes of assets and liabilities on the basis of the nature, characteristics and risks of the asset or liability and the level of the fair value hierarchy.

Fair value related disclosures for financial instruments and non-financial assets that are measured at fair value or where fair values are disclosed, are summarized in the following notes:

	Notes
Valuation methods, significant estimates and assumptions;	2, 6 and 31
Quantitative disclosures of fair value measurement hierarchy;	31
Investment properties; and	13
Financial instruments (including those carried at amortized cost).	6 and 31

2.2.3 Revenue from contracts with customers

Revenue from contracts with customers is recognized when control of the goods or services are transferred to the customer at an amount that reflects the consideration to which the Company expects to be entitled in exchange for those goods or services.

2.2.3.1 Trading sector

(1) Classification and implementation of performance obligations

Performance obligations are identified in certain contracts with respect to (1) the sale of goods, and (2) transport services for the performance of their duties as part of their trade transactions with customers. The Company recognizes the transaction price allocated to these performance obligations as revenue upon completion of each performance obligation by applying the expected cost plus margin approach.

For the transactions of custom-made equipment, if the Company has no alternative use for assets created by fulfilling obligations and the Company has the enforceable right for the payment for the portion completed up to now, the revenue is recognized by the percentage-of-completion methods.

The Company provides guarantees for goods and services that are defective at the time of sale in accordance with the requirements of the law. Assurance type guarantees are accounted for in accordance with KIFRS 1037, *'Contingent Liabilities and Contingent Assets'*. Guarantees of the types of services classified as separate performance obligations are not recognized.

(2) Variable consideration

If the consideration in a contract includes a variable amount, the Company estimates the amount of consideration to which it will be entitled in exchange for transferring the goods to the customer. The variable consideration is estimated at contract inception and is included in the transaction price only to the extent that it is highly probable that a significant revenue reversal in the amount of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is resolved.

In the case of a contract in which a right of return exists, for goods that are expected to be returned, instead of revenue, the Company recognizes it as a refund liability. A right of goods returned and corresponding adjustment to cost of sales are also recognized. If the Company receives short-term advances from its customers, the practical expedient is used, and the Company does not adjust the promised amount of consideration for the effects of a significant financing component if it expects, at contract inception, that the period between the transfer of the promised good or service to the customer and when the customer pays for that good or service will be one year or less.

(3) Judgment on principal versus agent

The Company controls each good or service prior to providing the goods or services to the customer, taking into account the main responsibilities and obligation of fulfilling the commitments in the trade transaction with the customer, and right to determine prices. Therefore, the Company has generally concluded that it is the principal in its revenue arrangements, except for the agency services, in which sales commission is recognized as revenue.

2.2.3.2 Energy sector

The Company is engaged in the business of providing electricity sales, LNG test operation services, storage facility rental, LNG resale, and fuel cell facility manufacturing and maintenance services.

Product distribution contracts in some of the contracts of the energy transaction are not subject to the standard as the counterparties to the contract are not the "customers" as defined in KIFRS 1115. Revenue from gas sales is recognized when the control of goods is transferred.

2.2.3.2 Energy sector (cont'd)

(1) Classification and implementation of performance obligations

In the case of the power generation business, the identified performance obligation is a single performance obligation to provide electricity, and the Company recognizes revenue over the period for the provision of electricity, etc.

In the case of LNG test operation services, the Company identifies the performance obligations of providing LNG loading and unloading services and providing LNG, and recognizes revenue for LNG loading and unloading fees as they arise. For LNG sales, revenue is recognized upon transmission in the case of exports, and upon completion of transmission and unloading in the case of domestic sales.

In the case of leasing LNG storage facilities, performance obligations to provide services such as unloading, storage, and transmission of LNG imported by each customer are identified and over the period during which the service is provided, revenue is recognized for fixed costs based on storage capacity and variable costs based on LNG transmission volume.

Additionally, in the case of LNG resale, a single performance obligation to provide LNG is identified, and revenue is recognized when LNG is provided to the customer.

(2) Variable consideration

The Company estimates variable considerations using an expected value method that it expects to better predict the consideration it will receive and recognizes revenue by including variable considerations in the transaction price only up to an amount that is highly likely not to reverse a significant portion of the cumulative revenue already recognized when the uncertainty associated with variable considerations is resolved later.

2.2.3.3 Others

The Company has a rental division in addition to the divisions described above, and the relevant goods or services are recognized as revenue at the time of transfer of control, and leases are recognized as revenue during the rental period.

2.2.4 Cash and cash equivalents

Cash and cash equivalents in the statement of financial position comprise cash at banks and on hand and short-term deposits with an original maturity of three months or less.

2.2.5 Financial instruments

A financial instrument is any contract that gives rise to a financial asset of one entity and a financial liability or equity instrument of another entity.

2.2.5.1 Financial assets

(1) Initial recognition and measurement

Financial assets are classified, at initial recognition, as subsequently measured at amortized cost, fair value through other comprehensive income (OCI), and fair value through profit or loss.

The classification of financial assets at initial recognition depends on the financial asset's contractual cash flow characteristics and the Company's business model for managing them. With the exception of trade receivables that do not contain a significant financing component or for which the Company has applied the practical expedient, the Company initially measures a financial asset at its fair value plus, in the case of a financial asset not at fair value through profit or loss, transaction costs. Trade receivables that do not contain a significant financing component or for which the practical expedient are measured at the transaction price determined under KIFRS 1115.

Purchases or sales of financial assets that require delivery of assets within a time frame established by regulation or convention in the market place (regular way trades) are recognized on the trade date, i.e., the date that the Company commits to purchase or sell the asset.

(2) Subsequent measurement

For purposes of subsequent measurement, financial assets are classified in four categories:

- financial assets at amortized cost (debt instruments);
- financial assets at fair value through OCI with recycling of cumulative gains and losses (debt instruments);
- financial assets designated at fair value through OCI with no recycling of cumulative gains and losses upon derecognition (equity instruments); and
- financial assets at fair value through profit or loss.

Financial assets at amortized cost (debt instruments)

Financial assets at amortized cost are subsequently measured using the effective interest rate ("EIR") method and are subject to impairment. Gains and losses are recognized in profit or loss when the asset is derecognized, modified or impaired.

2.2.5.1 Financial assets (cont'd)

The Company's financial assets measured at amortized cost include cash and cash equivalents, trade receivables and other financial assets.

Financial assets designated at fair value through OCI (equity instruments)

Upon initial recognition, the Company can elect to classify irrevocably its equity investments as equity instruments designated at fair value through OCI when they meet the definition of equity under KIFRS 1032 *Financial Instruments: Presentation* and are not held for trading.

Gains and losses on these financial assets are never recycled to profit or loss. Dividends are recognized as other income in the statement of profit or loss when the right of payment has been established, except when the Company benefits from such proceeds as a recovery of part of the cost of the financial asset, in which case, such gains are recorded in OCI. Equity instruments designated at fair value through OCI are not subject to impairment assessment.

The Company elected to classify irrevocably its non-listed equity investments under this category.

Financial assets at fair value through profit or loss

Financial assets at fair value through profit or loss include financial assets held for trading and financial assets upon initial recognition designated at fair value through profit or loss or required at fair value. Financial assets are classified as held for trading if they are acquired for the purpose of selling or repurchasing in the near term. Derivatives, including separated embedded derivatives, are also classified as held for trading unless they are designated as effective hedging instruments. Financial assets with cash flows that are not solely payments of principal and interest are classified and measured at fair value through profit or loss, irrespective of the business model. Notwithstanding the criteria for debt instruments to be classified at amortized cost or at fair value through OCI, as described above, debt instruments may be designated at fair value through profit or loss on initial recognition if doing so eliminates, or significantly reduces, an accounting mismatch.

Financial assets at fair value through profit or loss are carried in the statement of financial position at fair value with net changes in fair value recognized in profit or loss.

Derivatives and the listed equity investments that were not elected to classify to financial assets at fair value through OCI are included in this category. Dividends on the listed equity investments are recognized as profit or loss when the right is confirmed.

A derivative embedded in a hybrid contract is separated from the host and accounted for as a separate derivative if: the economic characteristics and risks are not closely related to the host; a separate instrument with the same terms as the embedded derivative would meet the definition of a derivative; and the hybrid contract is not measured at fair value through profit or loss. Embedded derivatives are measured at fair value with changes in fair value recognized in profit or loss. Reassessment only occurs if there is either a change in the terms of the contract that significantly modifies the cash flows or a reclassification of a financial asset out of the fair value through profit or loss category.

A derivative embedded within a hybrid contract containing a financial asset host is not accounted for separately. The financial asset host together with the embedded derivative is required to be classified in its entirety as a financial asset at fair value through profit or loss.

2.2.5.1 Financial assets (cont'd)

(3) Derecognition

A financial asset (or, where applicable, a part of a financial asset or part of a Company of similar financial assets) is primarily derecognized (i.e., removed from the Company's statement of financial position) when:

- > the rights to receive cash flows from the asset have expired; or
- the Company has transferred its rights to receive cash flows from the asset or has assumed an obligation to pay the received cash flows in full without material delay to a third party under a 'pass-through' arrangement; and either (a) the Company has transferred substantially all the risks and rewards of the asset, or (b) the Company has neither transferred nor retained substantially all the risks and rewards of the asset, but has transferred control of the asset.

When the Company has transferred its rights to receive cash flows from an asset or has entered into a passthrough arrangement, it evaluates if, and to what extent, it has retained the risks and rewards of ownership. When it has neither transferred nor retained substantially all of the risks and rewards of the asset, the Company continues to recognize the transferred asset to the extent of its continuing involvement. In that case, the Company also recognizes an associated liability. The transferred asset and the associated liability are measured on a basis that reflects the rights and obligations that the Company has retained.

Continuing involvement that takes the form of a guarantee over the transferred asset is measured at the lower of the original carrying amount of the asset and the maximum amount of consideration that the Company could be required to repay.

(4) Impairment of financial assets

Disclosures related to impairment of financial assets are provided the Notes below:

- Disclosures for significant assumptions;
- > Debt instruments at fair value through OCI; and
- > Trade receivables, including contract assets.

For trade receivables and contract assets, the Company applies a simplified approach in calculating ECLs. Therefore, the Company does not track changes in credit risk, but instead recognizes a loss allowance based on lifetime ECLs at each reporting date. The Company has established a provision matrix that is based on its historical credit loss experience, adjusted for forward-looking factors specific to the debtors and the economic environment.

For debt instruments at fair value through OCI, the Company applies the low credit risk simplification. At every reporting date, the Company evaluates whether the debt instrument is considered to have low credit risk using all reasonable and supportable information that is available without undue cost or effort. In making that evaluation, the Company reassesses the internal credit rating of the debt instrument. In addition, the Company considers that there has been a significant increase in credit risk when contractual payments are more than 30 days past due.

The Company's debt instruments at fair value through OCI comprise solely of quoted bonds that are graded in the top investment category by the credit rating agency and, therefore, are considered to be low credit risk investments. It is the Company's policy to measure ECLs on such instruments on a 12-month basis. However, when there has been a significant increase in credit risk since initial recognition, the allowance will be based on the lifetime ECL. The Company uses the ratings from the credit rating agency both to determine whether the debt instrument has significantly increased in credit risk and to estimate ECLs.

The Company considers a financial asset in default when contractual payments are 90 days past due. However, in certain cases, the Company may also consider a financial asset to be in default when internal or external information indicates that the Company is unlikely to receive the outstanding contractual amounts in full before taking into account any credit enhancements held by the Company. A financial asset is written off when there is no reasonable expectation of recovering the contractual cash flows.

2.2.5.2 Financial liabilities

Financial liabilities are classified, at initial recognition, as financial liabilities at fair value through profit or loss, loans and borrowings, payables, or as derivatives designated as hedging instruments in an effective hedge, as appropriate.

All financial liabilities are recognized initially at fair value and, in the case of loans and borrowings and payables, net of directly attributable transaction costs.

The Company's financial liabilities include trade and other payables, loans and borrowings including bank overdrafts and derivative financial instruments.

2.2.5.3 Offsetting of financial instruments

Financial assets and financial liabilities are offset, and the net amount is reported in the statement of financial position if there is a currently enforceable legal right to offset the recognized amounts and there is an intention to settle on a net basis, to realize the assets and settle the liabilities simultaneously.

2.2.5.4 Derivative financial instruments and hedge accounting

(1) Initial recognition and subsequent measurement

The Company uses derivative financial instruments, such as forward currency contracts, interest rate swaps and forward commodity contracts, to hedge its foreign currency risks, interest rate risks and commodity price risks, respectively. Such derivative financial instruments are initially recognized at fair value on the date on which a derivative contract is entered into and are subsequently remeasured at fair value. Derivatives are carried as financial assets when the fair value is positive and as financial liabilities when the fair value is negative.

For the purpose of hedge accounting, hedges are classified as:

- fair value hedges when hedging the exposure to changes in the fair value of a recognized asset or liability or an unrecognized firm commitment;
- cash flow hedges when hedging the exposure to variability in cash flows that is either attributable to a particular risk associated with a recognized asset or liability or a highly probable forecast transaction or the foreign currency risk in an unrecognized firm commitment; and
- hedges of a net investment in a foreign operation.

(2) Fair value hedges

The change in the fair value of a hedging derivative is recognized in the statement of profit or loss. The change in the fair value of the hedged item attributable to the risk hedged is recorded as part of the carrying value of the hedged item and is also recognized in the statement of profit or loss.

For fair value hedges relating to items carried at amortized cost, any adjustment to carrying value is amortized through profit or loss over the remaining term of the hedge using the EIR method. EIR amortization may begin as soon as an adjustment exists and no later than when the hedged item ceases to be adjusted for changes in its fair value attributable to the risk being hedged.

When an unrecognized firm commitment is designated as a hedged item, the subsequent cumulative change in the fair value of the firm commitment attributable to the hedged risk is recognized as an asset or liability with a corresponding gain or loss recognized in profit and loss.

2.2.5.4 Derivative financial instruments and hedge accounting (cont'd)

(3) Cash flow hedges

The effective portion of the gain or loss on the hedging instrument is recognized in OCI in the cash flow hedge reserve, while any ineffective portion is recognized immediately in the statement of profit or loss. The cash flow hedge reserve is adjusted to the lower of the cumulative gain or loss on the hedging instrument and the cumulative change in fair value of the hedged item.

The Company uses forward currency contracts as hedges of its exposure to foreign currency risk in forecast transactions and firm commitments, as well as forward commodity contracts for its exposure to volatility in the commodity prices. The ineffective portion relating to foreign currency contracts is recognized as other expense and the ineffective portion relating to commodity contracts is recognized in other operating income or expenses.

The Company designates only the spot element of forward contracts as a hedging instrument. The forward element is recognized in OCI and accumulated in a separate component of equity under cost of hedging reserve.

The amounts accumulated in OCI are accounted for, depending on the nature of the underlying hedged transaction. If the hedged transaction subsequently results in the recognition of a non-financial item, the amount accumulated in equity is removed from the separate component of equity and included in the initial cost or other carrying amount of the hedged asset or liability. This is not a reclassification adjustment and will not be recognized in OCI for the period. This also applies where the hedged forecast transaction of a non-financial asset or non-financial liability subsequently becomes a firm commitment for which fair value hedge accounting is applied.

For any other cash flow hedges, the amount accumulated in OCI is reclassified to profit or loss as a reclassification adjustment in the same period or periods during which the hedged cash flows affect profit or loss.

If cash flow hedge accounting is discontinued, the amount that has been accumulated in OCI must remain in accumulated OCI if the hedged future cash flows are still expected to occur. Otherwise, the amount will be immediately reclassified to profit or loss as a reclassification adjustment. After discontinuation, once the hedged cash flow occurs, any amount remaining in accumulated OCI must be accounted for depending on the nature of the underlying transaction as described above.

2.2.6 Inventories

Inventories are valued at the lower of cost and net realizable value. Acquisition costs for each inventory include purchase cost, conversion cost and other costs attributable to bringing the inventory to the location and condition. The unit cost of inventories is determined by the first-in-first-out method (Materials-in-transit) and the weighted average method (Finished goods and Work-in-process).

2.2.7 Non-current assets held for sale

The Company classifies non-current assets held for sale when non-current assets (or disposal Companys) are expected to be mainly recovered through sale transactions or distribution rather than continued use, and when they are immediately available and highly likely to be sold.

2.2.8 Property, plant and equipment

Property, plant and equipment is stated at cost, net of accumulated depreciation and/or accumulated impairment losses, if any. These costs include alternative costs that meet the asset recognition criteria and borrowing costs for long-term construction projects. If a major part of an item of property, plant and equipment needs to be replaced periodically, the Company recognizes that part as an individual asset and depreciates it over its useful life. In addition, if an asset meets the recognition criteria, such as comprehensive inspection costs, it is included in the carrying amount of the property, plant and equipment, and all repair and maintenance costs are reflected in profit or loss when incurred. The present value of the expenditure is included in the acquisition cost of the property, plant and equipment if the estimated cost of removing, dismantling, or restoring the property to its original state after the economic use is terminated meets the recognition criteria of the provisions.

Land among property, plant and equipment is not depreciated, and property, plant and equipment other than land is estimated by individual assets and then depreciated using a straight-line method over the useful life.

	Useful life (years)
Buildings	9 - 50
Machinery	4 - 25
Structures	5 - 40
Vehicles	4 - 5
Tools	4 - 15
Fixtures	4 - 10

Property, plant and equipment is derecognized on disposal (i.e., the date the acquirer obtains control of the asset) or when future economic benefits are not expected through use or disposal. The gain or loss arising from the removal of property, plant and equipment is determined by the difference between the net selling amount and the carrying amount and is recognized in profit or loss when the asset is derecognized.

The depreciation method, residual value, and useful life of property, plant and equipment are reviewed at the end of each fiscal year and are accounted for as a change in accounting estimates if appropriate.

2.2.9 Investment properties

Investment property is measured at the acquisition cost added to the related transaction cost and includes alternative costs that meet the asset recognition criteria when incurred. However, the costs incurred in daily management activities are recognized as expenses when incurred. Subsequent to initial recognition, investment properties are stated at cost, net of accumulated depreciation and/or accumulated impairment losses.

The depreciation method, residual value and useful life of investment properties are the same as for property, plant and equipment.

2.2.10 Leases

2.2.10.1 Company as a lessee

(1) Right-of-use assets

The Company recognizes the right-of-use asset at the inception of the lease (i.e., when the underlying asset is available). The right-of-use assets are measured at cost and the cost model is applied for subsequent measurement.

If ownership of the leased asset transfers to the Company at the end of the lease term or the cost reflects the exercise of a purchase option, depreciation is calculated using the estimated useful life of the asset.

Right-of-use assets are also subject to impairment and are described in the accounting policy for impairment of non-financial assets in Note 2.2.13.

(2) Lease liabilities

At the commencement date of the lease, the Company recognizes lease liabilities measured at the present value of lease payments to be made over the lease term. The lease payments include fixed payments (including in-substance fixed payments) less any lease incentives receivable, variable lease payments that depend on an index or a rate, and amounts expected to be paid under residual value guarantees. The lease payments also include the exercise price of a purchase option reasonably certain to be exercised by the Company and payments of penalties for terminating the lease, if the lease term reflects the Company exercising the option to terminate.

In calculating the present value of lease payments, the Company uses its incremental borrowing rate at the lease commencement date because the interest rate implicit in the lease is not readily determinable.

The Company's lease liabilities are included in the interest-bearing borrowings.

2.2.10.2 Company as a lessor

As a lessor, the Company determines at the inception date whether a lease is a finance lease or an operating lease. To classify a lease, the Company determines whether the lease contract transfers substantially all the risks and rewards of ownership of the underlying asset to the lessee.

In case of operating leases, rental income arising is accounted for on a straight-line basis over the lease terms and is included in revenue in the statement of profit or loss due to its operating nature. Initial direct costs incurred in negotiating and arranging an operating lease are added to the carrying amount of the leased asset and recognized over the lease term on the same basis as rental income. Contingent rents are recognized as revenue in the period in which they are earned.

2.2.11 Intangible assets

Intangible assets acquired separately are measured on initial recognition at cost. The cost of intangible assets acquired in a business combination is their fair value at the date of acquisition. Following initial recognition, intangible assets are carried at cost less any accumulated amortization and accumulated impairment losses. Internally generated intangible assets, excluding development costs, are reflected in profit or loss in the period in which the expenditure is incurred.

Intangible assets are divided into intangible assets with finite useful lives and intangible assets with indefinite useful lives, and intangible assets with finite useful lives are amortized over the relevant useful life and are considered for impairment if an indication of impairment is identified. In addition, the useful life and amortization method is reviewed at least at the end of each fiscal year and is accounted for as a change in accounting estimates if changes are needed due to changes in the expected period of use or changes in the expected pattern of consumption of economic benefits. The amortization cost of an intangible asset is reflected in profit or loss as an expense cost item consistent with the function of intangible asset.

2.2.11 Intangible assets (cont'd)

On the other hand, intangible assets with indefinite useful lives are not amortized but are carrying out impairment testing individually or in the cash-generating unit each year. In addition, whether it is appropriate to apply indefinite useful lives to such intangible assets is reviewed each year and, if not, those are changed to finite useful lives in a forward-looking manner.

An intangible asset is derecognized when it is disposed of (i.e., when the acquirer obtains control of the asset) or when no future economic benefits are expected from use or disposal. The Company shall reflect the profit or loss due to the difference between the net selling amount and the carrying amount when the intangible asset is derecognized in profit or loss at the time of derecognizion.

2.2.12 Exploration and evaluation assets, development assets, and mining rights

2.2.12.1 Exploration and evaluation assets

Exploration and evaluation assets consist of expenditures for topographical and geophysical studies and drilling and appraisal of oil fields. These assets are reclassified into development assets when the reserves are proven successful.

2.2.12.2 Development assets

Development assets consist of expenditures for fields, construction of production facilities, and others. These development assets are reclassified as mining rights at the inception of the commercial production.

2.2.12.3 Mining rights

Mining rights (production fields) consist of expenditure for improving productivity, oil reservoir management for prediction of oil output and production optimization and increasing the return rate from crude oil. Mining rights are amortized using the unit of production method.

2.2.13 Impairment of non-financial assets

The Company assesses, at each reporting date, whether there is an indication that an asset may be impaired. If any indication exists or an annual impairment test of the asset is required, the Company estimates the recoverable amount of the asset.

The value of use is assessed as the present value of the estimate of the expected future cash flows of the asset discounted at a pre-tax discount rate that reflects the time value of the currency and the market's assessment of the risk of the asset. Net fair value takes into consideration the latest transaction price. If no such transaction is identified, the decision is made using the appropriate evaluation model. These calculations use valuation multiples, market prices of listed shares, or other fair value indicators.

Impairment losses are reflected in profit or loss as a cost item consistent with the function of the impaired asset. However, if there is previously recognized revaluation surplus as an asset subject to the revaluation model, the impairment loss is offset with the revaluation surplus with the limit of the previous revaluation amount.

2.2.14 Foreign currency translation

The Company present our financial statements in Korean Won, which is its functional currency and reporting currency.

Monetary assets and liabilities in foreign currencies are translated into the functional currency at the end of the reporting period. The resulting translation differences are reflected in profit or loss for the period.

2.2.14 Foreign currency translation (cont'd)

Meanwhile, non-monetary items denominated in foreign currencies measured at historical cost are recognized by applying the exchange rate on the date of the first transaction, and non-monetary items denominated in foreign currencies measured at fair value are recognized by applying the exchange rate on the date of fair value measurement. Gains and losses arising from the translation of non-monetary items are recognized in other comprehensive income or profit and loss for the period in the same manner as the recognition of gains and losses arising from changes in the fair value of the relevant item.

The date of the transaction for determining the exchange rate to be used on initial recognition of the related asset, expense or income (or part of it) is the date on which we initially recognize the non-monetary asset or non-monetary liability arising from the payment or receipt of advance consideration. If advance payments or advance receipts are made in multiple installments, we will determine the transaction date for each advance payment or advance receipt.

2.2.15 Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of an asset that necessarily takes a substantial period of time to get ready for its intended use or sale are capitalized as part of the cost of the respective assets. All other borrowing costs are expensed in the period they occur. Borrowing costs consist of interest and other costs incurred in relation to the borrowing of interest funds.

2.2.16 Government grants

Income-related grant is recognized as revenue according to systematic standards over the period necessary to respond to the related costs to be compensated with the grant, and asset-related grant is recognized as deferred income and the same amount is recognized as revenue each year for the useful life of the related assets.

When a non-monetary asset is received as a grant, the Company records the asset and grant as nominal amount and recognizes them as revenue in the income statement at a fixed amount over the estimated useful life of the related asset. The benefits of lower interest rates are recognized as additional government grant when loans with lower interest rates or similar support are provided.

2.2.17 Taxes

The Company is determining whether interest and penalties related to income taxes constitute income taxes. If they are income taxes, KIFRS 1012 *Income Taxes* is applied, and if they are not income taxes, KIFRS 1037 *Provisions, Contingent Liabilities and Contingent Assets* is applied.

2.2.18 Provisions and contingent liabilities

2.2.18.1 Provisions related to post-processing (restoration)

A provision related to post-processing is recognized as the acquisition cost of assets related to resource development, if the project is obliged to be restored at the end of the project. Post-processing costs are calculated as the present value of the expected cost to fulfill the obligation using future expected cash flows, and the future expected cash flows are measured at a pre-tax rate that reflects the inherent risks of the relevant post-processing. The estimated cost of post-processing is reviewed and adjusted at each reporting date, and changes in the estimated cost or the discount rate to be applied are either added to or deducted from the cost of the asset.

2.2.18 Provisions and contingent liabilities (cont'd)

2.2.18.2 Onerous contract

If the Company has entered into an onerous contract, the related present obligation is recognized and measured as a provision. Before recognizing a provision for an onerous contract, an impairment loss arising from the asset used to fulfill the onerous contract is recognized first.

An onerous contract is a contract in which the non-avoidable cost of fulfilling the contractual obligations exceeds the economic benefits expected to be received in that contract. The non-avoidable cost is the minimum net cost existing in the contract, which is the lower of the costs required to fulfill the contract and the compensation or penalty to be paid when the contract is not fulfilled.

2.2.19 Greenhouse gas emission rights

2.2.19.1 Greenhouse gas emission rights

Greenhouse gas emission rights consist of emission rights allocated free of charge and purchased emission rights from the government. Emission rights are recognized at cost by adding other costs that are directly related to acquisition and normally incurred to the purchase cost.

The Company holds emission rights for the purpose of fulfilling government submission obligations. Among them, emission rights with a submission date exceeding one year are classified as intangible assets, and emission rights that expire within one year are classified as current assets. Emission rights classified as intangible assets are book value after initial recognition minus the cumulative loss of impairment from cost, and emission rights held to obtain short-term gains from trading are measured at fair value at the end of each reporting period after acquisition, and changes in fair value are recognized as profit or loss.

The greenhouse gas emission rights are derecognized when they cannot be submitted to the government, sold, or used and no longer provide future economic benefits.

2.2.19.2 Emission liabilities

Emission liabilities are current obligations to emit greenhouse gases and submit emissions to the government, and are recognized when resources are likely to be leaked to fulfill the obligation and the amount required to fulfill the obligation can be reliably estimated. They are measured by adding the book value of the credits held for the relevant implementation year to be submitted to the government and the expenditure expected to be required to meet the obligations for emissions exceeding the number of credits held. Emission liabilities are derecognized when they are submitted to the government.

2.2.20 Business combinations under common control

Business combinations under common control are accounted for using the book value method. Assets acquired and liabilities assumed in a business combination are measured at the carrying amount in the financial statements of the top controlling company. In addition, the difference between the consideration transferred and the carrying amount of the net assets acquired is adjusted in capital surplus.

2.3 Material accounting judgments, estimates and assumptions

The preparation of the Company's financial statements requires management to make judgments, estimates and assumptions that affect the reported amounts of revenues, expenses, assets and liabilities, and the disclosure of contingent liabilities, as of the reporting date. However, uncertainty about these assumptions and estimates could result in outcomes that require a material adjustment to the carrying amount of the asset or liability affected in future periods.

Other disclosures relating to the Company's exposure to risks and uncertainties are disclosed in Capital management (Note 32.1) and financial risk management (Note 32.2).

2.3.1 Accounting judgments

In the course of applying the accounting policies of the Company, the management's decisions that had the most significant impact on the amounts recognized in the financial statements are as follows:

2.3.1.1 Calculation of the lease term for contracts with options for extension and termination - accounting as a lessee

The Company determines the lease term as the non-cancellable term of the lease, together with any periods covered by an option to extend the lease if it is reasonably certain to be exercised, or any periods covered by an option to terminate the lease, if it is reasonably certain not to be exercised.

The Company has lease agreements that include the option for extension and termination. The Company applies judgement when assessing whether it is probable whether it will exercise the option to extend or terminate a lease. In other words, all relevant facts and circumstances that create an economic incentive to exercise the extension option or not to exercise the termination option are taken into account. After the commencement date, the Company reassesses the lease term if there is a significant event or change in circumstances that is within its control and affects its ability to exercise or not to exercise the option to renew or to terminate (for example, significant lease improvements or significant customer customization of the leased asset).

The Company includes the renewal period as part of the lease term for the lease of facilities and machinery with a short non-cancellable period (e.g., 3 to 5 years). If alternative assets are not readily available, it has a significant negative effect on production. Therefore, the Company typically exercises the option to extend the lease. The extended term for a lease of facilities and machinery with a longer non-cancellable term (e.g., 10 to 15 years) is not part of the lease term because it is not probably certain that the extension option will be exercised. In addition, the Company generally leases vehicles and transportation equipment for less than 5 years and does not exercise the option for extension, so the option for extension for leases of vehicles and transportation equipment is not included as part of the lease term. Furthermore, the term during which the termination option is applied is included as part of the lease term only if it is probable that it will not be exercised.

2.3.2 Accounting estimates and changes

Other key sources of uncertainty in important assumptions and estimates for the future as of the end of the reporting period that pose significant risks that could lead to significant adjustments to the carrying amounts of assets and liabilities within the following fiscal year are as follows. Assumptions and estimates are based on available variables at the time of preparation of financial statement. Assumptions on present and future conditions may change due to changes in the market or any conditions out of the control of the Company. When such changes occur, they are reflected in the assumption.

2.3.2.1 Impairment of non-financial assets

The Company assesses at each reporting date whether there is any indication that non-financial assets may be impaired. For goodwill and indefinite-lived intangibles, an impairment test is performed annually or if there is any indication of impairment. For other non-financial assets, an impairment test is performed when there is any indication that the carrying amount will not be recoverable. To calculate the value in use, the management shall estimate the expected future cash flows from the asset or the cash-generating unit and select an appropriate discount rate to calculate the present value of the expected cash flows.

2.3.2.2 Provision for expected credit losses of trade receivables and contract assets

The Company uses a provision matrix to calculate expected credit losses (ECL) for trade receivables and contract assets. The provision setting rate is based on the number of overdue days for a bundle of different customer segments (e.g., regional location, product type, customer type and credit rating, collateral or transaction credit insurance) with similar loss patterns.

The provision matrix is based on the Company's historical observed default rates. The Company will calibrate the matrix to adjust the historical credit loss experience with forward-looking information. For instance, if forecast economic conditions (i.e., gross domestic product) are expected to deteriorate in the future which can lead to an increased number of defaults in the manufacturing sector, the historical default rates are adjusted. At every reporting date, the historical observed default rates are updated and changes in the forward-looking estimates are analyzed.

The assessment of the correlation between historical observed default rates, forecast economic conditions and ECLs is a significant estimate. The amount of ECLs is sensitive to changes in circumstances and of forecast economic conditions. The Company's historical credit loss experience and forecast of economic conditions is not representative of customer's actual default in the future.

2.3.2.3 Pension benefits

The cost and present value of the defined benefit obligation is determined using actuarial valuations. An actuarial valuation involves making various assumptions. It includes the determination of the discount rate, future salary growth rate, mortality rate and future pension increase rate. Due to the complexity of the valuation, the underlying assumptions and its long-term nature, a defined benefit obligation is highly sensitive to changes in these assumptions. All assumptions are reviewed at each reporting date.

2.3.2.4 Fair value of financial instruments

Where the fair value of financial assets and financial liabilities recorded in the statement of financial position cannot be derived from active markets, they are determined using valuation techniques including the discounted cash flow (DCF) model. The inputs to these models are taken from observable markets where possible, but where this is not feasible, a degree of judgment is required in establishing fair values. The judgments include considerations of inputs such as liquidity risk, credit risk and volatility. Changes in assumptions about these factors could affect the reported fair value of financial instruments.

2.3.2.5 Provisions for restoration

The Company accounts for the provisions for restoration related to resource development. This provision was calculated by applying the cost of removal and discount rates of resource development facilities based on management assumptions and estimates.

2.3.2.6 Lease - Calculation of the incremental borrowing interest rate

The Company cannot readily determine the implicit interest rate of the lease, so it uses the incremental borrowing rate to measure the lease liability. The incremental borrowing interest rate is the interest rate that the Company would have to pay to borrow the funds required to acquire assets of similar value to those of right-of-use assets with similar collateral over a similar period of time in a similar economic environment. Thus, the incremental borrowing interest rate available (for subsidiaries that do not enter into financing transactions) or when the incremental borrowing interest rate must be adjusted to reflect the lease conditions (for example, if the lease is not in a functional currency of the subsidiary).

The Company shall, if possible, estimate the incremental borrowing interest rate using observable inputs (such as market interest rates) when available and make certain entity-specific estimates (such as the subsidiary's stand-alone credit rating).

2.4. New and amended standards adopted by the Company

Except for the application of new and revised standards that are first applicable from January 1, 2024, as described below, the Company applies the same accounting policies to its financial statements for the current and comparative periods.

2.4.1 Amendments to KIFRS 1116 - Lease Liability in a Sale and Leaseback

The amendments to KIFRS 1116 specify the requirements that a seller-lessee uses in measuring the lease liability arising in a sale and leaseback transaction, to ensure the seller-lessee does not recognize any amount of the gain or loss that relates to the right of use it retains.

The amendments had no material impact on the Company's financial statements.

2.4.2 Amendments to KIFRS 1001 - Classification of Liabilities as Current or Non-current

The amendments to KIFRS 1001 specify the requirements for classifying liabilities as current or non-current. The amendments clarify:

- > what is meant by a right to defer settlement;
- > that a right to defer must exist at the end of the reporting period;
- > that classification is unaffected by the likelihood that an entity will exercise its deferral right; and
- that terms of a liability that could result in its settlement by the transfer of the entity's own equity instruments do not affect its classification as current or non-current if the entity classifies the option as an equity instrument, recognizing it separately from the liability as an equity component of a compound financial instrument.

In addition, an entity is required to disclose when a liability arising from a loan agreement is classified as noncurrent and the entity's right to defer settlement is contingent on compliance with future covenants within twelve months.

The amendments had no material impact on the Company's financial statements.

2.4.3 Amendments to KIFRS 1007 and KIFRS 1107 - Supplier Finance Arrangements

The amendments to KIFRS 1007 *Statement of Cash Flows* and KIFRS 1107 *Financial Instruments: Disclosures* clarify the characteristics of supplier finance arrangements and require additional disclosure of such arrangements. The disclosure requirements in the amendments are intended to assist users of financial statements in understanding the effects of supplier finance arrangements on an entity's liabilities, cash flows and exposure to liquidity risk.

As a result of implementing the amendments, the Company has provided additional disclosures about its supplier finance arrangement. Please refer to Note 20.

2.5. New and amended standards not yet adopted by the Company

The amended accounting standards that have been issued but not yet effective for the annual reporting period commencing on January 1, 2024 which have not been early adopted by the Company are as follows. The Company did not early apply the following new or revised standards when preparing financial statements.

2.5.1 Amendments to KIFRS 1021 - Lack of exchangeability

The amendments to KIFRS 1021 *The Effects of Changes in Foreign Exchange Rates* specify how an entity should assess whether a currency is exchangeable and how it should determine a spot exchange rate when exchangeability is lacking. The amendments also require disclosure of information that enables users of its financial statements to understand how the currency not being exchangeable into the other currency affects, or is expected to affect, the entity's financial performance, financial position and cash flows.

The amendments will be effective for annual reporting periods beginning on or after January 1, 2025. Early adoption is permitted, but will need to be disclosed. When applying the amendments, an entity doesn't restate comparative information.

The amendments are not expected to have a material impact on the Company's financial statements.

2.5.2 Amendments to KIFRS 1109 and KIFRS 1107– Classification and Measurement of Financial Instruments

The amendments to KIFRS 1109 *Financial Instruments* and KIFRS 1107 *Financial Instruments: Disclosures – Classification and Measurement of Financial Instruments* include the following:

- clarifying that a financial liability is derecognized on the settlement date and introducing an accounting policy choice to derecognize financial liabilities that are settled by using electronic payment system before the settlement date (if specific criteria are met);
- providing additional guidance as to how to assess contractual cash flows of financial assets that include environmental, social and governance (ESG)-linked features and similar features;
- clarifying what constitutes non-recourse features and the characteristics of contractually linked financial instruments; and
- introducing new disclosures for financial instruments with contingent features and adding a disclosure requirement for equity instruments measured at fair value through other comprehensive income.

The amendments will be effective for annual periods beginning on or after January 1, 2026, and are not expected to have a material impact on the financial statements.

2.5.3 Annual Improvements to KIFRS - Volume 11

Annual Improvements to KIFRS - Volume 11 have been announced for the purpose of improving consistency of requirements set out in each standard, enhancing clarity, and providing better understanding of the amendments.

- Amendments to KIFRS 1101 First-time adoption of KIFRS: Hedge accounting by a first-time adopter
- Amendments to KIFRS 1107 Financial Instruments: Disclosures: Gain or loss on derecognition, Guidance for application of amendments in practice
- Amendments to KIFRS 1109 Financial Instruments: Accounting for derecognition of lease liabilities and definition of transaction prices
- > Amendments to KIFRS 1110 Consolidated Financial Statements: Determination of a 'de facto agent'
- Amendments to KIFRS 1007 Statement of Cash Flows: Cost Method

The amendments will be effective for annual periods beginning on or after January 1, 2026. Earlier adoption is permitted, but will need to be disclosed. The amendments are not expected to have a material impact on the financial statements.

2.6 Approval of financial statements

The Company's financial statements were approved by the Board of Directors dated February 3, 2025, and will be finalized at the general shareholders' meeting on March 24, 2025.

3. Segment information

In accordance with KIFRS 1108 *Operating Segments*, disclosures related to operating segments have been prepared in the consolidated financial statements

4. Cash and cash equivalents

4.1 The Company's cash and cash equivalents are managed in the same amount in the statements of financial position and cash flows. Details of cash and cash equivalents as of December 31, 2024 and 2023 are as follows:

		Korean wor			th	6. dollar in ousands
	Dec. 31, 2024			. 31, 2023	Dec. 31, 202	
Cash	\mathbf{N}	160	\mathbf{X}	329	\$	109
Savings account and checking account		300,818		530,669		204,638
Other cash equivalents		156,214		57,747		106,268
Total	\mathbf{N}	457,192	\mathbf{N}	588,745	\$	311,015

4.2 Restricted deposits

As of December 31, 2024 and 2023, the Company holds $\$ 36,882 million (\$25,090 thousand) and $\$ 57,201 million (\$38,912 thousand), respectively, in cash and cash equivalents that are restricted in use due to financial agreements, collateral provisions and others.

5. Trade and other receivables

5.1 Details of trade and other receivables as of December 31, 2024 and 2023 are as follows:

		Dec. 31, 2024				Dec. 31, 2023			
		Current	No	Non-current		Current		n-current	
Trade receivables Allowance for doubtful		3,773,952	Υ.	9,196	\	3,875,187	\	20,489	
accounts		(13,912)		(6,912)		(44,783)		(16,700)	
Other receivables Allowance for doubtful		194,054		395,201		196,403		111,418	
accounts		(4,782)		(159,085)		(11,192)		(92,392)	
Accrued income Allowance for doubtful		61,308		-		70,082		-	
accounts		(80)		-		(3,349)		-	
Guarantee deposits		7,171		12,103		15,655		11,855	
Loans Allowance for doubtful		4,893		237,256		14,300		184,075	
accounts		-		(23,885)		-		(3,610)	
Finance lease receivables		17,488		67,825		23,276		69,741	
	\mathbf{N}	4,040,092	1	531,699	\mathbf{N}	4,135,579	\mathbf{N}	284,876	
U.S. dollar in thousands	\$	2,748,362	\$	361,700	\$	2,813,319	\$	193,793	

5.2 Changes in allowances for doubtful accounts related to trade receivables for each of the two years in the period ended December 31, 2024 are as follows:

	Korean won in millions					6. dollar in ousands	
		2024		2023	2024		
Beginning balance	\mathbf{X}	61,483	\mathbf{X}	67,100	\$	41,825	
Increase due to business combination		-		31,960		-	
Reversal of allowance for doubtful accounts		(15,412)		(37,554)		(10,484)	
Write-off		(25,291)		-		(17,205)	
Foreign exchange translation loss		44		73		30	
Others		-		(96)		-	
Ending balance		20,824	\mathbf{N}	61,483	\$	14,166	

5.3 Financial assets transferred but not derecognized

As of December 31, 2024 and 2023, the Company continues to recognize the book value of discounted trade receivables amounting to $\503,343$ million (\$342,410 thousand) and $\457,817$ million (\$311,440 thousand), respectively, and cash received through discounts was recognized as collateral borrowing.

The Company transferred the above trade receivables on the condition that the transferee has the right of recourse, and therefore continues to bear credit risks such as default by the debtor arising from ownership of the trade receivables even after the transfer. The fair values of the above receivables transferred and the related borrowings are not significantly different from their book values.

6. Other financial assets

6.1 Details of other current financial assets as of December 31, 2024 and 2023 are as follows:

			. dollar in ousands			
	D	Dec	:. 31, 2023	Dec	. 31, 2024	
Financial assets at FVPL (*1)	\	55,212	\mathbf{X}	134,915	\$	37,559
Deposits in financial institutions		5,876		13,387		3,997
Total	\mathbf{N}	61,088	\mathbf{N}	148,302	\$	41,556

(*1) The Company classifies assets with maturities exceeding three months among its other financial assets, including MMW, as financial assets at FVPL.

6.2 Details of other non-current financial assets as of December 31, 2024 and 2023 are as follows:

		Korean wor	n in mil	lions		U.S. dollar in thousands		
		. 31, 2024	Dec	. 31, 2023	Dec. 31, 2024			
Financial assets at FVOCI (equity instruments)	\mathbf{X}	37,270	\mathbf{X}	48,524	\$	25,354		
Financial assets at FVPL (long-term investment)		310		610		211		
Financial assets at FVPL (other securities)		-		4,832		-		
Deposits in financial institutions		12,191		11,867		8,293		
Total	<u>\</u>	49,771	<u>\</u>	65,833	\$	33,858		

6.2.1 Financial instruments at fair value

Details of financial instruments measured at fair value as of December 31, 2024 and 2023 are as follows:

				Korean wo	n in million		U.S. Dollar in thousands	
					Dec. 31, 2023	Dec. 31, 2024		
	Number of shares	Equity owner- ship (%)	owner- ship	Acquisition cost	Dec. 31, 2024 Fair value or net asset value	book value	book value	book value
Financial assets at FVOCI (equity securities)								
Marketable securities								
Maruichi Steel Tube Ltd.	120,000	0.14	∖ 2,933	\ 3,930	\ 3,930	\ 4,018	\$ 2,673	
Kumho Petro Chemical Co., Ltd.	37,000	0.13	8,063	3,352	3,352	4,917	2,280	
Northwest Copper Corp. (*1)	-	0	-	-	-	3,041	-	
FuelCell Energy, Inc. (*1)	-	0				132		
			\ 10,996	\ 7,282	∖ 7,282	\ 12,108	\$ 4,953	
Non-marketable securities								
Daewoo Songdo development (*1)	-	-	-	-	-	-	-	
Zyle Daewoo Motor Sales Corp. (*1)	-	-	-	-	-	3	-	
DW Development Co., Ltd Engineering & Construction (Common Share) (*1)	-	-	-	-	-	2	-	
DW Development Co., Ltd Engineering & Construction (Preferred Share) (*1)	-	-		-	-	-	-	
N.I. CO., LTD. (*1)	-	-	-	-	-	-	-	
The Korea Economic Daily	178,881	0.96	1,952	974	974	974	663	
Hanmi ADM Co., Ltd.	10,000	12.57	1,000	1,000	1,000	1,000	680	
S&S INC	8,149	0.17	113	113	113	113	77	
POSCO Humans Co., Ltd. (*1)	-	-	-	-	-	630	-	
Innovated Technology Inc. (*1)	-	-	-	-	-	-	-	
BioaApplications Inc. (*2)	450,000	4.44	4,950	1,575	1,575	4,950	1,071	
Dowon SF (*1)	-	-	-	-	-	-	-	
FOSTEC (*1)	-	-	-	-	-	-	-	
Hangang Steel (*1)	-	-	-	-	-	-	-	
CJ PHILIPPINES, INC.	109,200	10.00	349	349	349	349	237	
DONGJIN VIETNAM Co., Ltd	20,000	10.00	803	803	803	803	546	
POSCO ASSAN TST STEEL INDUSTRY A.S.								
(*2)	24,096,526	10.00	15,460	-	-	11,951	-	
TES MI s.r.o.	750	3.00	523	523	523	523	356	
Kiho Co., Ltd.	200	10.00	377	377	377	377	256	
K. K. KOREA KAMCHATKA CO., LTD.	328	10.00	-	-	-	-	-	
KNOC INAM LTD.	10	10.00	-	-	-	-	-	
POSCO VIETNAM PC	1,924,551	2.70	735	735	735	735	500	
Erae AMS Co., Ltd.	1,984,938	12.67	20,163	14,006	14,006	14,006	9,528	
HARDT (*3)	10,865	6.59	9,533	9,533	9,533		6,485	
			∖ 55,958	> 29,988	> 29,988	> 36,416	\$ 20,399	
Financial assets at FVPL (other securities)						4 000		
Convertible bonds of HARDT (*3)	-	-	-			4,832	-	
			<u> </u>	<u> </u>	\ -	\ 4,832	\$ -	
Financial assets at FVPL (investments) POSCO Agricultural Products Export Fund (*4)	-		\ -	\ -	\ -	\ 300	\$-	
			•		•	. 000	Ψ -	
Korea Finance for Construction	45	-	40	40	40	40	27	
Posco Community Credit Cooperative	10,800	8.24	270	270	270	270	184	
			 ∖ 310 	 ∖ 310 	 ∖ 310 	∖ 610	\$ 211	
			67,264	> 37,580	> 37,580	\$ 53,966	\$ 25,563	
							,,. 30	

(*1) The financial instruments were disposed of or written off for the year ended December 31, 2024.

(*2) The Company recognized the decrease in fair value of the financial instruments as other comprehensive income for the year ended December 31, 2024.

(*3) The financial instrument was converted to preferred stock for the year ended December 31, 2024.

(*4) For the year ended December 31, 2024, it was liquidated.

6.2.1 Financial instruments at fair value (cont'd)

Among the above financial assets at FVOCI, shares in Maruichi Steel Pipe Ltd. and Kumho Petro Chemical Co., Ltd. which are listed stocks among financial assets at FVOCI, were valued at their closing prices as of December 31, 2024. As a result, \setminus 407 million (\$276 thousand), which was calculated by deducting the deferred tax effect of \setminus 405 million(\$275 thousand) and deducting the effect of the average tax rate change of \setminus 2 million (\$1.36 thousand) from the valuation loss of \setminus 1,654 million (\$1,125 thousand), was reflected in accumulated other comprehensive income.

6.3 Restricted deposits

As of December 31, 2024 and 2023, the Company has deposits of $\ 12,190$ million (\$8,293 thousand) and $\ 15,656$ million (\$10,650 thousand), respectively, in financial institutions that were restricted in use due to financial arrangements, collateral provisions and others.

7. Other assets

Details of other assets as of December 31, 2024 and 2023 are as follows:

		Dec. 31	, 2024		Dec. 31, 2023						
	C	Current	Nor	n-current	C	Current	Non-current				
Advanced payments		82,520	\mathbf{X}	21,396	\mathbf{N}	97,537	\mathbf{X}	22,278			
Prepaid expenses		134,525		209		92,468		5,355			
Emission rights		-		-		5,923		-			
Others		290	_	29		282	_	86			
	\mathbf{N}	217,335	\mathbf{N}	21,634	\mathbf{N}	196,210	\mathbf{N}	27,719			
U.S. dollar in thousands	\$	147,847	\$	14,717	\$	133,476	\$	18,856			

8. Inventories

Details of inventories as of December 31, 2024 and 2023 are as follows:

		Korean wor		6. dollar in ousands		
	Dec	Dec. 31, 2024			Dec	c. 31, 2024
Merchandise	\ \	311,720		427,860	\$	212,054
Valuation allowance		-		(688)		-
Finished goods		20,658		5,485		14,053
Raw materials		128,915		113,885		87,697
Valuation allowance		(6,060)		(6,694)		(4,122)
Supplies		3,153		2,385		2,145
Materials-in-transit		82,152		30,115		55,886
	\mathbf{N}	540,538	\mathbf{N}	572,348	\$	367,713

The Company recognized loss on valuation of inventories in cost of sales of $\ 2,530$ million (\$1,721 thousand) and $\ 1,051$ million (\$715 thousand) for each of the two years in the period ended December 31, 2024, respectively. In addition, the Company recognized reversal of loss on valuation of inventories in cost of sales of $\ 1,322$ million (\$899 thousand) and $\ 13,613$ million (\$9,261 thousand) for each of the two years in the period ended December 31, 2024, respectively.

9. Investments in subsidiaries, associates and joint venture

9.1 Details of investments in subsidiaries, associates and joint venture as of December 31, 2024 and 2023 are as follows: (Korean won in millions)

		/		2024			
	Beelestee				Equity		
	Beginning balance	Acquisition	Transfer	Impairment	Disposal	Ending balance	owner-
<subsidiaries></subsidiaries>	Dalarios	Acquisition	Transfer	impairment	Diepoeal	Ending balance	ship (%)
POSCO INTERNATIONAL AMERICA CORP.	₩ 29.590	₩ -	¥ .	w .	₩ .	₩ 29.590	100
POSCO INTERNATIONAL DEUTSCHLAND GMBH	9,724					9,724	100
POSCO INTERNATIONAL JAPAN CORP.	104,382	-		-	-	104,382	100
POSCO INTERNATIONAL SINGAPORE PTE. LTD.	3,711	-	-	-	-	3,711	100
POSCO INTERNATIONAL ITALIA S.R.L.	3,621	-	-	-	-	3,621	100
POSCO INTERNATIONAL (CHINA) CO., LTD.	20,979	-	-	-	-	20,979	100
POSCO INTERNATIONAL MYANMAR							
CORPORATION LIMITED	668	-			-	668	100
POSCO INTERNATIONAL MEXICO S.A. DE C.V. POSCO INTERNATIONAL MALAYSIA SDN. BHD.	2,905 2,192	-			-	2,905 2,192	100
POSCO INTERNATIONAL SHANGHAI CO., LTD.	8,807					8,807	100
POSCO INTERNATIONAL INDIA PVT. LTD.	-	-			-	-	100
POSCO INTERNATIONAL VIETNAM CO., LTD.	4,613					4,613	100
POSCO INTERNATIONAL TEXTILE LLC.	24,808	-			-	24,808	100
POSCO INTERNATIONAL AUSTRALIA HOLDINGS							
PTY. LTD.	57,153	-	-	-	-	57,153	100
POSCO INTERNATIONAL (THAILAND) CO., LTD.	5,785	-	-	-	-	5,785	100
PT POSCO INTERNATIONAL INDONESIA	9,314	-	-	-	-	9,314	99
AGPA PTE. LTD.	58,481	-	-		-	58,481	100
PLAAPC CORPORATION	5,027	-	-	-	-	5,027	100
BRASIL SAO PAULO STEEL PROCESSING CENTER	-	-	-			-	51
POSCO INTERNATIONAL POWER (PNGLAE) LTD. (*6)	14,686	-	-		(14,686)	-	-
GOLDEN LACE POSCO INTERNATIONAL CO., LTD.	-	-			-		60
POSCO INTERNATIONAL UKRAINE LLC. GRAIN TERMINAL HOLDING PTE. LTD.	-	-			-		100
POSCO SOUTH EAST ASIA PTE, LTD.	-	-	-	-	-	-	100
POSCO SUDTH EAST ASIA PTE, LTD. POSCO INTERNATIONAL GLOBAL DEVELOPMENT	-	-		-	-	-	100
POSCO INTERNATIONAL GLOBAL DEVELOPMENT	924			(924)			75
POHANG SRDC CO., LTD.	4,550	-		(-	4,550	51
POSCO INTERNATIONAL INDIA E-MOBILITY PVT.,							
LTD. (*8)	861	-	-		-	861	73.6
POSCO MOBILITY SOLUTION CO., LTD.	548,663	-	-	-	-	548,663	100
SUZHOU POSCO-CORE TECHNOLOGY CO., LTD.	45,746	-	-	(24,544)	-	21,202	50.9
POSCO INTERNATIONAL E&P MALAYSIA SDN.							
BHD. (*2)	11,452	5,501	-	-	-	16,953	100
SENEX HOLDINGS PTY LTD (*2) (*3)	407,971	247,427	-		-	655,398	50.1
POSCO INTERNATIONAL MEXICO E-MOBILITY S.A	45 500	00.047				70.507	~
DE C.V. (*2) ESTEEL4U	45,560 5.882	33,947	-		-	79,507 5,882	80 61.1
PT POSCO INTERNATIONAL E&P INDONESIA (*2)	1,848	15.072			-	16,920	100
POSCO INTERNATIONAL E&P INDONESIA (2) POSCO INTERNATIONAL E&P USA Inc. (*2) (*5)	983	1.514		(1,013)	(1,346)	138	100
PT. KRAKATAU POSCO ENERGY	51,999	1,014		(1,010)	(1,040)	51,999	55
Tracheon E&E	22,076					22,076	100
Korea Fuel Cell (*6)	169,268	-		(8,114)	(60.000)	101,154	100
Shinan green energy Co., Ltd. (*4)		-					54.5
NEH Co., Ltd. (*2)	263,894	115,700	-	-	-	379,594	100
POSCO MOBILITY SOLUTION POLAND Sp. 2 a.a.,	-	37,170	-	-	-	37,170	80
	₩ 1,948,123	₩ 456,331	₹ -	₩ (34,595)	₩ (76,032)	₹ 2,293,827	
<associates and="" joint="" venture=""></associates>							
Blue Ocean Recovery PEF No.1	₩ -	₩ -	₩ -	₩ -	₩ -	₩ -	27.5
POSCO MEXICO PROCESSING CENTER HOLDING	11,509					11,509	19.6
LLC. (*1) POSCO-ESDC LTD.	1,160	-		-	-	1,160	20
POSCO LIPC	12,187					12,187	21.7
Shanghai Lansheng Daewoo Corp	12,101	-				14,141	49
Shanghai Waigaoqiao Free Trade Zone Lansheng							
Daewoo Int'l Trading Co., Ltd.	876	-	-	-	-	876	49
GENERAL MEDICINES CO., LTD.	2,990	-	-		-	2,990	33
KOREA LNG LTD.	2,749	-	-	-	-	2,749	20
GLOBAL KOMSCO DAEWOO LLC.	4,445	-	-		-	4,445	35
SOUTH-EAST ASIA GAS PIPELINE CO., LTD. (*5)	132,906	-	-	-	(21,868)	111,038	25
HYUNSON ENGINEERING & CONSTRUCTION (*1)	281	-	-	-	-	281	4.9
YULCHON MEXICO S.A. DE C.V. (*1)	1,349	-	-		-	1,349	6.2
DMSA/AMSA (*1) (*4)	23,740	-		(23,740)	-		3.9
Inco tech Inc. (*1) SHINPOONG DAEWOO PHARMA VIETNAM CO.,	-	-	-	-	-	-	10
LTD. (*1)	343	-			-	343	3.4
POSCO-MALAYSIA SDN. BHD. (*1)	4,247					4,247	13.6
POSCO-ITPC S.P.A (*1)	4,247	-	-	-	-	781	10
HUNCHUN POSCO HMM INTERNATIONAL							
LOGISTICS CO., LTD (*1)	8,412	-	-		-	8,412	10
Gyeonggi Green Energy Co., Ltd. (*1) (*4)		-	-	-	-		19
Noeul Green Energy Co., Ltd. (*1) (*4)	600	-	-	-	-	600	10
Samcheok Blue Power Co., Ltd. (*4)	391,047	-	-	-	-	391,047	29
AES Mang Duang Power Co., Ltd. (*7)	181,226	-	(134,277)	(46,949)	-		-
Mong Duong Finance Holdings B.V (*7)	861	-	(861)	-	-	-	-
ECO ENERGY SOLUTION CO., LTD.	3,000					3,000	50
	₩ 784,709	<u>₹</u>	. (100,100)	₩ (70,689)	₩ (21,868)	₹ 557,014	
	₩ 2,732,832	₩ 456,331	₩ (135,138)	₹ (105,284)	₩ (97,900)	₹ 2,850,841	
U.S. dollar in thousands	\$ 1,859,069	\$ 310,429	\$ (91,931)	\$ (71,622)	\$ (66,599)	\$ 1,939,348	

9.1 Investments in subsidiaries, associates and joint venture as of December 31, 2024 and 2023 are as follows: (Korean won in millions) (cont'd)

(*1) These securities are classified as investments in associates even though the Company's equity ownership is below 20%, as the Company is able to exercise significant influence over the investee.

(*2) Additionally acquired for the year ended December 31, 2024.

(*3) As of December 31, 2024, although the ownership ratio over the entity is 50.1%, it is classified as a subsidiary as the Company is deemed to have control over the entity in substance in accordance with the shareholders' agreement.

(*4) As of December 31, 2024, the Company provides its investment in subsidiaries and associates marked above amounting to $\$ 391,647 million (\$266,427 thousand) of as collateral in relation to the borrowings of subsidiaries and the associates.

(*5) The book value decreased due to paid down capital reduction for the year ended December 31, 2024.

(*6) The entities were disposed of for the year ended December 31, 2024.

(*7) The entities were replaced with assets held for sale for the year ended December 31, 2024.

(*8) For the years ended December 31, 2024, POSCO TMC INDIA PVT. LTD. changed its name to POSCO INTERNATIONAL INDIA E-MOBILITY PVT., LTD.

	2023											
	Beginning						Fording belows	Equity owner-				
<\$ubsidiaries>	balance	to merger	Acquisition	Transfer	Impairment	Disposal	Ending balance	ship (%)				
POSCO INTERNATIONAL AMERICA CORP.	₩ 29.590	₩	₩ .	₩.	. .	₩ -	₩ 29.590	100				
POSCO INTERNATIONAL DEUTSCHLAND GMBH	9,724	w .	w -	w .	· • •	w .	9,724	100				
POSCO INTERNATIONAL JEDTSCHDAND GMBH	104.382	-	-				104.382	100				
			-									
POSCO INTERNATIONAL SINGAPORE PTE. LTD.	3,711						3,711	100				
POSCO INTERNATIONAL ITALIA S.R.L	3,621		-				3,621	100				
POSCO INTERNATIONAL (CHINA) CO., LTD.	20,979		-				20,979	100				
POSCO INTERNATIONAL MYANMAR CORPORATION LIMITED	668						668	100				
POSCO INTERNATIONAL MEXICO S.A. DE C.V.	2,905	-	-				2,905	100				
POSCO INTERNATIONAL MALAYSIA SDN. BHD.	2,192		-		-		2,192	100				
POSCO INTERNATIONAL SHANGHAI CO., LTD.	8,807		-		-		8,807	100				
POSCO INTERNATIONAL INDIA PVT. LTD.	-		-		-			100				
POSCO INTERNATIONAL VIETNAM CO., LTD.	4,613		-		-		4,613	100				
POSCO INTERNATIONAL TEXTILE LLC.	24,808		-		-		24,808	100				
POSCO INTERNATIONAL AUSTRALIA HOLDINGS												
PTY, LTD.	57,153						57,153	100				
POSCO INTERNATIONAL (THAILAND) CO., LTD.	5,785						5,785	100				
PT POSCO INTERNATIONAL INDONESIA	9.314						9.314	99				
AGPA PTE, LTD.	58,481						58,481	100				
PLAAPC CORPORATION	5.027						5.027	100				
BRASIL SAO PAULO STEEL PROCESSING CENTER								51				
POSCO INTERNATIONAL POWER (PNGLAE) LTD.	14,686						14,686	100				
GOLDEN LACE POSCO INTERNATIONAL CO., LTD.								60				
POSCO INTERNATIONAL UKRAINE LLC.								100				
GRAIN TERMINAL HOLDING PTE, LTD.	5.397				(5.397)			75				
POSCO SOUTH EAST ASIA PTE, LTD.								100				
POSCO INTERNATIONAL GLOBAL DEVELOPMENT												
PTE LTD.	14.220				(13,296)		924	75				
POHANG SRDC CO., LTD.	4,550				(10,200)		4.550	51				
POSCO TMC INDIA PVT. LTD.	861						861	73.6				
POSCO MOBILITY SOLUTION CO., LTD.	548,663						548.663	100				
SUZHOU POSCO-CORE TECHNOLOGY CO., LTD.	45.746						45,746	50.9				
POSCO INTERNATIONAL E&P MALAYSIA SDN.								00.0				
BHD. (*2)	4.630		6.822				11.452	100				
SENEX HOLDINGS PTY LTD (*2)(*3)	405,172		2,799				407,971	50.1				
POSCO INTERNATIONAL MEXICO E-MOBILITY S.A			2,100									
DE C.V.	45.560						45.560	80				
ESTEEL4U	5.882						5.882	61.1				
PT POSCO INTERNATIONAL E&P INDONESIA (*4)	0,002	-	1,848			-	1,848	100				
POSCO INTERNATIONAL E&P INDONESIA (4) POSCO INTERNATIONAL E&P USA Inc. (*4)			983				983	100				
POSCO IN TERNATIONAL EAP USA Inc. (14) PT. KRAKATAU POSCO ENERGY (15)(19)		85.089	903			(33.090)	51,999	55				
		22.076	-			(33,040)	22.076	100				
Tracheon E&E (*5)		169.268					169.268	100				
Korea Fuel Cell (*5)		15,344			(15.344)		109,200	54.5				
Shinan green energy Co., Ltd. (*5)		15,344	194,544		(10,344)		263,894	100				
NEH Co., Ltd. (*2) (*5)					-	-		100				
11.6. dellaste the succession	₩ 1,447,127	₩ 361,127	₩ 206,996	· * ·	an louised	₩ (33,090)	₩ 1,948,123					
U.S. dollar in thousands	\$ 984,440	\$ 245,665	\$ 140,814	\$.	\$ (23,154)	\$ (22,510)	\$ 1,325,254					

9.1 Investments in subsidiaries, associates and joint venture as of December 31, 2024 and 2023 are as follows: (Korean won in millions) (cont'd)

	2023													
	Beginning balance		ease due merger	Act	quisition	т	ransfer	Im	Impairment Disposal		isposal	al Ending balance		Equity owner- ship (%)
<associates></associates>														
Blue Ocean Recovery PEF No.1	*	- ₩	-	₩		₩		₩		₩	-	₩		27.5
POSCO MEXICO PROCESSING CENTER HOLDING														
LLC. (*1)	11,509										-		11,509	19.6
POSCO-ESDC LTD.	1,160										-		1,160	20
POSCO IJPC	12,187	7									-		12,187	21.7
Shanghai Lansheng Daewoo Corp		-									-			49
Shanghai Waigaoqiao Free Trade Zone Lansheng														
Daewoo Int'l Trading Co., Ltd.	876	3	-								-		876	49
GENERAL MEDICINES CO., LTD.	2,990)	x'x'										2,990	33
KOREA LNG LTD.	2,749)	-		-						-		2,749	20
GLOBAL KOMSCO DAEWOO LLC.	4,445	i.									-		4,445	35
SOUTH-EAST ASIA GAS PIPELINE CO., LTD.	132,906	3									-		132,906	25
HYUNSON ENGINEERING & CONSTRUCTION (*1)	281	1											281	4.9
SPH Co., Ltd. (*10)	500)	-						-		(500)		-	-
YULCHON MEXICO S.A. DE C.V. (*1)	1,349)											1,349	6.2
DMSA/AMSA (*1)	23,740)											23,740	4
QURO CO., LTD. (*8)	882	2									(882)		-	-
Inco tech Inc. (*1)		-											-	10
Erae AMS Co., Ltd. (*6)	20,163	3					(20,163)						-	-
SHINPOONG DAEWOO PHARMA VIETNAM CO.,														
LTD. (*1)	343	1											343	3
POSCO-MALAYSIA SDN. BHD. (*1)	7,577	r							(3,330)				4,247	14
POSCO-ITPC S.P.A (*1)	781												781	10
HUNCHUN POSCO HMM INTERNATIONAL														
LOGISTICS CO., LTD. (*1) (*7)	8.412	2											8.412	10
Gyeonggi Green Energy Co., Ltd. (*1) (*5)		-												19
Noeul Green Energy Co., Ltd. (*1) (*5)			600										600	10
Samcheok Blue Power Co., Ltd. (*5)			391.047										391.047	29
AES Mang Duang Power Co., Ltd. (*5)		-	181,226										181,226	30
Mong Duong Finance Holdings B.V (*5)			861										861	30
	₩ 232,850	*	573,734	₩		₩	(20,163)	₩	(3.330)	₩	(1.382)	₩	781,709	
<joint venture=""></joint>	. 202,000			-			[20,100]		(0,000)	-	11,002		101,100	
		112	0.000							₩			2.000	50
ECO ENERGY SOLUTION (*5)	*	- <u>₩</u>	3,000	*		*	-	₩	-		-	₩	3,000	50
			3,000	*	-	_	-	₩	-	*	-	*	3,000	
	₩ 1,679,977		937,861	₩	206,996	₩	(20,163)		(37,367)	Ŧ	(34,472)	Ŧ	2,732,832	
U.S. dollar in thousands	\$ 1,142,841		638,001	\$	140,814	\$	(13,716)	\$	(25,420)	\$	(23,450)	\$	1,859,069	

(*1) These securities are classified as investments in associates even though the Company's equity ownership is below 20%, as the Company is able to exercise significant influence over the investee.

(*2) Additional acquisitions were made for the year ended December 31, 2023.

(*3) As of December 31, 2023 although the ownership ratio over the entity is 50.1%, it is classified as a subsidiary as the Company is deemed to have control over the entity in substance in accordance with the shareholders' agreement.

(*4) The entities were newly acquired for the year ended December 31, 2023.

(*5) The entities were acquired through merger for the year ended December 31, 2023.

(*6) For the year ended December 31, 2023, it was reclassified as financial assets at FVOCI as it could not exercise significant influence due to the resignation of outside director, and loss on disposal of investments in associates amounting to $\ 6,157$ million (\$4,188 thousand) was recognized.

(*7) For the year ended December 31, 2023, HUNCHUN POSCO HYUNDAI INTERNATIONAL LOGISTICS changed its name to HUNCHUN POSCO HMM INTERNATIONAL LOGISTICS CO., LTD.

(*8) For the year ended December 31, 2023, the associate was sold and gain on disposal of investments in associates amounting to $\$ 139 million (\$95 thousand) was recognized.

(*9) Due to the merger having occurred for the year ended December 31, 2023, 90% of the shares were acquired, but 35% of the shares were sold, and gain on disposal of investment in the subsidiary amounting to $\ 27,547$ million (\$18,739 thousand) was recognized.

(*10) For the year ended December 31, 2023, the associate was liquidated and gain on disposal of investments in associates amounting to \ 909 million (\$618 thousand) was recognized.
9.2 Impairment losses on investments in subsidiaries and associates

	Korean won in millions											
<u><2024></u>	k	ok value before bairment		coverable mount	for t	rment loss he current period						
POSCO INTERNATIONAL GLOBAL DEVELOPMENT PTE. LTD. (*1) SUZHOU POSCO-CORE TECHNOLOGY CO.,	Ν.	924	Υ.	-	Υ.	924						
LTD. (*2)		45,746		21,202		24,544						
POSCO INTERNATIONAL E&P USA Inc.		1,151		138		1,013						
Korea Fuel Cell (*3)		169,268		161,154		8,114						
DMSA/AMSA (*4)		23,740		-		23,740						
AES Mong Duong Power Co., Ltd. (*3)		181,226		134,277		46,949						
	<u>\</u>	422,055	<u>\</u>	316,771	<u>\</u>	105,284						
U.S. dollar in thousands	\$	287,112	\$	215,490	\$	71,622						

(*1) For the year ended December 31, 2024, an external expert conducted an appraisal by considering sales cases of similar assets in the surrounding area and the profit capitalization method. The recoverable amount of the relevant stake was determined based on the calculation of fair value, and an impairment loss was recognized for the amount that was less than the book value.

(*2) An impairment test was conducted by an external expert for the year ended December 31, 2024. The recoverable amount of the relevant shares is determined based on the calculation of fair value less costs to sell with the assistance of an independent external expert.

(*3) The recoverable amount of the share is determined based on fair value less costs to sell.

(*4) As there were signs suggesting impairment of the relevant share due to changes in production plans, etc. for the year ended December 31, 2024, an impairment test was performed by an external expert. The recoverable amount of the relevant share was determined based on the calculation of value in use, and the value in use was calculated as the present value by applying a discount rate of 17.63% to the expected future cash flow from the date of impairment test, and an impairment loss was recognized.

		۲	Korean w	on in million	s	
<2023>	b	ok value before bairment		overable nount	for th	rment loss ne current period
GRAIN TERMINAL HOLDING PTE. LTD. (*1) POSCO INTERNATIONAL GLOBAL	\	5,397	\	-	\	5,397
DEVELOPMENT PTE. LTD. (*2)		14,220		924		13,296
Shinan green energy Co., Ltd. (*3)		15,344		-		15,344
POSCO-MALAYSIA SDN. BHD.		7,577		4,246		3,331
	<u>\</u>	42,538	<u>\</u>	5,170	<u>\</u>	37,368
U.S. dollar in thousands	\$	28,937	\$	3,517	\$	25,420

(*1) An impairment test was conducted by an external expert for the impairment assessment of the investment stock of GRAIN TERMINAL HOLDING PTE. LTD. for the year ended December 31, 2023. The recoverable amount of the stake is determined based on the calculation of the value in use with the help of an independent external expert. The value in use is estimated by applying a discount rate of 21.29% to the future cash flow from 2024 to 2028 estimated based on the management's business plan and assuming that the business structure in 2028 is maintained, and applying a perpetual growth rate of 1% to the operating profit in the last year of the estimation period.

(*2) An external expert conducted an appraisal of the shares in consideration of sales cases of similar assets in the surrounding area and the profit redistribution method. The recoverable amount of the shares was determined based on the calculation of fair value, and an impairment loss was recognized for the amount that was less than the book value.

(*3) For the year ended December 31, 2023, an impairment test was conducted by an external expert for the purpose of assessing the impairment of Shinan Green Energy Co., Ltd.'s investment stocks. The recoverable amount of the relevant stake is determined based on the calculation of the value in use with the help of an independent external expert. The value in use was measured based on the present value (value in use) of the future cash flows expected to be generated from the cash-generating unit during the operating period of the business until March 31, 2041. The discount rate used was 9.75%, and the average capital structure of similar companies during the evaluation period (operating period) was applied.

10. Property, plant and equipment

10.1 Details of property, plant and equipment as of December 31, 2024 and 2023 are as follows:

			December	31. 2024		
		Kor	ean won in millions			U.S. dollar in thousands
	Acquisition cost	Accumulated depreciation	Accumulated impairment loss	Less: government subsidies	Book value	Book value
Land	\ 308,212	\ -	\ (19,458)	\ -	\ 288,754	\$ 196,431
Buildings	288,244	(167,249)	(9,612)	(248)	111,135	75,602
Structures	923,490	(409,474)	(247)	-	513,769	349,503
Machinery	2,163,878	(1,212,400)	(3,811)	-	947,667	644,671
Vehicles	3,827	(2,906)	-	(14)	907	617
Tools	4,034	(3,339)	-	-	695	473
Fixtures	57,390	(45,711)	-	-	11,679	7,945
Construction-in-progress	11,631				11,631	7,912
	∖ 3,760,706	∖ (1,841,079)	\ (33,128)	\ (262)	∖ 1,886,237	\$ 1,283,154
U.S. dollar in thousands	\$ 2,558,303	\$ (1,252,435)	\$ (22,536)	\$ (178)	\$ 1,283,154	
			December	31. 2023		
		Kor	December ean won in millions	31. 2023		U.S. dollar in thousands
	Acquisition	Kor Accumulated depreciation		31. 2023 Less: government subsidies	Book value	
Land		Accumulated	ean won in millions Accumulated impairment	Less: government		thousands
Land Buildings	cost	Accumulated	ean won in millions Accumulated impairment loss	Less: government subsidies		thousands Book value
	<u>cost</u> ∖ 307,976	Accumulated depreciation	ean won in millions Accumulated impairment loss (19,457)	Less: government subsidies	> 288,519	thousands Book value \$ 196,271
Buildings	Cost 307,976 280,164	Accumulated depreciation \ - (158,569)	ean won in millions Accumulated impairment loss (19,457) (9,613)	Less: government subsidies	× 288,519 111,772	thousands Book value \$ 196,271 76,035
Buildings Structures	Cost 307,976 280,164 793,271	Accumulated depreciation (158,569) (387,006)	ean won in millions Accumulated impairment loss (19,457) (9,613) (248)	Less: government subsidies	× 288,519 111,772 406,017	thousands Book value \$ 196,271 76,035 276,202
Buildings Structures Machinery	Cost 307,976 280,164 793,271 2,149,894	Accumulated depreciation (158,569) (387,006) (1,133,589)	ean won in millions Accumulated impairment loss (19,457) (9,613) (248)	Less: government subsidies (210)	288,519 111,772 406,017 1,012,492	thousands Book value \$ 196,271 76,035 276,202 688,770
Buildings Structures Machinery Vehicles	cost 307,976 280,164 793,271 2,149,894 3,908	Accumulated depreciation (158,569) (387,006) (1,133,589) (3,166)	ean won in millions Accumulated impairment loss (19,457) (9,613) (248)	Less: government subsidies (210) - (25)	288,519 111,772 406,017 1,012,492 717	thousands Book value \$ 196,271 76,035 276,202 688,770 488
Buildings Structures Machinery Vehicles Tools	cost 307,976 280,164 793,271 2,149,894 3,908 6,675	Accumulated depreciation (158,569) (387,006) (1,133,589) (3,166) (6,311)	ean won in millions Accumulated impairment loss (19,457) (9,613) (248)	Less: government subsidies (210)	288,519 111,772 406,017 1,012,492 717 364	thousands Book value \$ 196,271 76,035 276,202 688,770 488 248
Buildings Structures Machinery Vehicles Tools Fixtures	cost 307,976 280,164 793,271 2,149,894 3,908 6,675 58,504	Accumulated depreciation (158,569) (387,006) (1,133,589) (3,166) (6,311)	ean won in millions Accumulated impairment loss (19,457) (9,613) (248)	Less: government subsidies (210) - (25) - (25) - (1)	288,519 111,772 406,017 1,012,492 717 364 12,716	thousands Book value \$ 196,271 76,035 276,202 688,770 488 248 8,650

10.2 Changes in the carrying amount of property, plant and equipment for each of the two years in the period ended December 31, 2024 are as follows:

							20	24							
							Korean wo	n iı	n millions						
	E	Beginning		Increase	Acquisition		Disposal,		Depreciation	lm	pairment	0	thers (*1)		Ending
Land	\mathbf{i}	288,519	\mathbf{i}	-	∖ 235	1	-		-	\mathbf{i}	-	\mathbf{i}	-	\mathbf{i}	288,754
Buildings		111,982		-	-		-		(9,227)		-		8,628		111,383
(Government grants)		(210)		-	-		-		15		-		(53)		(248)
Structures		406,017		-	283		-		(22,467)		-		129,936		513,769
Machinery		1,012,492		-	3,514		(295)		(82,542)		-		14,498		947,667
Vehicles		741		-	463		-		(383)		-		100		921
(Government grants)		(24)		-	-		-		10		-		-		(14)
Tools		364		-	463		-		(132)		-		-		695
Fixtures		12,717		-	3,733		(4)		(5,619)		-		853		11,680
(Government grants)		(1)		-	-		-		-		-		-		(1)
Construction-in-progress		121,965		-	59,698		-		-		-		(170,032)		11,631
	$\overline{\}$	1,954,562	$\overline{\mathbf{x}}$	-	∖ 68,389	$\overline{\}$	(299)		(120,345)	$\overline{}$	-	$\overline{}$	(16,070)	1	1,886,237
U.S. dollar in thousands	\$	1,329,634	\$	-	\$ 46,523	\$	(203)	\$	(81,867)	\$	-	\$	(10,932)	\$	1,283,154

(*1) Including transfers of construction-in-progress to property, plant and equipment and intangible assets.

10.2 Changes in the carrying amount of property, plant and equipment for each of the two years in the period ended December 31, 2024 are as follows: (cont'd)

								20	023							
								Korean wo	on ir	millions						
			I	Increase												
	в	eginning	(Decrease)			I	Disposal,			lm	pairment				Ending
	I	balance	due	e to merger	Acc	uisition		etc.	- 1	Depreciation		(*1)	Ot	hers (*2)	I	balance
Land		22,983		268,869		432	\mathbf{i}	-		-		(3,765)		-		288,519
Buildings		32,165		89,294		-		-		(9,226)		(1,520)		1,269		111,982
(Government grants)		-		(224)		-		-		14		-		-		(210)
Structures		-		424,812		155		-		(20,738)		-		1,788		406,017
Machinery		162,764		924,978		6,468		(1,425)		(82,713)		(3,086)		5,506		1,012,492
Vehicles		471		168		471		-		(369)		-		-		741
(Government grants)		-		(18)		(14)		-		8		-		-		(24)
Tools		15		390		62		-		(103)		-		-		364
Fixtures		9,834		3,086		4,820		(105)		(5,142)		-		224		12,717
(Government grants)		(13)		-		-		-		12		-		-		(1)
Construction-in-progress		28,177		65,745		67,213		-		-		-		(39,170)		121,965
	1	256,396	\mathbf{N}	1,777,100	$\overline{\mathbf{N}}$	79,607		(1,530)		(118,257)	$\overline{}$	(8,371)	$\overline{\mathbf{N}}$	(30,383)	1	1,954,562
U.S. dollar in thousands	\$	174,419	\$	1,208,912	\$	54,154	\$	(1,041)	\$	(80,447)	\$	(5,695)	\$	(20,669)	\$	1,329,634

(*1) For the year ended December 31, 2023, impairment loss of $\8,371$ million (\$5,695 thousand) was recognized as a result of the impairment test on the items of property, plant and equipment held by the Company's subsidiary BRASIL SAO PAULO STEEL PROCESSING CENTER ("BSPC") in Brazil (carrying amount: $\8,604$ million (\$5,853 thousand) in total).

(*2) Including transfers of construction-in-progress to property, plant and equipment and intangible assets.

11. Leases

11.1 Company as a lessee

11.1.1 The carrying amounts and changes in right-of-use assets and lease liabilities for each of the two years in the period ended December 31, 2024 are as follows: (Korean won in millions)

								2024						
				Ri	ght-c	of-use ass	ets							
		lding and ructure		Aircraft		Facility		Others		Total	ree	Lease ceivables	l	Lease iabilities
Beginning balance	\mathbf{X}	12,640	\mathbf{X}	21,952	\mathbf{n}	29,416	\mathbf{n}	24,324	\mathbf{n}	88,332	\mathbf{n}	93,017	\mathbf{n}	118,197
Acquisition		4,848		-		725		3,371		8,944		2,364		10,473
Disposal (Contract termination)		(637)		-		-		(1)		(638)		(593)		(1,122)
Depreciation		(6,444)		(5,096)		(2,620)		(6,290)		(20,450)		-		-
Interest income		-		-		_		-		-		6,313		-
Interestexpense		-		-		-		-		-		-		6,329
Foreign exchange		-		-		-		-		-		10,014		9,727
Lease payment		-		-		-		-		-		-		(42,244)
Lease receipt		-		-		-		-		-		(25,802)		-
Ending balance	$\overline{\}$	10,407		16,856		27,521		21,404		76,188		85,313		101,360
U.S. dollar in thousands	\$	7,080	\$	11,467	\$	18,722	\$	14,561	\$	51,829	\$	58,036	\$	68,952
								2023						

								2023						
				Ri	ght-	of-use asse	ets							
	Bui	lding and		Aircraft		Facility		Others		Total		Lease		Lease
Beginning balance	\	14,970	$\langle \rangle$	584	\langle	-	$\langle \rangle$	711	\mathbf{n}	16,265	\mathbf{x}	91,717	\langle	73,210
Increase due to merger		-		-		31,922		-		31,922		-		4,038
Acquisition		3,594		25,137		99		28,212		57,042		51,606		107,324
Depreciation		(5,924)		(3,769)		(2,605)		(4,599)		(16,897)		-		-
Interest income		-		-		-		-		-		5,968		-
Interest expense		-		-		-		-		-		-		5,020
Foreign exchange		-		-		-		-		-		1,530		(1,471)
Lease payment		-		-		-		-		-		-		(69,924)
Lease receipt		-		-		-		-		-		(57,804)		-
Ending balance	\mathbf{N}	12,640	\mathbf{N}	21,952	\mathbf{N}	29,416	\mathbf{N}	24,324	\	88,332	\mathbf{N}	93,017	$\mathbf{\mathbf{N}}$	118,197
U.S. dollar in thousands	\$	8,599	\$	14,933	\$	20,011	\$	16,547	\$	60,090	\$	63,277	\$	80,406

11.1.2 The amounts recognized in profit or loss for each of the two years in the period ended December 31, 2024 in relation to leases are as follows:

		Korean wor	n in mi	illions	 6. dollar in ousands
		2024		2023	 2024
<revenues></revenues>					
Interest income on lease receivables	\mathbf{X}	6,313	\mathbf{N}	5,968	\$ 4,295
<expenses></expenses>					
Depreciation of right-of-use assets	\mathbf{N}	(20,450)	\mathbf{N}	(16,897)	\$ (13,912)
Interest on lease liabilities		(6,329)		(5,020)	(4,305)
Short-term lease payments		(1,230)		(3,233)	(837)
Lease payments of leases of low-value assets		(1,969)		(1,687)	(1,339)
	\mathbf{N}	(29,978)	\mathbf{i}	(26,837)	\$ (20,393)
Net profit or loss		(23,665)	\	(20,869)	\$ (16,098)

11.2 Company as a lesser

11.2.1. Details of finance lease receivables as of December 31, 2024 and 2023 are as follows:

		Dec. 3 ⁻	1, 2024		Dec. 31, 2023					
	C	urrent	Nor	n-current	C	urrent	Non-current			
Finance lease receivables	\mathbf{X}	17,488	\mathbf{N}	67,825	\mathbf{n}	23,276	\mathbf{N}	69,741		
U.S. dollar in thousands	\$	11,897	\$	46,139	\$	15,834	\$	47,443		

11.2.2 Details of the maturity profile on finance lease receivables for each of the two years in the period ended December 31, 2024 are as follows. The maturity amount is an undiscounted contractual cash flow that includes interest received.

		202	24	
		ean won in nillions		. dollar in ousands
Within 1year	$\overline{\}$	18,042	\$	12,273
More than 1year but less than 5years		38,438		26,148
More than 5years		59,208		40,278
	<u>\</u>	115,688	\$	78,699
More than 5years	<u>\</u>		\$	
		204		

		202	2023				
		Korean won in millions					
Within 1year	Ν.	23,946	\$	16,290			
More than 1year but less than 5years		48,829		33,217			
More than 5years		53,836		36,623			
	<u>\</u>	126,611	\$	86,130			

11.2.3 The Company recognized rental income of $\$ 12,355 million (\$8,405 thousand) and $\$ 12,146 million (\$8,263 thousand) in relation to operating lease arrangements for each of the two years in the period ended December 31, 2024, respectively.

12. Intangible assets

12.1 Intangible assets as of December 31, 2024 and 2023 are as follows:

					Dec. 31	,2024					
				Korean v	won in millions						. dollar in ousands
	Acquisiti cost	on	Accumulated amortization	l ir	ccumulated mpairment loss		vernment grants	В	ook value	Вс	ok value
Goodwill	N .	- `	`	- \	-	~	-	Ν.	-	\$	-
Exploration and evaluation intangible assets	163	,004		-	(123,497)		(2,197)		37,310		25,381
Industrial property rights	3	,648	(2,59	1)	-		-		1,057		719
Mining rights (*1)	2,417	,360	(1,403,48	6)	-		-		1,013,874		689,710
Membership	17	,163	(8	1)	-		-		17,082		11,620
Software		,442	(51,55	6)	-		-		43,886		29,854
Others	5	,923			-		-		5,923		4,029
	<u>\</u> 2,702	,540	(1,457,71	4) \	(123,497)	<u>\</u>	(2,197)	<u>\</u>	1,119,132	\$	761,313
U.S. dollar in thousands	\$ 1,838	,463	\$ (991,64	2) \$	(84,012)	\$	(1,495)	\$	761,314		
					Dec. 31	,2023					
				Korean v	won in millions						. dollar in ousands
	Acquisiti cost	on	Accumulated amortization	l ir	ccumulated mpairment loss		vernment grants	в	ook value	Вс	ok value
Goodwill	<u>۱</u>	,033	× (1,03	3) \	-	~	-	\	-	\$	-
Exploration and evaluation intangible assets	195	,287		-	(124,261)		(33,716)		37,310		25,381
Industrial property rights	3	,140	(2,18	0)	-		-		960		653
Mining rights (*1)	2,315	,797	(1,244,13	8)	-		-		1,071,659		729,020
Membership	17	,273	(16	5)	(498)		-		16,610		11,299
Software	91	,246	(59,39	4)	-		-		31,852		21,668
Others					-		-		-		-
	<u>\</u> 2,623	,776	(1,306,91	0) \	(124,759)	<u>\</u>	(33,716)	<u> </u>	1,158,391	\$	788,021

(*1) Including the mining rights related to Myanmar A-1/A-3 blocks.

12.2 Changes in the net book value of intangible assets for each of the two years in the period ended December 31, 2024 are as follows:

	2024															
		Korean won in million												U.S. dollar in thousands		
		Beginning balance	Acqu	isition	Disp	osal, etc.	An	nortization		Reversal		Others (*1)	Enc	ling balance	Endi	ng balance
Exploration and evaluation intangible													-			
assets	Ν.	71,026	Ν	-	Ν	(764)	Υ	-	\mathbf{N}	764	\mathbf{N}	(31,519)	\mathbf{N}	39,507	\$	26,876
(Gov ernment grants)		(33,716)		-		-		-		-		31,519		(2,197)		(1,495)
Industrial property rights		960		508		-		(411)		-		-		1,057		719
Mining rights (*2)		1,071,659		101,563		-		(159,348)		-		-		1,013,874		689,710
Membership		16,610		687		(180)		(35)		-		-		17,082		11,620
Software		31,852		3,097		-		(6,407)		-		15,344		43,886		29,854
Others		-		-		-		-		-		5,923		5,923		4,029
	$\overline{\mathbf{x}}$	1,158,391		105,855		(944)	$\overline{}$	(166,201)	$\overline{}$	764	$\overline{\}$	21,267	$\overline{\mathbf{N}}$	1,119,132	\$	761,313
U.S. dollar in thousand	\$	788,021	\$	72,010	\$	(642)	\$	(113,062)	\$	519	\$	14,467	\$	761,313		

(*1) Including transfers from construction-in-progress and decrease due to the approval of exemption from the repayment obligation of contingent loans.

(*2) Including the mining rights related to Myanmar A-1/A-3 blocks.

12.2 Changes in the net book value of intangible assets for each of the two years in the period ended December 31, 2024 are as follows: (cont'd)

	2024															
		Korean won in million												8. dollar in housands		
		Beginning														
		balance		Acquisition		Disposal, etc.		Amortization		Reversal		Others (*1)	Er	nding balance	Enc	ling balance
Exploration and evaluation intangible					_				_		_		_			
assets	**	71,026	**	-	÷	(764)	₩	-	₩	764	₩	(31,519)	₩	39,507	\$	26,876
(Government grants)		(33,716)		-		-		-		-		31,519		(2,197)		(1,495)
Industrial property rights		960		508		-		(411)		-		-		1,057		719
Mining rights (*2)		1,071,659		101,563		-		(159,348)		-		-		1,013,874		689,710
Membership		16,610		687		(180)		(35)		-		-		17,082		11,620
Software		31,852		3,097		-		(6,407)		-		15,344		43,886		29,854
Others		-		-		-		-		-		5,923		5,923		4,029
	Ŧ	1,168,391	푹	106,866	Ŧ	F (944)	ㅠ	(188,201)	둒	784	둒	21,287	둒	1,119,132	8	761,313
U.S. dollar in thousands	\$	788,021	\$	72,010	\$	(842)	\$	(113,062)	\$	619	\$	14,487	\$	761,313		
	-		_				_		_		_		_			

(*1) Including transfers from construction-in-progress and decrease due to the approval of exemption from the repayment obligation of contingent loans.

(*2) Including the mining rights related to Myanmar A-1/A-3 blocks.

12.3 Joint arrangement

The mining rights of intangible assets and the machinery of property, plant and equipment include the Company's share of the jointly held assets held under joint arrangements. The major joint arrangements of the Company as of December 31, 2024 are as follows:

		Equity interest	
	Activities	(%)	Location
Myanmar A-1/A-3 blocks	Development and production for gas area	51	Myanmar
Offshore midstream	Gas transmission facilities	51	Myanmar

13. Investment properties

13.1 Details of Investment properties as of December 31, 2024 and 2023 are as follows:

				Dec. 3	31, 2024			
			Korean	won in million	s			. dollar in ousands
	Acqu	isition cost	Accumulated depreciation		Во	ook value	Вс	ook value
Land	\mathbf{i}	50,368	\	-	\	50,368	\$	34,264
Buildings		113,658		(29,563)		84,095		57,207
	<u>\</u>	164,026	<u>\</u>	(29,563)	<u>\</u>	134,463	\$	91,471
U.S. dollar in thousands	\$	111,582	\$	(20,111)	\$	91,471		

				Dec. 3	81, 2023			
			Korean	won in million	s			6. dollar in lousands
	Acqu	isition cost		Accumulated depreciation		Book value		ook value
Land	\	50,368		-	\mathbf{N}	50,368	\$	34,264
Buildings		113,658		(26,720)		86,938		59,141
	<u>\</u>	164,026	<u>\</u>	(26,720)	<u>\</u>	137,306	\$	93,405
U.S. dollar in thousands	\$	111,582	\$	(18,177)	\$	93,405		

13.2 Changes in the book values of investment properties for each of the two years in the period ended December 31, 2024 are as follows:

			Korean v	von in million	5	
				2024		
		eginning palance	Dep	preciation		Ending balance
Land	Ν.	50,368	\mathbf{N}	-	\mathbf{N}	50,368
Building		86,938		(2,843)		84,095
	\mathbf{X}	137,306	\mathbf{X}	(2,843)	\mathbf{N}	134,463
U.S. dollar in thousands	\$	93,405	\$	(1,934)	\$	91,471

			Korean v	von in millions	6	
				2023		
		eginning balance	Depreciation			Ending balance
Land	\mathbf{N}	50,368	\mathbf{N}	-	\mathbf{N}	50,368
Building		89,781		(2,843)		86,938
	\mathbf{X}	140,149	\mathbf{N}	(2,843)	\setminus	137,306
U.S. dollar in thousands	\$	95,339	\$	(1,934)	\$	93,405

13.3 The fair value of investment properties

The fair value of investment property amount to $\ 170,860$ million (\$116,231 thousand) as of December 31, 2024.

13.4 Details of income and expense arising from investment properties for each of the two years in the period ended December 31, 2024 are as follows:

		Korean wor	n in mi	illions	S. dollar in ousands
		2024		2023	2024
Rental income	$\overline{\}$	11,921	\mathbf{N}	11,841	\$ 8,110
Operating expense		(6,391)		(6,261)	(4,348)
	<u>\</u>	5,530	\mathbf{N}	5,580	\$ 3,762

13.5 Joint arrangement

The Company owns POSCO Tower Songdo, a real estate property, located in Yeonsu-gu, Incheon, under a joint arrangement. As of December 31, 2024, the Company owns 60% of the real estate property and has classified the asset as property, plant and equipment and investment properties. Such joint arrangements are accounted for as joint operations, and rental income generated and expenses incurred as a result of the joint operation are recognized as income and expenses in proportion to the Company's shares.

14. Trade and other payables

Details of trade and other payables as of December 31, 2024 and 2023 are as follows: (Korean won in millions)

		Dec. 31,	2024			Dec. 31,	2023	
		Current	Non- current		Current			Non- urrent
Trade payables	\mathbf{N}	1,692,914	\mathbf{X}	-	\mathbf{N}	2,056,170	\mathbf{N}	-
Other payables		423,880		699		302,021		1,698
Accrued expenses		20,829		-		17,560		-
Guarantee deposits received		26,762		5,387		1,064		7,228
Lease liabilities		39,129		62,231		41,033		77,164
Financial guarantee liabilities		707		637		1,684		2,486
	\mathbf{N}	2,204,221	\mathbf{N}	68,954	\mathbf{N}	2,419,532	\mathbf{N}	88,576
U.S. dollar in thousands	\$	1,499,470	\$	46,907	\$	1,645,940	\$	60,256

15. Borrowings and bonds

15.1 Details of borrowings as of December 31, 2024 and 2023 are as follows:

		Annual interest	The longest		Korean won	in millioi	ıs		6. dollar in ousands
	Creditor	rates	maturity	Dec	. 31, 2024	Dec	. 31, 2023	Dec	. 31, 2024
<current borrowi<="" th=""><th>ings></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></current>	ings>								
Short-term bo	prrowings:								
Banker's usance and others	Wooribank and others	3M TERM SOFR+1.50% and others	Nov. 1, 2025	Υ.	6,932	~	12,521	\$	4,716
NEGO borrowings	Wooribank and others	3M TERM SOFR+0.64% and others	Nov. 1, 2025		503,343		457,817		342,410
General borrowings (Limit)	Wooribank and others	3M TERM SOFR+0.98% and others	Nov. 1, 2025		52,198		139,956		35,509
				\mathbf{X}	562,473	<u>\</u>	610,294	\$	382,635
Current-portic	on of long-term bor	rowings:							
Energy special account financing loan	Korea Energy Agency	3year government bond yield- 2.25%	Dec. 31, 2025		1,385		1,843		942
Contingent loans	Korea Energy Agency	3year government bond yield- 1.25%	Sep. 30, 2025		9,113		6,717		6,199
Other borrowings (*1)	Korea EXIM Bank and others	2.12% and others	Nov. 28, 2025		432,463		97,851		294,193
Less: present v					(565)				(384)
				\ \	442,396	\ \	106,411	\$	300,950
					1,004,869	1	716,705	\$	683,585

15.1 Details of borrowings as of December 31, 2024 and 2023 are as follows: (cont'd)

	Creditor	Annual interest rates	The longest maturity		Korean wor 2. 31, 2024		ons c. 31, 2023	t	S. dollar in nousands c. 31, 2024
<non-current bor<="" th=""><th></th><th>Tales</th><th>maturity</th><th>Dec</th><th></th><th>De</th><th>C. 31, 2023</th><th>De</th><th>. 31, 2024</th></non-current>		Tales	maturity	Dec		De	C. 31, 2023	De	. 31, 2024
	-	ated in Korean won:							
Energy special account financing loan	Korea Energy Agency	3year government bond yield- 2.25%	Dec. 15, 2027	Υ.	403		768	\$	274
Other borrowings (*1)	Korea Rural Community Cooperation and others	2.00% and others	Sep. 15, 2035		106,127		129,477		72,195
				\mathbf{N}	106,530	\mathbf{N}	130,245	\$	72,469
Long-term bo Energy special account financing loan	rrowings denomina Korea Energy Agency	3year 3year government bond yield- 2.25%	Dec. 15, 2027		1,050		1,815		714
Contingent loans (*2)	Korea Energy Agency	3year government bond yield- 1.25%	Undecided		89,863		64,682		61,131
Other borrowings (*1)	Korea EXIM Bank and others	2.12% and others	Oct. 8, 2027		294,923		485,912		200,628
(.)	culoio	ounoro	00000, 2020		385,836		552,409	\$	262,473
				1	492,366	1	682,654	\$	334,942
Less: present v	value discount					\mathbf{X}	(1,030)	\$	-
				1	492,366	\mathbf{N}	681,624	\$	334,942
Total borrowi	ngs			<u>\</u>	1,497,235	<u>\</u>	1,398,329	\$	1,018,527

(*1) The Company's property, plant and equipment are provided as collateral for the borrowings as of December 31, 2024 (see Note 20).

(*2) Due to the nature of the exploration project, the maturity date of the contingent loan cannot be specified.

15.2 Details of bonds as of December 31, 2024 and 2023 are as follows:

Current Portion of bonds: Jul. 10, 17-1st unsecured bond 3.13% 2025 \ 70,000 \ - \$ \$ 47,61 Mar. 7, 21-2nd unsecured bond 2.27% 2024 - 130,000 22-2nd unsecured bond 1.73% Jul. 4, 2024 - 80,000 Apr. 29, 2024 - 60,000 Aug. 8, - -	Annual interest			Korean won	in millions	U.S. dollar in thousands	۱
Jul. 10, 17-1st unsecured bond 3.13% 2025 \ 70,000 - \$ 47,61 Mar. 7, 21-2nd unsecured bond 2.27% 2024 - 130,000 22-2nd unsecured bond 1.73% Jul. 4, 2024 - 80,000 Apr. 29, 2024 - 60,000 Aug. 8, - -	rates Maturity		<u>Maturity</u> D	Dec. 31, 2024	Dec. 31, 2023	Dec. 31, 2024	4
17-1st unsecured bond 3.13% 2025 70,000 - \$ 47,61 Mar. 7, 21-2nd unsecured bond 2.27% 2024 - 130,000 22-2nd unsecured bond 1.73% Jul. 4, 2024 - 80,000 Apr. 29, 22-4th unsecured bond 2.52% 2024 - 60,000		Current Portion of bonds:					
Mar. 7, 21-2nd unsecured bond 2.27% 2024 - 130,000 22-2nd unsecured bond 1.73% Jul. 4, 2024 - 80,000 Apr. 29, 22-4th unsecured bond 2.52% 2024 - 60,000	Jul. 10,		Jul. 10,				
21-2nd unsecured bond 2.27% 2024 - 130,000 22-2nd unsecured bond 1.73% Jul. 4, 2024 - 80,000 Apr. 29, 22-4th unsecured bond 2.52% 2024 - 60,000 Aug. 8, - - - - - -	3.13% 2025	17-1st unsecured bond	2025 \	70,000	\ -	\$ 47,61	9
22-2nd unsecured bond 1.73% Jul. 4, 2024 - 80,000 Apr. 29, 22-4th unsecured bond 2.52% 2024 - 60,000 Aug. 8, Aug. 8, - - - -	Mar. 7,		Mar. 7,				
22-4th unsecured bond 2.52% 2024 - 60,000 Aug. 8, Aug. 8, - </td <td>2.27% 2024</td> <td>21-2nd unsecured bond</td> <td>2024</td> <td>-</td> <td>130,000</td> <td></td> <td>-</td>	2.27% 2024	21-2nd unsecured bond	2024	-	130,000		-
22-4th unsecured bond 2.52% 2024 - 60,000 Aug. 8,	1.73% Jul. 4, 202	22-2nd unsecured bond	ul. 4, 2024	-	80,000		-
Aug. 8,	Apr. 29,		Apr. 29,				
	2.52% 2024	22-4th unsecured bond	2024	-	60,000		-
22-5th unsecured bond 1.92% 2024 - 60.000	Aug. 8,		Aug. 8,				
	1.92% 2024	22-5th unsecured bond	2024	-	60,000		-
May 28,	May 28,		May 28,				
24-2nd unsecured bond 1.94% 2025 50,000 - 34,01	1.94% 2025	24-2nd unsecured bond	2025	50,000	-	34,01	4
Aug. 6,	Aug. 6,		Aug. 6,				
24-6th unsecured bond 1.68% 2025 110,000 - 74,83	1.68% 2025	24-6th unsecured bond	2025	110,000	-	74,83	80
Mar. 19,	Mar. 19		Mar. 19,				
25-1st unsecured bond 1.51% 2024 - 70,000	1.51% 2024	25-1st unsecured bond	2024	-	70,000		-
Oct. 18,	Oct. 18,		Oct. 18,				
25-4th unsecured bond 2.50% 2024 - 219,500	2.50% 2024	25-4th unsecured bond	2024	-	219,500		-
Oct. 11,	Oct. 11,		Oct. 11,				
26th unsecured bond 1.68% 2024 - 257,880	1.68% 2024	26th unsecured bond	2024	-	257,880		-

15.2 Details of bonds as of December 31, 2024 and 2023 are as follows: (cont'd)

	Annual interest			Korean wo	n in mill	lions		5. dollar in Iousands
	rates	Maturity	De	c. 31, 2024		c. 31, 2023		c. 31,2024
Current Portion of bonds:								
27th unsecured bond 28th unsecured bond	Daily SOFR+1.30% p.a. 3M TERM	Mar. 17, 2025 Jul. 26,		367,500		-		250,000
(*1) 29th unsecured bond	SOFR+1.50% p.a. Daily SORA+1.55%	2025 Oct. 25,		147,000		-		100,000
(*1)	p.a.	2025 Jan. 27,		183,783		-		125,022
30-1st unsecured bond	2.86%	2025 Aug. 29,		160,000		-		108,844
32-1st unsecured bond	4.29%	2025	<u> </u>	<u>30,000</u> 1,118,283	<u> </u>	877,380	\$	20,408 760,737
Less: present value disco	unt on bonds			(548)	<u> </u>	(671)	\$	(373)
Non-current bonds:				1,117,735		876,709	<u> </u>	760,364
17-1st unsecured bond	3.13%	Jul. 10, 2025	\mathbf{X}	_	\mathbf{X}	70,000	\$	_
22-3rd unsecured bond	1.95%	Jul. 4, 2026 Aug. 8,	× ×	50,000	Ň	50,000	Ψ	34,014
22-6th unsecured bond	2.25%	2026 May 28,		50,000		50,000		34,014
24-2nd unsecured bond	1.94%	2025 Apr. 28,		-		50,000		-
24-4th unsecured bond	2.47%	2027 Aug. 6,		50,000		50,000		34,014
24-6th unsecured bond	1.68%	2025 Aug. 6,		-		110,000		-
24-7th unsecured bond	1.86%	2027 Mar. 19,		40,000		40,000		27,211
25-2nd unsecured bond	2.18%	2026 Mar. 17,		80,000		80,000		54,422
25-3rd unsecured bond	2.47% Daily SOFR+1.30%	2028 Mar. 17,		50,000		50,000		34,014
27th unsecured bond	p.a. 3M TERM	2025 Jul. 26,		-		322,350		-
28th unsecured bond	SOFR+1.50% p.a. Daily SORA+1.55%	2025 Oct. 25,		-		128,940		-
29th unsecured bond	p.a.	2025 Jan. 27,		-		166,066		-
30-1st unsecured bond	2.86%	2025 Jan. 27,		-		160,000		-
30-2nd unsecured bond	3.02%	2027 May 2,		40,000		40,000		27,211
30-3rd unsecured bond	4.00%	2032 May 25,		100,000		100,000		68,027
31th unsecured bond	4.18%	2026 Aug. 29,		200,000		200,000		136,054
32-1st unsecured bond	4.29%	2025 Aug. 28,		-		30,000		-
32-2nd unsecured bond	4.39%	2026 Aug. 29,		120,000		120,000		81,633
32-3rd unsecured bond	4.56%	2028 Sep. 11,		50,000		50,000		34,014
33-1st unsecured bond 33-2nd unsecured bond	3.28% 3.25%	2026 Sep. 10, 2027		80,000 190,000		-		54,422 129,252
33-3rd unsecured bond	3.34%	Sep. 12, 2029		30,000		-		20,408
34th unsecured bond	3M TERM SOFR+1% p.a.	Oct. 8, 2027		441,000		-		300,000
	p.u.	2021	\mathbf{i}	1,571,000	\mathbf{h}	1,867,356	\$	1,068,710
Less: present value disco	unt on bonds		<u> </u>	(3,903) 1,567,097	<u> </u>	(3,242)	\$	(2,655)
			$\overline{}$		$\overline{}$			
			<u> </u>	2,684,832		2,740,823	\$	1,826,419

(*1) The Company enters into currency swap contracts to avoid the risk of exchange rate fluctuations and interest rate fluctuations.

16. Other liabilities

Details of other liabilities as of December 31, 2024 and 2023 are as follows: (Korean won in millions)

	Dec. 31, 2024				Dec. 31, 2023			
	0	Current	Nor	n-current	C	Current	Non-current	
Advances received		53,954	\mathbf{i}	-	$\overline{\}$	54,367	\mathbf{N}	-
Unearned revenue		44,633		-		34,404		-
Withholdings		74,429		37,310		91,467		37,310
	\mathbf{N}	173,016	\mathbf{N}	37,310	\mathbf{N}	180,238	\mathbf{N}	37,310
U.S. dollar in thousands	\$	117,698	\$	25,381	\$	122,611	\$	25,381

17. Retirement benefits

The Company operates a defined benefit pension plan and a defined contribution pension plan for its employees and uses the projected unit credit method in the actuarial valuation of plan assets and the defined benefit obligation.

17.1 The amounts recognized as expenses under the defined contribution pension plan for each of the two years in the period ended December 31, 2024 are as follows:

		Korean won	in mil	lions		dollar in usands
		2024		2023	2024	
Defined contribution retirement benefit expense	\mathbf{N}	959	\mathbf{N}	691	\$	652

17.2 Details of net defined benefit liabilities (assets) as of December 31, 2024 and 2023 are as follows:

	Korean won in millions					S. dollar in nousands
		c. 31, 2024	Dec	c. 31, 2023	Dec. 31, 2024	
Present value of defined benefit obligation	\mathbf{N}	208,296	\mathbf{N}	185,762	\$	141,698
Fair value of plan assets		(258,793)		(227,180)		(176,050)
Net defined benefit assets		(50,497)		(41,418)		(34,352)

17.3	Changes in the present values of defined benefit obligation for each of the two years in the
period	ended December 31, 2024 are as follows:

		Korean wor	 6. dollar in ousands		
		2024		2023	 2024
Beginning balance	Ν.	185,762	\mathbf{N}	126,925	\$ 126,369
Current service cost		19,191		16,401	13,055
Interest cost		7,712		8,502	5,246
Benefits paid		(19,911)		(20,078)	(13,545)
Increase due to merger		-		38,417	-
Re-measurement loss(gain) in OCI: - Actuarial changes arising from changes in demographic assumptions - Actuarial changes arising from changes in		1,884		1	1,282
financial assumptions		8,368		11,843	5,693
- Others		5,029		4,177	3,421
Others		261		(426)	 178
Ending balance	<u>\</u>	208,296	\	185,762	\$ 141,699

17.4 Changes in the fair values of plan assets for each of the two years in the period ended December 31, 2024 are as follows:

	Korean won in millions					6. dollar in ousands
		2024		2023		2024
Beginning balance	\mathbf{N}	227,180	\mathbf{N}	159,378	\$	154,544
Contribution by the employer		40,500		29,100		27,551
Interest income		6,679		10,439		4,544
Benefits paid		(19,822)		(19,953)		(13,484)
Increase due to merger		-		48,901		-
Re-measurement gain (loss) in OCI: - Actuarial changes arising from changes in						
financial assumptions		3,993		(332)		2,716
Others		263		(353)		179
Ending balance	<u>\</u>	258,793	<u>\</u>	227,180	\$	176,050

17.5 The components of plan assets as of December 31, 2024 and 2023 are as follows:

	k	Korean won in millions					
	Dec. :	Dec. 31, 2024			Dec. 31, 2024		
Debt products	\setminus	70,758	\mathbf{N}	69,714	\$	48,135	
Deposit product		5,821		59,496		3,960	
Others		182,214		97,970		123,955	
	$\overline{\ }$	258,793	\mathbf{N}	227,180	\$	176,050	

17.6 The gains and losses recognized in relation to defined benefit plans for each of the two years in the period ended December 31, 2024 are as follows:

		U.S. dollar in thousands				
		2024		2023		2024
Current service cost	Υ.	19,191	\mathbf{X}	16,401	\$	13,055
Net interest on net defined benefit		1,033		(1,936)		703
	<u> </u>	20,224	\mathbf{N}	14,465	\$	13,758

17.7 Details of remeasurement gains (losses) recorded in other comprehensive income for each of the two years in the period ended December 31, 2024 are as follows:

		Korean wor	U.S. dollar in thousands			
	2024			2023		2024
Re-measurement of defined benefit obligation Re-measurement of plan assets	١	(15,281) 3,993	Υ.	(16,021) (332)	\$	(10,395) 2,716
	\mathbf{i}	(11,288)	\	(16,353)	\$	(7,679)
Income tax effect		2,768		4,029		1,883
Other comprehensive income	<u>\</u>	(8,520)	<u>\</u>	(12,324)	\$	(5,796)

17.8 The principal assumptions used in actuarial valuations as of December 31, 2024 and 2023 are as follows:

	Dec. 31, 2024	Dec. 31, 2023
Discount rate	3.70%	4.28%
Expected future salary growth rate	5.00%	5.00%

The sensitivity analysis of defined benefit obligations arising from changes in the principal assumptions as of December 31, 2024 is as follows:

	Discount rate					salary e		
		% point ncrease		% point ecrease		% point		% point lecrease
Amount (Korean won in millions)	\mathbf{N}	(16,638)	\mathbf{N}	17,246	\mathbf{N}	16,840	\mathbf{X}	(16,605)
Amount (U.S. dollar in thousands)	\$	(11,318)	\$	11,732	\$	11,456	\$	(11,296)
Rate		(7.99%)		8.28%		8.08%		(7.97%)

17.9 Details of impact on defined benefit plans for future cash flows are as follows:

There are no additional estimated contributions for the fiscal year ending December 31, 2025. The maturity profile of the Company's un-discounted pension benefit payments for the year ended December 31, 2024 is as follows:

		Korean won in millions										
	Le	Less than 1year		1year to 2years		2year to 5years						
								Over 5years		Total		
Benefits paid	\mathbf{N}	13,128	\mathbf{i}	29,554	\mathbf{X}	55,707	\mathbf{n}	484,108	\mathbf{n}	582,497		
U.S. dollar in thousands	\$	8,931	\$	20,105	\$	37,896	\$	329,325	\$	396,257		

The weighted average maturity of the Company's defined benefit obligations is 8.44 years.

18. Provisions

18.1 Details of provisions as of December 31, 2024 and 2023 are as follows: (Korean won in millions)

	_	Dec. 3	1, 2024	<u>ا</u>	Dec. 31, 2023				
	С	urrent	Nor	-current	С	urrent	Non-current		
Provision for bonus, etc.	\mathbf{N}	29,473	\mathbf{N}	-	\mathbf{N}	23,994	\mathbf{N}	-	
Provision for REC (*1)		64,249		-		64,166		-	
Provision for LTSA (*2)		-		-		6,963		8,406	
Provision for emission rights (*3) (see Note 19)		-		5,750		2,945		5,750	
Provision for contingency (see Note 20)		-		22,056		-		21,902	
Provision for restoration (*4) (see Note 20)		-		59,378		-		50,583	
	\mathbf{N}	93,722	\mathbf{N}	87,184	\mathbf{N}	98,068	\mathbf{N}	86,641	
U.S. dollar in thousands	\$	63,756	\$	59,309	\$	66,713	\$	58,939	

(*1) In accordance with Article 12-5 of the Act on the Promotion of The Development, Use and Diffusion of New and Renewable Energy, the Company has an obligation to supply more than a certain amount of power generation using new and renewable energy. In accordance with the Act, the amount required to fulfill its obligations, including the amount of insufficient supply among the supply using new and renewable energy that the Company had to bear during the current period, was estimated and set as a provision.

(*2) The Company terminated fuel cell long-term service agreement (the "LTSA") and returned the service fee according to the contract, using up the entire reserve liabilities.

(*3) The Company establishes the provision for emission rights for the obligation to submit emission rights that exceed the free emissions rights it holds.

(*4) The Company recorded provisions for restoration (see note 20) subject to the obligations to restore mining areas and office leases.

18.2 Changes in provisions for each of the two years in the period ended December 31, 2024 are as follows:

								2024						
						Ko	rean	won in mill	ions					
		vision for bonus		rovision or REC	for	ovision emission rights		vision for tingency		ision for oration		vision for LTSA		Total
Beginning balance	w	23,994	₩	64,166	₩	8,695	₩	21,902	₩	50,583	₩	15,389	₩	184,709
Increase		45,878		64,249		-		9,086		2,097		1,597		122,907
Reversal		-		-		(2,945)		(8,312)		-		-		(11,257)
Used		(40,399)		(64,166)		-		(2,654)		(278)		(16,966)		(124,463)
Foreign currency translation		-		-		-		2,034		6,976		-		9,010
Ending balance		29,473	₩	64,249	₩	5,750	₩	22,056	₩	59,378	₩	-	₩	180,906
U.S. dollar in thousands	\$	20,050	\$	43,707	\$	3,912	\$	15,004	\$	40,393	\$	-	\$	123,065
								2023						
						Ko	rean	won in mill	ions					
					Pr	ovision								
		vision for bonus		rovision or REC		emission rights		vision for htingency		ision for oration		vision for TSA (*1)		Total
Beginning balance	₩	28,765	₩	-	₩	-	₩	19,976	₩	45,840	₩	-	₩	94,581
Increase due to merger		-		123,073		13,402		-		-		82,956		219,431
Increase		33,393		64,166		2,945		3,740		4,182		123		108,549
Reversal		-		-		(7,652)		(42)		(80)		(15,993)		(23,767)
Used		(38,164)		(123,073)		-		(2,009)		(99)		(51,717)		(215,062)
Foreign currency translation		-		-		-		237		740		-		977
Ending balance	₩	23,994	₩	64,166	₩	8,695	₩	21,902	₩	50,583	₩	15,369	₩	184,709
U.S. dollar in thousands	\$	16,322	\$	43,650	\$	5,915	\$	14,899	\$	34,410	\$	10,455	\$	125,652

(*1) For the year ended December 31, 2023, provisions amounting to $\ 15,993$ million (\$10,839 thousand) were reversed due to the notice of termination of the long-term maintenance contract with CGN YULCHON GENERATION CO., LTD., and the amount used includes costs amounting to $\ 46,217$ million (\$31,440 thousand) from facility replacement of Noeul Green Energy Co., Ltd.

19. Greenhouse gas emission rights and liabilities

19.1 Greenhouse gas emission rights held for the purpose of fulfilling obligations

19.1.1 The quantity of free emission rights allocated to the Company for the 3rd commitment period (compliance year 2022 to 2025) is as follows:

		Ton (tCO2-eq)									
	For 2022 (KAU22)	For 2023 (KAU23)	For 2024 (KAU24)	For 2025 (KAU25)	Total						
Free emission rights (*1)	4,149,936	4,218,056	5,340,356	5,091,720	18,800,068						

(*1) Presenting the free emission rights succeeded due to the merger.

19.1.2 Changes in the quantity and book values of the emission rights for each of the two years in the period ended December 31, 2024 are as follows:

		Ton (tCC)2-eq)	
	For 2023 (KAU23)	For 2024 (KAU24)	For 2025 (KAU25)	Total
<quantity></quantity>				
Beginning balance	4,029,791	5,120,725	4,870,725	14,021,241
Additional allocation and cancellation	1,481,073	-	-	1,481,073
Purchase	-	-	220,995	220,995
Sell	(1,073,177)	-	-	(1,073,177)
Submit emission rights	(4,218,056)	-	-	(4,218,056)
Carried over	(219,631)	219,631	-	-
Ending balance	-	5,340,356	5,091,720	10,432,076

			K	orean won in mill	ions		
		or 2023 (AU23)			or 2025 AU25)		Total
<book value=""></book>							
Beginning balance	Ν.	5,923	Ν	- \	-	\mathbf{N}	5,923
Additional allocation and cancellation		-		-	-		-
Purchase		-		-	5,923		5,923
Sell		(5,923)		-	-		(5,923)
Submit emission rights		-		-	-		-
Carried over		-		-	-		-
Ending balance	\mathbf{X}	-	Ν	- \	5,923	\mathbf{N}	5,923
U.S. dollar in thousands	\$	-	\$	- \$	4,029	\$	4,029

19.1.3 There are no emission permits provided as collateral as of December 31, 2024.

19.1.4 The Company did not hold greenhouse gas emission rights for short-term trading profits as of December 31, 2024.

19.2 Emission liabilities

19.2.1 The estimated quantity of the Company's greenhouse gas emissions as of December 31, 2024 is 4,825,109 tons (tCO2-eq), for the current compliance year 2024.

19.2.2 Changes in emission liabilities for the year ended December 31, 2024 are as follows:

		ĸ	(orean w	on in millior	ıs		U.S. dollar i thousands		
Beginning balance Reversal	Current		Nor	Non-current		Total		Total	
	Λ	2,945 (2,945)	\	5,750	Υ.	8,695 (2,945)	\$	5,915 (2,003)	
Ending balance	\mathbf{N}	-	\mathbf{N}	5,750	\mathbf{N}	5,750	\$	3,912	
U.S. dollar in thousands	\$	-	\$	3,912	\$	3,912			

20. Commitments and contingencies

20.1 Provision for contingencies

Changes in provisions for contingencies for the year ended December 31, 2024 are as follows: (Korean won in millions)

		ginning alance	In	crease	R	eversal		Used	Tra	nslation		Ending alance		cipal debt amount
Daewoo Corp. (EXIM India, etc.)	~	4,178	Υ.	1,947	~	-	~	-	N	561	~	6,686	Υ.	322,160
Provision for litigation		581		-		(581)		-		-		-		-
Provision for loss		17,143		7,139		(7,731)		(2,654)		1,473		15,370		-
	<u>\</u>	21,902	<u>\</u>	9,086	<u>\</u>	(8,312)	<u>\</u>	(2,654)	<u>\</u>	2,034	<u>\</u>	22,056	<u>\</u>	322,160
U.S. dollar in thousands	\$	14,899	\$	6,181	\$	(5,654)	\$	(1,805)	\$	1,384	\$	15,004	\$	219,156

20.1.1 Contingent liabilities carried over from Daewoo Corporation prior to the spin-off

On July 22, 2000, Daewoo Corporation, prior to the spin-off, approved a proposal to divide the company into one surviving company and two newly incorporated companies, which each company engages in the trade and construction sector, respectively. On December 27, 2000, the Company was newly incorporated as Daewoo International Corporation through a spin-off of Daewoo Corporation's trade sector.

IDBI, a creditor of Daewoo Motor India (DMIL), to which Daewoo Corporation provided debt guarantees, filed a lawsuit against DMIL, Daewoo Corporation, Daewoo Engineering & Construction and the Company in Delhi in May 2002 with regards to the disposition of assets and confirmation of the debt.

As of December 31, 2024, the Company has recorded \land 6,686 million (\$4,548 thousand) as provision for contingent losses by reasonably estimating the enforceability and amount of the lawsuit.

20.2 Pending litigations

As of December 31, 2024, the Company is a defendant in its pending lawsuits involving 13 claims (domestic: 4 claims and overseas: 9 claims). The total litigation value is $\$ 968 million (\$659 thousand) in Korea and $\$ 187,105 million (\$127,282 thousand) in foreign countries (USD 74,569 thousand, INR 4,469,396 thousand and PKR 124,775). The Company records $\$ 6,686 million (\$4,548 thousand), an amount expected to be paid in accordance with some litigation cases, as a provision for contingent losses. Excluding these, the final results of pending litigation cases cannot be reasonably predicted, so the impact of the litigation results is not reflected in the Company's financial statements. Meanwhile, as of December 31, 2024, there are 17 lawsuits pending in which the Company is the plaintiff.

20.3 Credit facilities

As of December 31, 2024, the Company has entered into an agreement with Woori Bank and others for the opening of L/C as follows: (Korean won in millions, USD in thousands)

Cradit lina

Description	Description	Currency	amount
Local L/C	Woori Bank and others	KRW	180,000
Import L/C	Woori Bank and others	USD	840,800
Export Bill Negotiation	Woori Bank and others	USD	1,540,680
Export Bill Negotiation without recourse	Woori Bank and others	USD	1,387,500
Credit line in Korean won	Woori Bank and others	KRW	350,000
Credit line in foreign currency	Woori Bank and others	USD	511,000
P bond and others	Woori Bank and others	USD	340,398
P bond and others	Woori Bank and others	KRW	49,973
Overdraft and others	Standard Chartered Bank Korea	KRW	5,000
Supply Chain Finance	Export-Import Bank of Korea	USD	120,000

20.4 Collateral

The Company has pledged 24 blank promissory notes and 18 blank checks as collateral to Korea Energy Agency for the contract performance guarantees and other purposes as of December 31, 2024.

20.5 Derivatives

20.5.1 Details of unsettled derivatives: (Korean won in millions)

		Unsettled contr	actual amount	Accumulated valuation		
Contract	Currency unit	Long position	Short position	gain(loss)		
Currency forwards	USD	557,112	1,165,255	(40,396)		
	EUR	71,278	868,852	20,618		
	JPY	185,888	331,847	5,113		
	CNY	91,736	18,195	(425)		
	THB	265	6,394	(37)		
	CAD	346	-	(2)		
	GBP	2,259	106,370	310		
	AUD	55,923	137,752	3,938		
	SGD	52	-	-		
	PLN	4,817	30,657	243		
				(10,638)		
Commodity futures	COPPER	5,735	19,916	670		
,	CORN	17,603	34,769	(1,391)		
	GASOIL	79	-	2		
	MARINE FUEL	711	-	3		
	NICKEL	54,925	137,283	11,165		
	PX	-	17,243	111		
	SOYBEAN	31,891	-	45		
	SOYBEAN MEAL	2,345	2,389	44		
				10,649		

Details of unsettled currency swaps as of December 31, 2024 are as follows: (Korean won in millions, USD in thousands, SGD in thousands, EUR in thousands and JPY in thousands)

Bank Payment		yment	F	Receipt	Expiration date	Interest rate	va	umulated aluation in (loss)
						Receive USD TERM 3M SOFR 3M +	117	
Woori Bank	KRW	131,100	USD	100,000	Jul. 28, 2025	1.50%	₩	16,867
Credit Agricole CIB	USD	50,936	SGD	68,000	Oct. 25, 2025	Receive SGD SORA + 1.55%		(1,530)
Credit Agricole CIB	KRW	2,281	EUR	1,733	Apr. 22, 2025	Receive Euribor(6M) + 0.86%		462
Credit Agricole CIB	KRW	32,710	EUR	23,748	Oct. 22, 2026	Receive Euribor(6M) + 0.86%		4,175
KB Bank	USD	76,427	SGD	102,000	Oct. 25, 2025	Receive SGD SORA + 1.55%		(2,382)
Korea Development								
Bank	KRW	3,419	EUR	2,600	Apr. 22, 2025	Receive Euribor(6M) + 0.86%		703
MUFG Bank Sumitomo Mitsui Banking	KRW	47,700	JPY	5,000,000	Jul. 15, 2025	Receive JPY 3M D-TIBOR+0.85%		(1,226)
Corporation	KRW	47,640	JPY	5,000,000	Jul. 15, 2025	Receive 0.9%		(1,389)
						Receive USD TERM 3M SOFR 3M +		
ING	KRW	149,817	USD	111,000	Jun. 25, 2027	1.15%		13,078
								28,758
U. S. dollar in thousan	ds						\$	19,563

As of December 31, 2024, the Company has entered into currency forward contracts and commodity futures contracts with financial institutions for the purpose of hedging foreign exchange risks related to foreign currency debt obligations and fair value risks associated with the purchase and sale of inventory assets.

20.5.2 Derivatives trading and valuation gains and losses

Changes in the book values of derivative financial assets (liabilities) for the year ended December 31, 2024 are as follows:

	Korean won in millions										
	Beginning balance		Settlement			luation in (loss)	Ending balance				
Currency forwards	\mathbf{N}	(3,953)	\mathbf{X}	670	\mathbf{N}	(7,355)	\mathbf{X}	(10,638)			
Commodity futures		6,322		(6,322)		10,649		10,649			
Firm commitment contracts		(16,638)		2,349		6,535		(7,754)			
Currency swap		315		-		28,444		28,759			
Options		(11,308)		8,790		2,518		-			
	\mathbf{N}	(25,262)	\mathbf{N}	5,487	\mathbf{N}	40,791	\	21,016			
U.S. dollar in thousands	\$	(17,185)	\$	3,733	\$	27,749	\$	14,297			

The Company has entered into product futures and other commitments for fair value hedges when hedging the exposure to changes in the fair value of firm sales and purchase contracts arising from fluctuations in product price, and applied fair value hedges using firm commitments as hedging methods and product futures and other commitments as hedging targets.

20.6 Guarantee obligations

20.6.1 Details of guarantees provided by the Company to certain creditors on behalf of associates/debtors as of December 31, 2024 are as follows: (Korean won in millions, U.S. dollar in thousands and Indonesian rupiah in millions)

	Limit a							
		-	1 currency	Korean won	Foreign currency		Korean won	Year of
Debtor	Creditor	an	nounts	equivalent	am	ounts	equivalent	expiration
PT. BIO INTI AGRINDO	Hana Bank							
	(Indonesia)	IDR	360,000	32,796	IDR	360,000	32,796	2025
	BTPN	IDR	542,400	49,413	IDR	542,400	49,413	2025
GOLDEN LACE POSCO								
INTERNATIONAL CO., LTD.	POSCO-ASIA	USD	13,200	19,404	USD	11,000	16,170	2025
GLOBAL KOMSCO DAEWOO	Hana Bank							
LLC.	(Bahrain)	USD	6,650	9,776	USD	6,300	9,261	2025
POSCO ASSAN TST STEEL	Citi Bank and							
INDUSTRY	others	USD	13,650	20,066	USD	13,650	20,066	2026
PT.POSCO INTERNATIONAL								
ENP								
INDONESIA	BNI	USD	750	1,103	USD	750	1,103	2027
POSCO INTERNATIONAL E&P								
Malaysia	SC, (Malaysia)	USD	5,000	7,350	USD	5,000	7,350	2025
POSCO INTERNATIONAL								
SINGAPORE								
PTE., LTD.					USD	-	-	
POSCO INTERNATIONAL								
DEUTSCHLAND GmbH					USD	18,719	27,517	2025
POSCO INTERNATIONAL								
AMERICA CORP.					USD	-	-	
POSCO INTERNATIONAL JAPAN								
CORP.					USD	6.371	9.365	2025
POSCO INTERNATIONAL						0,011	0,000	
MALAYSIA								
SDN, BHD.	BMG				USD		-	
POSCO INTERNATIONAL ITALIA	(Amsterdam)	USD	50,000	73.500				
SRI	(*1)				USD	-		
POSCO INTERNATIONAL	N 17				000	-	_	
MEXICO								
S.A. de C.V.					USD	_	_	
POSCO INTERNATIONAL					000	-	-	
AUSTRALIA								
HOLDINGS					USD	-	_	
POSCO INTERNATIONAL					030	-	-	
MEXICO								
E-MOBILITY					USD			
POSCO International POLAND					030	-	-	
E-MOBILITY Sp.z.o.o.					USD			
POSCO INTERNATIONAL					030	-	-	
MEXICO	Event Impact							
	Export-Import	LICE	27.000	20,000	LICE	27.000	20,800	2022
E-MOBILITY	Bank of Korea	USD	27,000	39,690	USD	27,000	39,690	2026 2025
T KRAKATAU ROBOO ENGOON	POSCO-ASIA	USD	4,055	5,960	050	3,379	4,967	2025
PT.KRAKATAU POSCO ENERGY	Shinhan Bank		40.000					
	(Indonesia)	USD	18,903	27,787	USD	6,301	9,262	2026
	POSCO-ASIA	USD	84,000	123,480	USD	35,000	51,450	2028
		IDR	902,400	82,209	IDR	902,400	82,209	
		USD	223,208	328,116	IDR	133,470	196,201	

20.6.1 Guarantees provided by the Company to certain creditors on behalf of associates/debtors as of December 31, 2024 are as follows: (Korean won in millions, U.S. dollar in thousands and Indonesian rupiah in millions) (cont'd)

(*1) As of December 31, 2024 and 2023, the Company's cash and cash equivalents amounting to $\ 36,882$ million (\$25,090 thousand) and $\ 57,201$ million (\$38,912 thousand), respectively, are restricted in use except for the purposes of financial agreements and collateral provisions.

20.7 Other commitments

20.7.1 Commitments to supplement funds for Korea Ambatovy Consortium (KAC)

The Company invested in the Ambatovy Nickel Project ("DMSA / ASMA") in Madagascar through Korea Ambatovy Consortium ("KAC"), which is composed of Korea Mine Rehabilitation and Mineral Resources Corporation ("KOMIR") and STX Co., Ltd. Sherritt International Corp., the operator, transferred part of the project shares to Sumitomo and Ambatovy Holdings Limited ("AHL") in December 2017, and in August 2020 and the remaining shares were transferred to Sumitomo and Ambatovy Holdings II Limited ("AHL2"). KAC has the rights and obligations for the 15.33% stake in the project held by AHL and AHL2.

20.7.2 Environmental restoration expenses of Peru Block 8 and termination of mining contract

The Operator entered into a contract on the ratio of paying for environmental restoration cost with former operators. However, as the cost of environment restoration is expected to increase due to the revision of the local environmental law, the former operator refused to pay, and the Company applied for an arbitration. As a result of the arbitration in June 2018, the former operator is obligated for 94% of the cost for the pollution-prone areas where the responsibility of the former operator has already been proven and areas where the responsibility for pollution is proven in the future. As the procedure to obtain approval from the Peruvian government is in progress, the environmental restoration cost to be borne by the Company, the other participant and the former operator has not yet been determined.

The Peruvian Environmental Supervision Authority (El Organismo de Evaluación Fiscalización Ambiental, OEFA) has been imposing fines for environmental pollution on operators from 2020, and the fines imposed are shared by the participating companies if the operator makes a claim to the participating companies in proportion to their shares. The operator is not responsible for the pollution and is taking legal action arguing that the Environmental Supervision Administration unreasonably demands restoration and imposes a fine, but the fine continues to be imposed.

Perupetro, a mining rights management agency under the Peruvian government, opposed the termination of the mining rights contract and filed an international arbitration against mining concession participants at the International Chamber of Commerce (ICC). And, in February 2023, the International Chamber of Commerce's arbitration tribunal notified an interim partial ruling acknowledging the liquidation of the operator and the resulting termination of mining rights in Peru Block 8, and in December, notified a partial ruling ordering the return of Peru Block 8 to Perupetro. Korean participating companies are continuing to respond by jointly appointing an arbitration agent. In addition, the Korean participating companies additionally initiated a separate international arbitration with the International Chamber of Commerce (ICC) to force the operator and its parent company to jointly bear environmental restoration obligations.

The Company recognizes loss provisions and restoration provisions respectively in relation to environmental pollution fines and restoration costs for Peru Block 8.

20.7.3 Transfer of contract status on ship purchase agreement

The Company operates the chartered ship. The Company, the ship owner, and the shipping company have entered into a ship purchase agreement, under which, the shipping company is obliged to pay the contract amount to the ship owner and take over the ownership of the ship from the ship owner at the end of the contract period due to the expiration or termination of the agreement. If the shipping company fails to fulfill its obligation to purchase ships, such as payment of the acquisition price of ships, the Company is obliged to take over the ship with the transfer of the shipping company's contractual obligations and rights. In December 2024, the ship purchase agreement was terminated earlier as the shipping company purchased one of the four chartered ships.

Details of the ship purchase arrangements concluded as of December 31, 2024 are as follows:

Ship	Ship owner	Shipping company	Arrangement period	tho Pur arrar	dollar in usands rchase ngement nount
Containership Heung-A Haiphong	D&M Shipping SA	Heung A Line Co., Ltd.	Dec. 29, 2014 - Mar. 16, 2025		7,700
Containership Heung-A Xiamen	D&F Shipping SA	Heung A Line Co., Ltd.	Feb. 5, 2015 - Mar. 17, 2025		7,700
Containership Heung-A Akita	D&S Shipping SA	Heung A Line Co., Ltd.	Mar. 5, 2015 - May 16, 2025		7,700
				\$	23,100

The Company records lease liabilities and lease receivables for charter-in and charter-out contracts, respectively.

20.7.4 Deferred Premium Agreement

In relation to the equity investment in AES Mong Duong Power Co., Ltd. located in Vietnam, the Company pays a certain percentage of dividends to AES Mong Duong Holdings B.V. when it receives dividends from AES Mong Duong Power Co., Ltd. A premium agreement is being concluded, and related costs are accounted for as paid commissions.

20.7.5 Capital investment agreement

In the case of basic capital investment obligation according to the investor agreement, investment obligation of disallowed investment cost, investment obligation of excess project cost, and loss of profits within the deadline in financial documents, the Company provides the obligation to provide funds for the burden of the investment obligation under the investor agreement signed with Samcheok Blue Power Co., Ltd. for the construction of Samcheok Thermal Power Plant. Of these, the basic capital commitment obligation of \250,495 million (\$170,405 thousand) was completed during 2021.

20.7.6 Long-term purchase contract

The Company has entered into a long-term natural gas purchase contract with Korea Gas Corporation to procure entire amount of the natural gas required for the operation of Incheon LNG combined generating Units 5 to 9.

20.7.7 Cash deficiency support

The Company has agreed upon to be replenish the entire facility loan amounting to $\$ 550,000 million (\$374,150 thousand) which is provided to NEH Co., Ltd. from the Industrial Bank of Korea and the Export-Import Bank of Korea in relation to the Gwangyang 2nd LNG Terminal project.

20.7.8 Supplier finance arrangement

The Company entered into a supplier finance arrangement for trade payables through digital supply chain factoring, and the carrying amount of the financial liabilities related thereto is as follows: (Korean won in millions)

		December 31, 2024				
		Korean won in millions		U.S. dollar in thousands		
Trade payable	\mathbf{X}	4,622	\$	3,144		

20.8 Assets provided as collateral

Details of assets provided as collateral in relation to borrowings as of December 31, 2024 are as follows: (Korean won in millions)

Collateral provided by	Assets provided as collateral	-	ollateral amount	Creditor	Reason for providing collateral
POSCO INTERNATIONAL	Property, plant and equipment (Land, Buildings, etc.)	\	366,212	Korea Development Bank, Nord LB and KfW-IPEX Bank	Raising facility funds and operating funds

21. Issued capital, capital surplus and other capital components

21.1 Details of issued capital as of December 31, 2024 are as follows (Korean won in millions, Korean won for Par Value amount):

	Number of shares authorized	Number of shares issued	Par value		Issue	ed capital	Paid-in capital in excess of par value (capital surplus)	
Ordinary shares	500,000,000	175,922,788	\mathbf{N}	5,000	\	879,614	\	517,586
U.S. dollar in thousands					\$	598,377	\$	352,099

21.2 Changes in the number of issued shares of the Company for each of the two years in the period ended December 31, 2024 are as follows:

		2024		2023				
	Number of shares issued	Treasury stock	Number of outstanding shares	Number of shares issued	Treasury stock	Number of outstanding shares		
Beginning	175,922,788	5,769,021	170,153,767	123,375,149	20,518	123,354,631		
Increase due to merger	-	-	-	52,547,639	-	52,547,639		
Acquisition of treasury stock	-	-	-	-	5,767,304	(5,767,304)		
Disposal of treasury stock		(290,720)	290,720		(18,801)	18,801		
Ending	175,922,788	5,478,301	170,444,487	175,922,788	5,769,021	170,153,767		

21.3 Details of capital surplus as of December 31, 2024 and 2023 are as follows:

		Korean wor	n in m	illions		S. dollar in housands
	Dec. 31, 2024			Dec. 31, 2023		ec. 31, 2024
Paid-in capital in excess of par value	Ν.	517,586	\mathbf{N}	517,586	\$	352,099
Loss on disposal of hybrid bonds		(429)		(429)		(292)
Other capital surplus		1,364,051		1,353,970		927,926
	<u>\</u>	1,881,208	\mathbf{N}	1,871,127	\$	1,279,733

21.4 Other capital components as of December 31, 2024 and 2023 are as follows:

		Korean wor	n in mi	llions		6. dollar in ousands
	Dec. 31, 2024 Dec. 31, 2023			Dec. 31, 2024		
Treasury stock	Υ.	(27,695)	\mathbf{N}	(29,164)	\$	(18,840)
Other capital adjustments		2,222		16,970		1,512
	<u>\</u>	(25,473)	\mathbf{N}	(12,194)	\$	(17,328)

21.5 Treasury stock

The Company holds its treasury stock for purposes such as stabilizing the stock price in accordance with the resolution of the Board of Directors. Changes in the treasury stock of the Company for each of the two years in the period ended December 31, 2024 are as follows:

	Number of Shares	(Ko	Amount orean won millions)	Amount (U.S. dollar in thousands)		
Beginning	5,769,021	\mathbf{N}	(29,164)	\$	(19,839)	
Acquisition of treasury stock	-		-		-	
Disposal of treasury stock	(290,720)		1,469		999	
Ending	5,478,301	\mathbf{N}	(27,695)	\$	(18,840)	

	2023							
	Number of Shares	(Ko	Amount orean won millions)	Amount (U.S. dollar in thousands)				
Beginning	20,518	\mathbf{N}	\ (423)		(288)			
Acquisition of treasury stock	5,767,304		(28,836)		(19,616)			
Disposal of treasury stock	(18,801)		95		65			
Ending	5,769,021	<u>\</u>	(29,164)	\$	(19,839)			

21.6 Hybrid bonds

For the year ended December 31, 2023, the Company acquired hybrid bonds through the business combination, and the hybrid bonds are bond-type hybrid securities classified as equity. For the year ended December 31, 2023, the entire amount of hybrid bonds amounting to $\$ 139,571 million (\$94,946 thousand) was repaid.

22. Accumulated other comprehensive income

Changes in equity instrument valuation gains and losses for each of the two years in the period ended December 31, 2024 are as follows:

	Korean won in millions					6. dollar in lousands
	2024		2023			2024
Beginning balance Decrease due to merger	Υ.	(36,931)	١	(13,107) (20,731)	\$	(25,123)
Loss on valuation of financial assets at FVOCI Reclassification due to disposal of financial		(17,286)		(4,476)		(11,759)
assets at FVOCI		42,621				28,993
Corporate tax effect		(6,212)		1,383		(4,225)
Ending balance	\mathbf{N}	(17,808)	\mathbf{N}	(36,931)	\$	(12,114)

23. Retained earnings

23.1 Details of retained earnings as of December 31, 2024 and 2023 are as follows:

	Korean wor	n in millions	U.S. dollar in thousands
	Dec. 31, 2024	Dec. 31, 2023	Dec. 31, 2024
Legal reserve (*1)	\ 109,266	∖ 92,222	\$ 74,331
Voluntary reserve (*2)	2,412,400	1,984,400	1,641,088
Unappropriated retained earnings	471,210	616,647	320,551
	<u>\ 2,992,876</u>	<u>\</u> 2,693,269	\$ 2,035,970

(*1) In accordance with the *Commercial Act* of the Republic of Korea, the Company is required to accumulate at least 10% of the dividend from cash dividends in the consolidated statement of financial position as reserve for profits until the balance reaches 50% of the paid-in capital. It can be used to transfer capital or to protect deficits.

(*2) The voluntary reserve for the Company is the full amount of the business expansion reserves.

23.2 The statements of appropriation of retained earnings for each of the two years in the period ended December 31, 2024 are as follows:

	Korean won in thousands					U.S. dollar		
		2024		2023		2024		
Unappropriated retained earnings:								
Unappropriated retained earnings carried forward from prior years	Υ.	1,158,038	\mathbf{X}	1,267,667	\$	787,781		
Remeasurement of net defined benefit liabilities (assets)		(8,520,007)		(12,323,160)		(5,795,923)		
Loss on disposal of equity securities		(32,358,047)		-		(22,012,277)		
Dividend on hybrid bonds		-		(4,816,038)		-		
Net income		510,929,797		632,518,505		347,571,290		
	\mathbf{X}	471,209,781	\mathbf{X}	616,646,974	\$	320,550,871		
Appropriations of retained earnings:								
Legal reserve	\mathbf{N}	26,418,896	\mathbf{N}	17,044,449	\$	17,972,038		
Business expansion reserves		-		428,000,000		-		
Dividends:								
Cash dividends		264,188,955		170,444,487		179,720,378		
	\mathbf{i}	290,607,851	\mathbf{i}	615,488,936	\$	197,692,416		
Unappropriated retained earnings to be carried forward to subsequent year	<u>\</u>	180,601,930	<u>\</u>	1,158,038	\$	122,858,455		

The expected date of appropriations of the above retained earnings for the year ended December 31, 2024 is March 24, 2025, and the final date of appropriations for the year ended December 31, 2023 is March 25, 2024.

23.3 Details of dividends declared for each of the two years in the period ended December 31, 2024 are as follows:

	Korean won in thousands					U.S. dollar
		2024		2023		2024
Dividends per share (Korean won and %)	\mathbf{X}	1,550(31%)	\mathbf{N}	1,000(20%)	\$	1.05(31%)
Number of shares		170,444,487		170,444,487		170,444,487
Dividends	\mathbf{X}	264,188,955	\mathbf{X}	170,444,487	\$	179,720,378

24. Revenue

24.1 Revenue from the contract with customers

Details of classification of sales except for rental revenue from investment properties of $\ 11,921$ million (\$8,110 thousand) for the year ended December 31, 2024 (2023: $\ 12,310$ million (\$8,374 thousand)) for each of the two years in the period ended December 31, 2024 are as follows:

24.1.1 Categorization of sales based on the geographical locations

		Korean wor		.S. dollar in housands			
		2024		2023	2024		
Domestic	\mathbf{X}	6,241,526	\mathbf{N}	7,678,224	\$	4,245,936	
Asia (excluding China)		10,843,349		10,017,601		7,376,428	
China		2,591,178		3,014,678		1,762,706	
Europe		2,906,428		2,908,776		1,977,162	
North America		2,393,516		2,043,491		1,628,242	
Others		2,400,821		2,862,261		1,633,212	
Total sales	<u>\</u>	27,376,818	\mathbf{N}	28,525,031	\$	18,623,686	

24.1.2 Categorization of sales based on the major product and services

	Korean won in millions					U.S. dollar in thousands		
	2024			2023	2024			
Steel	\mathbf{X}	19,765,637	\mathbf{N}	21,102,416	\$	13,446,012		
Energy		3,777,284		3,893,273		2,569,581		
Food material		3,808,927		3,527,760		2,591,107		
Others		24,970		1,582		16,986		
Total sales	<u>\</u>	27,376,818	\	28,525,031	\$	18,623,686		

24.1.3 Categorization of sales based on the type of transactions

		Korean wor	U.S. dollar in thousands				
	2024			2023	2024		
Export	\mathbf{N}	12,416,073	\mathbf{N}	12,574,872	\$	8,446,308	
Domestic		5,983,048		7,289,004		4,070,101	
Triangular (*1)		8,977,697		8,661,155		6,107,277	
Total sales	\mathbf{N}	27,376,818	\	28,525,031	\$	18,623,686	

(*1) Triangular transactions mean the transaction where the Company purchases products from a supplier in a country other than Korea and sells them to customers located oversea.

24.1.4 Categorization of sales based on the timing of revenue recognition

		Korean wor	U.S. dollar in thousands					
		2024 2023				2024		
Temporary sales	Υ.	23,909,547	\mathbf{N}	24,875,660	\$	16,264,998		
Sales for the period		3,467,271		3,649,371		2,358,688		
Total sales	<u>\</u>	27,376,818	\mathbf{N}	28,525,031	\$	18,623,686		

24.2 Information about key customers

There are no external customers accounting for more than 10% of the Company's sales for each of the two years in the period ended December 31, 2024.

24.3 Details of contract assets and liabilities arising from revenue from contracts with customers for each of the two years in the period ended December 31, 2024 are as follows:

		Korean won in millions 2024								tho	dollar in usands 2024
		Beginning balance				Increase (Decrease)		Ending balance		Endin	g balance
Contract assets Contract liabilities	Due from customers Advances received Unearned revenues	`	14,855 51,367 34,395	Ko	- - - vrean won	\ in mil	(11,485) 2,587 10,238	`	3,370 53,954 44,633		2,293 36,703 30,363 dollar in usands
		Beginning balance		202 Increase due to merger		23 Increase (Decrease)		Ending balance			2023 g balance
Contract assets Contract liabilities (*1)	Due from customers - global Advances received - global Unearned revenues - global Unearned revenues - energy	١	29,441 81,767 31,528 -	١	- - 6,121	\	(14,586) (30,400) 2,867 (6,121)	Υ.	14,855 51,367 34,395 -	\$	10,105 34,944 23,398

(*1) Due to the increase in POSCO Energy's unearned revenues from the merger in 2023, the increase and decrease in trading and energy were separated.

25. Expenses disclosed by nature

The classifications of expenses by nature for each of the two years in the period ended December 31, 2024 are as follows:

	Korean won in millions					.S. dollar in housands
		2024		2023		2024
Merchandise purchase amount	Ν.	25,196,726	\mathbf{N}	26,393,598	\$	17,140,630
Changes in inventory		264,905		242,839		180,207
Depreciation (*1)		143,639		137,995		97,714
Amortization		166,201		198,354		113,062
Water cost for electricity		27,788		24,735		18,903
Commissions		120,340		119,977		81,864
Transportation and storage costs		257,932		237,179		175,464
Others		329,691	231,211			224,280
	<u>\</u>	26,507,222	<u>\</u>	27,585,888	\$	18,032,124

(*1) Including the depreciation of investment property.

26. Selling and administrative expenses

Details of selling and administrative expenses for each of the two years in the period ended December 31, 2024 are as follows:

		Korean wor	llions	U.S. dollar in thousands		
		2024		2023		2024
Salaries	\mathbf{N}	197,690	\mathbf{N}	183,067	\$	134,483
Retirement benefits		17,328		13,062		11,788
Employee welfare		48,051		40,983		32,688
Travel		9,426		8,134		6,412
Communication		5,416		4,689		3,684
Utilities		127		127		86
Taxes and dues		4,096		4,448		2,786
Rents		13,466		13,237		9,161
Depreciation		7,084		6,450		4,819
Amortization		6,705		5,122		4,561
Depreciation of right-of-use assets		5,281		5,030		3,593
Repairs		1,163		790		791
Insurance		20,237		21,266		13,767
Entertainment		843		1,025		573
Advertisement		4,586		3,604		3,120
Packaging		5,385		2,893		3,663
Shipping		22,366		22,577		15,215
Commissions		108,396		107,684		73,739
Bad debt expenses (reversal)		(15,412)		(37,554)		(10,484)
Supplies expenses		574		617		390
Vehicles maintenance		2,139		3,033		1,455
Publication		412		547		280
Education and training		3,407		2,955		2,318
Sales promotional		2,352		2,224		1,600
Others		4,575		1,613	_	3,112
	$\overline{\mathbf{N}}$	475,693	\mathbf{N}	417,623	\$	323,600
		· · · · · ·				i

27. Finance income and costs

27.1 Details of finance income for each of the two years in the period ended December 31, 2024 are as follows:

		Korean wor	illions	U.S. dollar in thousands		
		2024		2023		2024
<finance income=""></finance>						
Interest income	\mathbf{X}	36,760	\mathbf{X}	47,337	\$	25,007
Financial guarantee income		1,308		784		890
Dividends income		129,673		158,119		88,213
Gains on foreign currency transactions		584,966		708,774		397,936
Gains on foreign currency translation		236,581		69,493		160,939
Gains on valuation of derivatives		162,515		46,209		110,554
Gains on settlement of derivatives		277,164		292,802		188,547
Gains on valuation of trade receivables		38		-		26
Gains on valuation of trade payable		-		1,867		-
Gains on valuation of financial assets at FVPL		3,175		6,528		2,160
Gains on disposal of financial assets at FVPL		7,811		4,863		5,314
	\mathbf{X}	1,439,991	\mathbf{X}	1,336,776	\$	979,586
<finance cost=""></finance>						
Losses on disposal of trade receivables	\mathbf{N}	60,919	\mathbf{X}	65,583		41,441
Interest expenses		199,414		190,978		135,656
Losses on foreign currency transactions		502,052		676,993		341,532
Losses on foreign currency translation		329,267		100,492		223,991
Losses on valuation of derivatives		121,723		89,587		82,805
Losses on settlement of derivatives		282,048		271,284		191,869
Losses on valuation on trade receivables		1,657		5,405		1,127
Losses on valuation on financial assets at FVPL		259		1,731		176
Losses on disposal of financial assets at FVPL		26		-		18
	$\overline{\ }$	1,497,365	\mathbf{X}	1,402,053	\$	1,018,615

27.2 Details of interest income for each of the two years in the period ended December 31, 2024 are as follows:

		Korean won in millions				
		2024		2023		2024
Interest income on cash equivalents	\mathbf{N}	14,174	\mathbf{N}	27,581	\$	9,642
Other interest income		22,586		19,756		15,365
	<u>\</u>	36,760	\mathbf{N}	47,337	\$	25,007

27.3 Details of interest expenses for each of the two years in the period ended December 31, 2024 are as follows:

	Korean won in millions					6. dollar in ousands
		2024		2023	2024	
Interest on borrowings and bonds	\mathbf{N}	194,196	\mathbf{N}	185,886	\$	132,106
Interest on lease liability		6,329		5,020		4,305
Interest on others		1,024		2,182		697
Less: amount included in the cost of qualifying assets		(2,135)		(2,110)		(1,452)
	\mathbf{N}	199,414	\mathbf{N}	190,978	\$	135,656

28. Other income and expenses

Details of other income for each of the two years in the period ended December 31, 2024 are as follows:

		Korean won	U.S. dollar in thousands				
		2024		2023	2024		
<other income=""></other>							
Commission income	\mathbf{N}	263	\mathbf{N}	169	\$	179	
Reversal of allowance for doubtful accounts		316		124		215	
Gain on disposal of lease liabilities		-		338		-	
Gain on disposal of intangible assets		241		144		164	
Gain on disposal of intangible assets		927		-		631	
Reversal of impairment loss of intangible asset		764		-		520	
Reversal of provisions		8,481		122		5,769	
Gain on disposal of investments in subsidiaries		13,837		28,595		9,413	
Gain from disposal of carbon emissions rights		-		7		-	
Miscellaneous income		9,894		3,897		6,730	
	\mathbf{N}	34,723	\mathbf{N}	33,396	\$	23,621	
<other expenses=""></other>							
Contribution to provisions for restoration	\mathbf{N}	2,098	\mathbf{N}	2,897	\$	1,427	
Other bad debt expenses		70,406		5,159		47,895	
Loss on disposal of property, plant and equipment		297		1,427		202	
Loss on impairment of property, plant and equipment		-		8,371		-	
Loss on disposal of intangible assets		13		33		9	
Donations		16,603		3,749		11,295	
Contingencies		10,683		3,740		7,267	
Loss on disposal of investments in subsidiaries and associates		105,283		37,368		71,621	
Impairment loss on investment in subsidiaries and associates		-		6,157		-	
Miscellaneous expenses		3,383		17,074		2,301	
	\	208,766	\	85,975	\$	142,017	

29. Income taxes

29.1	The major components of income tax expenses for each of the two years in the period ended
Decem	nber 31, 2024 are as follows:

		Korean wor	n in mi	llions		. dollar in ousands	
		2024		2023	2024		
Current income taxes	\mathbf{X}	144,334	\mathbf{N}	181,660	\$	98,186	
Changes in deferred income tax arising from temporary differences and others		(6,915)		(4,596)		(4,704)	
Tax deficit carryforwards and others		(1,871)		(3,197)		(1,273)	
Income tax charged directly to equity		3,622		26,788		2,464	
Income tax expenses	<u>\</u>	139,170	<u>\</u>	200,655	\$	94,673	

29.2 A reconciliation between income tax expenses at the effective income tax rates of the Company and income before income taxes at the statutory tax rate of the Republic of Korea for each of the two years in the period ended December 31, 2024 is as follows:

		U.S. dollar in thousands				
		2024		2023		2024
Accounting profit before income tax	\mathbf{N}	650,100	\mathbf{N}	833,173	\$	442,245
Tax at the statutory tax rate	\mathbf{N}	156,546	\mathbf{N}	204,785	\$	106,494
Adjustments:						
Non-taxable income		(22,206)		(21,815)		(15,106)
Non-deductible expenses		284		284		193
Tax credits		(63,809)		(78,470)		(43,407)
Others (*1)		68,355		95,871		46,500
Income tax expense	<u>\</u>	139,170	\mathbf{N}	200,655	\$	94,674
Effective income tax rates		21.41%		24.08%		21.41%

(*1) Including direct foreign taxes paid.

29.3 Details of income taxes charged directly to equity for each of the two years in the period ended December 31, 2024 are as follows:

		Korean wor	ons		. dollar in ousands		
		2024	:	2023	2024		
Loss (gain) on valuation of financial assets at FVOCI	\mathbf{X}	(6,212)	\mathbf{X}	1,383	\$	(4,226)	
Remeasurement loss on defined benefit liabilities		2,768		4,029		1,883	
Loss on disposal of financial assets at FVOCI		10,263		-		6,982	
Gain from disposal of treasury stock		(3,197)		(72)		(2,175)	
Business combination under common control		-		21,448		-	
	\	3,622	<u>\</u>	26,788	\$	2,464	

29.4 Changes in deferred tax assets and liabilities for each of the two years in the period ended December 31, 2024 are as follows: (Korean won in millions)

			2024		
	Beginning balance	Recognized in profit or loss	Recognized directly to equity	Merger effect	Ending balance
Valuation of derivatives	\ 5,381	\ (14,407)	<i>۲</i>	<i>۲</i>	\ (9,026)
Loss on impairment of investments	48,368	(16,632)	-	-	31,736
Equity in subsidiaries and associates	169,416	36,764	-	-	206,180
Provisions of retirement benefits	44,711	3,595	2,768	-	51,074
Retirement insurance deposits	(47,250)	(16,205)	-	-	(63,455)
Debt restructuring	(4,007)	19	-	-	(3,988)
Extraordinary loss	5,397	11	-	-	5,408
Allowance for doubtful accounts	30,959	8,284	-	-	39,243
Depreciation	94,982	5,971	-	-	100,953
Capitalized borrowing costs	(7,855)	3,313	-	-	(4,542)
Accrued expenses	15,372	4,188	-	-	19,560
Foreign currency translation	(517)	438	-	-	(79)
Equity instruments valuation at FVOCI	12,039	222	(6,212)	-	6,049
Financial guarantee liabilities	1,797	1,024	-	-	2,821
Borrowings with low interest rates	-	-	-	-	-
Contingent loans	17,593	6,676	-	-	24,269
Accrued revenue	(7,748)	1,219	-	-	(6,529)
Provisions	34,204	(2,481)	-	-	31,723
Treasury stock(merger of energy)	21,448	(1,244)	-	-	20,204
Others	34,541	(7,236)			27,305
	\ 468,831	\ 13,519	\ (3,444)	<u>-</u>	\ 478,906
Tax credit carryforwards (*1)	(75,153)	(3,160)		-	(78,313)
	∖ 393,678	\ 10,359	\ (3,444)	<u>\</u>	\ 400,593
U.S. dollar in thousands	\$ 267,808	\$ 7,047	\$ (2,343)	\$ -	\$ 272,512

						2023					
		eginning palance	Recognized in profit or loss		Recognized directly to equity		Mer	ger effect	Ending balance		
Valuation of derivatives	Ν.	217	N .	6,336	\mathbf{N}	-	N .	(1,172)	\mathbf{N}	5,381	
Loss on impairment of investments		48,368		-		-		-		48,368	
Equity in subsidiaries and associates		163,989		5,427		-		-		169,416	
Provisions of retirement benefits		31,274		1,137		4,029		8,271		44,711	
Retirement insurance deposits		(31,274)		(4,632)		-		(11,344)		(47,250)	
Debt restructuring		(4,007)		-		-		-		(4,007)	
Extraordinary loss		4,891		506		-		-		5,397	
Allowance for doubtful accounts		30,413		(7,108)		-		7,654		30,959	
Depreciation		75,574		4,678		-		14,730		94,982	
Capitalized borrowing costs		(10,902)		3,047		-		-		(7,855)	
Accrued expenses		17,079		(1,707)		-		-		15,372	
Foreign currency translation		640		473		-		(1,630)		(517)	
Equity instruments valuation at FVOCI		4,284		109		1,383		6,263		12,039	
Financial guarantee liabilities		1,888		(91)		-		-		1,797	
Borrowings with low interest rates		(60)		60		-		-		-	
Contingent loans		14,806		2,787		-		-		17,593	
Accrued revenue		8,289		19,580		-		(35,617)		(7,748)	
Provisions		11,295		(27,999)		-		50,908		34,204	
Treasury stock(merger of energy)		-		-		21,448		-		21,448	
Others		10,888		17,754		-		5,899		34,541	
	Ν.	377,652	\	20,357	\mathbf{X}	26,860	\	43,962	\mathbf{N}	468,831	
Tax credit carryforwards (*1)		(34,711)		(39,424)		-		(1,018)		(75,153)	
	<u>\</u>	342,941	\	(19,067)	\	26,860	\	42,944	\	393,678	
U.S. dollar in thousands	\$	233,293	\$	(12,971)	\$	18,272	\$	29,214	\$	267,808	

*1) As of December 31, 2024 and 2023, the amounts related to investments in subsidiaries and associates that are not recognized as deferred tax assets and liabilities are deductible temporary differences of $\319,386$ million (\$217,269 thousand) and $\305,005$ million (\$207,486 thousand), respectively.

29.5 The effect of uncertain income tax is considered in current tax assets and current tax liabilities.

29.6 The Global Anti-Base Erosion Model Rules (Pillar Two Model Rules) apply to multinational enterprises (MNEs) with annual revenue in excess of EUR 750 million per their consolidated financial statements. Under the Minimum Top-up tax subject to Pillar Two Model Rules, such taxes shall be paid to the authorities in the Jurisdiction where the parent company is domiciled. The Pillar Two Model Rules were adopted in the Republic of Korea where the Company is located at the end of 2023 and are applicable starting from January 1, 2024.

The Company does not recognize deferred tax assets and liabilities related to the Pillar Two income taxes and does not disclose the information related to deferred taxes by applying the temporary exception provisions for recognition and disclosure of deferred tax assets and liabilities related thereto. Meanwhile, the Company reviewed its corporate structure in consideration of the introduction of the Pillar Two legislation in various jurisdictions and found that the Pillar Two income tax has no impact on the financial statements.

30. Earnings per share

30.1 Earnings per share

Details of earnings per share for each of the two years in the period ended December 31, 2024 are as follows (Korean won in millions, except for per share amounts):

		Korean wor	n in m	illions		S. dollar in nousands		
		2024		2023	2024			
Profit for the year attributable to ordinary equity holders (*1) Weighted average number of ordinary	\	510,930	\	628,868	\$	347,571		
shares outstanding (*2) Basic earnings per share		170,411,495		170,149,543		170,411,495		
(Korean won, U.S dollar)		2,998		3,696		2.04		

(*1) The amount for the year ended December 31, 2023 is the amount after deducting the after-tax interest amount on hybrid bonds from the parent company's owner's net profit.

(*2) The weighted average number of ordinary shares outstanding used to calculate basic earnings per share is as follows:

	2024	2023
Number of shares issued	175,922,788	175,922,788
Weighted average number of treasury stock	(5,511,293)	(5,773,245)
Weighted average number of ordinary shares outstanding	170,411,495	170,149,543

30.2 Diluted earnings per share

Diluted earnings per share are consistent with basic earnings per share because there is no potential common stock that can be converted into common stock for each of the two years in the period ended December 31, 2024.

31. Fair value measurement

31.1 Fair value hierarchy

The following are the criteria for classifying fair value from Level 1 to Level 3, depending on how observable it is in the market.

- Level1 Quoted (unadjusted) prices in active markets for identical assets or liabilities
- Level2 Input variables for assets or liabilities observable either directly (e.g., price) or indirectly (e.g., derived from the price), except for the quoted prices included in Level
- Level3 Input variables for assets or liabilities that are not based on observable market data (unobservable inputs)

31.2 Assumption used for fair value valuation technique

The fair value of financial instruments that are traded in active markets is determined based on quoted market prices at the end of reporting period. These instruments are included in Level 1, mostly are classified into financial assets at fair value which are listed stocks.

For financial instruments not traded in an active market, the fair value is determined using appropriate valuation techniques. This valuation technique fully makes use of observable market information as possible and internal information at minimum. When every significant input variable required for measuring fair value of the instrument is observable, the instrument is classified into Level 2.

When one or more significant input variables are not based on observable market information, the instrument is classified into Level 3.

Valuation techniques used to measure fair values of instruments are:

- > quoted prices or dealer prices of similar instrument;
- present value discounted by forward exchange rate as the end of reporting period is used for fair value of derivative instrument; and
- > discounted cash flow and other techniques are used for other instruments.

Book values of instruments which are classified into same category with trade and other receivables are estimated as reasonable approximate values of fair value.

The Company considered the maturity interest rate of the Company in determining the fair value of the derivative financial assets, liabilities and bonds valued at Level 2 hierarchy.

31.3 Financial instruments by category

The carrying amounts and fair values of financial instruments of the Company as of December 31, 2024 and 2023 are as follows:

						December	31, 2024	ļ				. dollar in
		Korean won in millions										
	Вс	ook value	L	evel 1	vel 1 Level 2		Level 3		Total		Total	
<financial assets=""></financial>												
Financial assets at FVPL												
Trade and other receivables	\	39,445	\	-	\	39,445	\	-	\	39,445	\$	26,833
Long-term investment (*1)		310		-		-		310		310		211
Other financial assets		67,391		-		67,391		-		67,391		45,844
Derivative financial assets		119,862		-		119,862		-		119,862		81,539
Financial assets at FVOCI												
Equity instruments (*1)		37,270		7,282		-		29,988		37,270		25,354
Financial assets at amortized costs (*2)												
Cash and Cash equivalents		457,192		-		-		-		-		-
Trade and other receivables (*3)		4,532,346		-		-		-		-		-
Other securities		5,888		-		-		-		-		-
<financial liabilities=""></financial>												
Financial liabilities at FVPL												
Derivative financial liabilities	\	98,847	\	-	\	98,847	\	-	\	98,847	\$	67,243
Financial liabilities at amortized costs (*2)												
Trade and other receivables (*4)		2,273,175		-		-		-		-		-
Borrowings		1,497,235		-		-		-		-		-
Bonds		2,684,832		-		-		-		-		-

(*1) For some of the financial assets, the acquisition cost was measured at fair value because sufficient information was not available to measure fair value during the current period and there was no clear evidence of value changes for each of the two years in the period ended December 31, 2024.

(*2) In the case of financial assets and financial liabilities measured at amortized cost, the book value is similar to the fair value.

(*3) Trade and other receivables and long-term trade and other receivables include $\ 17,488$ million (\$11,896 thousand) of current portion of lease receivables and $\ 67,825$ million (\$46,139 thousand) of long-term lease receivables, respectively.

(*4) Trade and other payables and long-term trade and other payables include $\39,129$ million (\$26,618 thousand) of current portion of lease liabilities and $\62,231$ million (\$42,334 thousand) of long-term lease liabilities, respectively.

31.3 Financial instruments by category (cont'd)

	December 31, 2023											
		Korean won in millions										. dollar in ousand
	Book value		Level 1		Level 2		Level 3		Total		Total	
<financial assets=""></financial>												
Financial assets at FVPL												
Trade and other receivables	\	6,419	~	-	\	6,419	~	-	Ν.	6,419	\$	4,367
Long-term investment (*1)		610		-		-		-		-		-
Other securities (*1)		4,832		-		-		-		-		-
Other financial assets		146,760		-		146,760		-		146,760		99,837
Derivative financial assets		38,893		-		38,893		-		38,893		26,458
Financial assets at FVOCI												
Equity instruments (*1)		48,524		12,109		-		-		12,109		8,237
Financial assets at amortized costs (*2)												
Cash and Cash equivalents		588,745		-		-		-		-		-
Trade and other receivables (*3)		4,414,036		-		-		-		-		-
Other securities		13,408		-		-		-		-		-
<financial liabilities=""></financial>												
Financial liabilities at FVPL												
Derivative financial liabilities	Ν.	64,155	\	-	\	64,155	~	-	\	64,155	\$	43,643
Financial liabilities at amortized costs (*2)												
Trade and other receivables (*4)		2,508,109		-		-		-		-		-
Borrowings		1,398,329		-		-		-		-		-
Bonds		2,740,823		-		-		-		-		-

(*1) For some of the financial assets, the acquisition cost was measured at fair value because sufficient information was not available to measure fair value during the current period and there was no clear evidence of value changes for each of the two years in the period ended December 31, 2024.

(*2) In the case of financial assets and financial liabilities measured at amortized cost, the book value is similar to the fair value, so the fair value is not separately disclosed.

(*3) Trade and other receivables and long-term trade and other receivables include $\ 23,276$ million (\$15,834 thousand) of current portion of lease receivables and $\ 69,741$ million (\$47,443 thousand) of long-term lease receivables, respectively.

(*4) Trade and other payables and long-term trade and other payables include $\$ 41,033 million (\$27,914 thousand) of current portion of lease liabilities and $\$ 77,164 million (\$52,493 thousand) of long-term lease liabilities, respectively.

31.4. Financial income (loss) by category of financial instruments

The Company's financial income and losses by category of financial instruments for each of the two years in the period ended December 31, 2024 are as follows: (Korean won in millions)
31.4. Financial income (loss) by category of financial instruments (cont'd)

						Fin	ancia	l income (lo	oss)							
		est income enses) (*1)	e	Foreign xchange ain (loss)		isposal in (loss)		aluation in (loss)		vidend		thers		Total	con	Other prehensive income
<2024>																
Financial assets at FVPL	₩.	-	₩	-	₩	284,949	₩	165,469	₩	1	₩	-	₩	450,419	₩	-
Financial assets at FVOCI		-		-		-		-		301		-		301		(17,286)
Financial assets at																
amortized costs		36,760		434,743		(60,919)		-		-		-		410,584		-
Financial liabilities at FVPL		-		-		(282,048)		(123,380)		-		-		(405,428)		-
Financial liabilities at																
amortized costs		(199,414)		(436,110)		-		-		-		1,308		(634,216)		-
Total	₩	(162,654)	₩	(1,367)	₩	(58,018)	₩	42,089	₩	302	₩	1,308	₩	(178,340)	₩	(17,286)
U.S. dollar in thousands	\$	(110,649)	\$	(930)	\$	(39,468)	\$	28,632	\$	206	\$	890	\$	(121,320)	\$	(11,759)
-0000																
<2023>																
Financial assets at FVPL	₩.	42	₩	-	₩	292,803	₩	46,199	₩	1	₩	-	₩	339,045	₩	-
Financial assets at FVOCI		-		-		-		-		376		-		376		(4,476)
Financial assets at																
amortized costs		47,044		21,586		(60,720)		(598)		-		-		7,312		-
Financial liabilities at FVPL		-		-		(271,283)		(89,587)		-		-		(360,870)		-
Financial liabilities at																
amortized costs		(190,727)		(20,804)		-		1,867		-		784		(208,880)		-
Total	₩	(143,641)	₩	782	₩	(39,200)	₩	(42,119)	₩	377	₩	784	₩	(223,017)	₩	(4,476)
U.S. dollar in thousands	\$	(97,715)	\$	532	\$	(26,667)	\$	(28,652)	\$	257	\$	533	\$	(151,712)	\$	(3,045)
	_		_		_		_						_		_	

(*1) Amounts of above financial income and losses by category of financial instruments include income and losses related to lease liabilities.

32. Financial instruments risk management

32.1 Capital risk management

The purpose of the Company's capital management is to maintain an optimal capital structure to protect the ability to continue to provide benefits to shareholders and stakeholders as a continuing entity and to reduce capital costs. In order to maintain or adjust the capital structure, the Company applies policies such as adjusting dividends.

Capital structure of the Company is composed of net borrowings, which are borrowings less cash and cash equivalents and equity. For the year ended December 31, 2024, the Company maintains the same capital risk management policies as those for the year ended December 31, 2023. Details of the capital components managed by the Company as of December 31, 2024 and 2023 are as follows:

	Korean won in millio	ons <u>thousands</u>
	Dec. 31, 2024Dec. 3	31, 2023 Dec. 31, 2024
Total borrowings	∖ 4,182,068 ∖ 4	,139,152 \$ 2,844,944
Less: cash and cash equivalents	(457,192)	588,745) (311,015)
Net borrowings	<u>∖ 3,724,876</u> <u>∖ 3</u>	550,407 \$ 2,533,929
Total equity	<u> </u>	,394,884 \$ 3,884,637
Gearing ratio	65.23%	65.81% 65.23%

32.2 Financial risk management

The Company is exposed to market risk (foreign currency risk and interest rate risk), credit risk, and liquidity risk. The purpose of Company's financial risk management is to detect potential risk which could decrease the Company's profit and to eliminate, reduce and hedge such risk to an acceptable level. The Company uses derivative financial instruments for hedging special risk such as foreign currency risk. Financial risk management policy of the Company for the year ended December 31, 2024 is consistent with that for the year ended December 31, 2023

32.2.1 Market risk

Market risk is the risk that the fair value of financial instrument will fluctuate because of changes in market prices. Market prices comprise three types of risk: foreign currency risk, interest rate risk and other price risk.

32.2.1.1 Foreign currency risk

The Company is exposed to the risk of exchange rate fluctuations because it has transactions denominated in foreign currency. The book values of monetary assets and liabilities denominated in major foreign currencies other than functional currencies as of December 31, 2024 and 2023 are as follows:

				Korean wo	n in m	illions			U.S. dollar i	n thou	isands
		Dec. 3	1, 202	4		Dec. 3	1, 202	3	 Dec. 3	1, 202	4
		Asset		Liability		Asset		Liability	Asset		Liability
USD	\mathbf{i}	2,876,606	\mathbf{N}	3,173,703	\mathbf{i}	2,724,724	\mathbf{i}	2,908,720	\$ 1,956,875	\$	2,158,982
JPY		227,509		194,496		320,355		252,135	154,768		132,310
EUR		642,089		311,956		492,863		300,252	436,795		212,215
CNY		114,363		180,853		220,850		230,391	77,798		123,029

The effect that fluctuation in the exchange rate of 10% of the functional currency on each foreign currency has on profit or loss as of December 31, 2024 is as follows:

		Korean wor	n in mill	ions		U.S. dollar i	n thous	ands
	Inc	rease by 10%	Dec	rease by 10%	Inc	crease by 10%	De	crease by 10%
USD	Υ.	(29,710)	\mathbf{N}	29,710	\$	(20,211)	\$	20,211
JPY		3,301		(3,301)		2,246		(2,246)
EUR		33,013		(33,013)		22,458		(22,458)
CNY		(6,649)		6,649		(4,523)		4,523

32.2.1.2 Interest rate risk

The interest rate risk of the Company arises from borrowings and bonds. Due to short-term borrowings issued at floating interest rates, the Company is exposed to cash flow interest rate risk.

As of December 31, 2024, with all other variables remain constant, a change of 1% in the floating interest rate on borrowings will have an effect of $\ 15,915$ million (\$10,827 thousand) decrease or increase in the Company's income before income taxes.

32.2.2 Credit risk

Credit risk is the risk that counterparties will not meet its obligations under a financial instrument or customer contract, leading to a financial loss. The Company's exposure to the credit risk relates to operating and financial activities.

32.2.2.1 Trade and other receivables

It is the principle for the Company to conduct transactions only with those with sound financial status by performing credit verification procedures for all counterparties that desire credit transactions with the Company. In addition, the Company manages the balance of accounts receivable by continuously reevaluating credit ratings so that the level of the Company's exposure to the credit risk is maintained at an insignificant level.

32.2.2.2 Other assets

Credit risks associated with the Company's other assets which consist of cash, short-term deposits and short-term and long-term loans arise from the default by the counterparties. Maximum exposure to credit risks will be the book value of the other assets. The Company deposits cash and cash equivalents and short-term financial products at financial institutions such as Woori Bank, and deals with financial institutions with excellent credit ratings. So, credit risk from financial institutions is limited.

32.2.2.3 Maximum exposure to credit risk

The book value of a financial asset represents the maximum exposure to a credit risk. If a financial guarantee is provided, the maximum exposure to credit risk is the maximum amount due on the claims of the assured. For borrowing arrangements, the maximum exposure to credit risk is the total commitment amount. In addition, in the case of a borrowing agreement, the maximum exposure amount of credit risk is the balance of the applicable borrowing as of the end of the current year, and the limit of the agreement amount is detailed in Note 20.

32.2.2.4 Aging analysis of non-derivative financial instruments

The aging analysis of non-derivative financial instruments as of December 31, 2024 is as follows: (Korean won in millions)

						Pas	t due					
	No	ot Past due		Within 1 month		1 to 3 nonths		8 to 12 nonths		Over 12 months		Total
Trade and other receivables (*1) Other financial assets	\	4,334,871 110,859	\	198,951	\	48,340	\	41,588	\	156,697	\	4,780,447 110,859
	1	4,445,730	\mathbf{N}	198,951	1	48,340	\mathbf{N}	41,588	\	156,697	\mathbf{i}	4,891,306
U.S. dollar in thousands	\$	3,024,306	\$	135,341	\$	32,884	\$	28,291	\$	106,597	\$	3,327,419

(*1) Trade and other receivables and long-term trade and other receivables include #17,488 million (\$11,896 thousand) of current lease receivables and #67,825 million (\$46,139 thousand) of long-term lease receivables, respectively.

32.2.3 Liquidity risk

The Company establishes short and long-term capital management plans and analyzes and reviews cash flow budgets against actual cash outflows in order to match the maturity of financial liabilities and financial assets. The Company believes that it has sufficient cash inflows from operating activities and financial assets to redeem financial liabilities that become due.

32.2.3.1 The maturity analysis based on the maturity of the remaining contract of financial liabilities outstanding as of December 31, 2024 is as follows. The maturity amount is an undiscounted contractual cash flow that includes interest payments. (Korean won in millions)

	Within 1	year 1	to 5 years	Ove	er 5 years		Total
Trade and other payables (*1)	× 2,20 ⁻	1,529 \	76,795	\mathbf{X}	369	\mathbf{X}	2,278,693
Derivative financial liabilities (*2)	98	8,847	-		-		98,847
Borrowings and bonds	2,12	2,605	1,855,000		204,463		4,182,068
	∖ 4,42	2,981 \	1,931,795	\mathbf{N}	204,832	\mathbf{N}	6,559,608
U.S. dollar in thousand	\$ 3,00	8,831 \$	1,314,146	\$	139,341	\$	4,462,318

(*1) The Trade and other payables and the long-term trade and other payables include $\ 36,437$ million (\$24,787 thousand) of current portion of lease liabilities and $\ 70,411$ million (\$47,899 thousand) of long-term lease liabilities, respectively.

(*2) Derivative financial liabilities are settled on a net basis.

32.2.3.2 The maturity analysis based on the guarantee period of the financial guarantee contract as of December 31, 2024 is as follows: (Korean won in millions)

	Wit	hin 1 year	1 t	o 5 years	Over 5	years		Total
Financial guarantee contract (*1)	\mathbf{N}	156,839	\mathbf{i}	121,571	\mathbf{N}	-	\mathbf{i}	278,410
U.S. dollar in thousand	\$	106,693	\$	82,701	\$	-	\$	189,395

(*1) The Company provides payment guarantees and Cash Deficiency Support to its associates and other related parties. For further information, see Note 20.

33. Related party transactions

33.1 Details of related parties as of December 31, 2024 are as follows:

	Company Name
Parent	POSCO Holdings Inc.
Subsidiaries	DAEWOO INTERNATIONAL SHANGHAI WAIGAOQIAO CO. LTD., PT. BIO INTI AGRINDO, POSCO INTERNATIONAL VIETNAM CO., LTD., SUZHOU POSCO-CORE TECHNOLOGY CO., LTD., POSCO INTERNATIONAL GLOBAL DEVELOPMENT PTE. LTD., GOLDEN LACE POSCO INTERNATIONAL CO., LTD., POSCO SOUTH EAST ASIA PTE. LTD., POSCO INTERNATIONAL UKRAINE LLC., GRAIN TERMINAL HOLDING PTE. LTD., MYKOLAIV MILLING WORKS PJSC., POSCO INTERNATIONAL (THAILAND) CO., LTD., PT POSCO INTERNATIONAL INDONESIA, POSCO MOBILITY SOLUTION CO., LTD., POSCO INTERNATIONAL E&P MALAYSIA SDN. BHD., SENEX HOLDINGS PTY LTD, POSCO INTERNATIONAL MEXICO E-MOBILITY S.A DE C.V., ESTEEL4U, POSCO INTERNATIONAL AMERICA CORP., POSCO INTERNATIONAL DEUTSCHLAND GMBH, POSCO INTERNATIONAL JAPAN CORP., POSCO INTERNATIONAL SINGAPORE PTE. LTD., POSCO INTERNATIONAL ITALIA S.R.L., POSCO INTERNATIONAL CHINA) CO., LTD., POSCO INTERNATIONAL TEXTILE LLC., POSCO INTERNATIONAL AUSTRALIA HOLDINGS PTY. LTD., POSCO INTERNATIONAL TEXTILE LLC., POSCO INTERNATIONAL AUSTRALIA HOLDINGS PTY. LTD., POSCO INTERNATIONAL MEXICO S.A. DE C.V., POSCO INTERNATIONAL MALAYSIA SDN. BHD., POSCO INTERNATIONAL SHANGHAI CO., LTD., POSCO INTERNATIONAL INDIA PVT. LTD., POHANG SRDC CO., LTD., TNACHEON E&E, KOREA FUEI CEII, NEH CO., LTD., POSCO INTERNATIONAL INDIA PVT. LTD., POHANG SRDC CO., LTD., TNACHEON E&E, KOREA FUEI CEII, NEH CO., LTD., POSCO INTERNATIONAL INDIA PVT. LTD., POHANG SRDC CO., LTD., TOSCO INTERNATIONAL MYANMAR CORPORATION LIMITED., POSCO INTERNATIONAL POLAND E-MOBILITY SP. Z.O.O., etc.
Associates and joint ventures	POSCO MEXICO PROCESSING CENTER HOLDING LLC., HUNCHUN POSCO HMM INTERNATIONAL LOGISTICS CO., LTD, POSCO-MALAYSIA SDN. BHD., POSCO-ITPC S.P.A, YULCHON MEXICO S.A. DE C.V., HYUNSON ENGINEERING & CONSTRUCTION, POSCO-ESDC LTD., POSCO IJPC, Inco tech Inc., SHINPOONG DAEWOO PHARMA VIETNAM CO., LTD., Shanghai Lansheng DAEWOO Corp, Shanghai Waigaoqiao Free Trade Zone Lansheng Daewoo Int'I Trading Co., Ltd., GENERAL MEDICINES CO., LTD., KOREA LNG LTD., DMSA/AMSA, SOUTH-EAST ASIA GAS PIPELINE CO., LTD., GLOBAL KOMSCO DAEWOO LLC., Blue Ocean Recovery PEF No.1,Gyeonggi Green Energy Co., Ltd., Noeul Green Energy Co., Ltd., Samcheok Blue Power Co., Ltd., MONG DUONG FINANCE HOLDINGS B.V (*1), ECO ENERGY SOLUTION CO., LTD., AES MONG DUONG Power Co., LTD (*1)
Other related parties(*2)	POSCO, PT. KRAKATAU POSCO, POSCO-THAINOX, POSCO ASSAN TST STEEL INDUSTRY, POSCO STEELEON Co., Ltd., POSCO-CSPC, POSCO VST CO., LTD., POSCO FLOW CO., LTD., POSCO YAMATO VINA STEEL JOINT STOCK COMPANY, POSCO-MKPC, POSCO ASIA CO., LTD., POSCO-TNPC, POSCO-FOSHAN STEEL PROCESSING CENTER CO., LTD., POSCO VIETNAM HOLDINGS, POSCO-CTPC, POSCO Eco & Challenge Co., Ltd., ZHANGJIAGANG POHANG STAINLESS STEEL CO., LTD., POSCO-VIETNAM CO., LTD., COMPANHIA SIDERURGICA DO PECEM, POSCO MAHARASHTRA STEEL PVT. LTD., POSCO-IPPC, POSCO-ICPC, etc.

(*1) Investments in the associates and joint ventures marked above are reclassified as assets held for sale for the year ended December 31, 2024.

(*2) Other related parties are subsidiaries, associates, and joint ventures of POSCO Holdings Inc., the parent company.

33.2 Details of significant transactions with the related parties for each of the two years in the period ended December 31, 2024 are as follows: (Korean won in millions)

							2024					
				and other	8					se and other	8	
		Sales	0	thers		Total	F	Purchase		Others		Total
Parent company: POSCO Holdings Inc. (*1) (*2)	₩	47	₩	6	₩	53	₩	150	₩	6,499	₩	6,649
Subsidiaries: DAEWOO INTERNATIONAL SHANGHAI												
WAIGAOQIAO CO. LTD. PT. BIO INTI AGRINDO	₩	5,779 792	₩	2,076	₩	5,779 2,868	₩	54	₩	-	₩	54
POSCO INTERNATIONAL VIETNAM CO. LTD.		11,454		2,076		2,000		-		3.982		3,982
SUZHOU POSCO-CORE TECHNOLOGY COLTD.		18,073				18,073				3,902		3,902
POSCO INTERNATIONAL MYANMAR CORPORATION LIMITED		2				2				89		89
POSCO INTERNATIONAL GLOBAL DEVELOPMENT		-				-						
PTE.LTD. POSCO INTERNATIONAL POWER (PNGLAE)				1,338		1,338		-		-		-
LTD.(*3) GOLDEN LACE POSCO INTERNATIONAL		281		-		281		-		-		-
CO., LTD.				53		53		12,407		-		12,407
Tracheon E&E POSCO INTERNATIONAL UKRAINE, LLC.		288		2,301		2,301 288				176		176
GRAIN TERMINAL HOLDING PTE. LTD.		200		1.342		1.342		-		1/0		1/6
Korea Fuel Cell								-		1		1
POSCO INTERNATIONAL (THAILAND) CO., LTD.		75,128				75,128				2.381		2.381
PT. POSCO INTERNATIONAL INDONESIA		10		-		10		-		6,417		6,417
POSCO MOBILITY SOLUTION CO., LTD.				-		-		404,746		104		404,850
NEH Co., Ltd.		46,335		-		46,335		-		-		-
POSCO INTERNATIONAL E&P MALAYSIA												
SDN. BHD.		59		16		75		-		-		-
Shinan green energy Co., Ltd.				-		-		-		746		746
SENEX HOLDINGS PTY LTD		-		8,909		8,909		-		-		-
POSCO INTERNATIONAL MEXICO E-MOBILITY		30,930		120		31,050		-		-		-
ESTEEL4U		43		138		181		4,805		20		4,825
PT.KRAKATAU POSCO ENERGY		-		639		639		-		-		-
POSCO INTERNATIONAL AMERICA CORP.		2,208,226		-		2,208,226		123,456		5,375		128,831
POSCO INTERNATIONAL DEUTSCHLAND GMBH		1,099,399				1,099,399		-		1,097		1,097
POSCO INTERNATIONAL JAPAN CORP.		2,679,362				2,679,362		153,261 422,833		1,813		155,074 432,961
POSCO INTERNATIONAL SINGAPORE PTE. LTD.		2,147,958		-		2,147,958		422,833		10,128		
POSCO INTERNATIONAL ITALIA S.R.L. POSCO INTERNATIONAL (CHINA) CO.,LTD.		835,579 141,448		-		835,579 141,448		1,800		1,431 3,062		1,431 4,862
POSCO INTERNATIONAL (CHINA) COLLED.		2,945				2,945		8,391		44		8,435
POSCO INTERNATIONAL AUSTRALIA HOLDINGS PTY LTD		60				60		4,351				-
POSCO INTERNATIONAL MEXICO S.A. DE C.V.		174,589		-		174,589		-		7,217		7,217
POSCO INTERNATIONAL MALAYSIA SDN. BHD.		62,151		-		62,151		-		2,700		2,700
POSCO INTERNATIONAL SHANGHAI CO., LTD.		10,265		-		10,265		-		8,396		8,396
POSCO INTERNATIONAL INDIA PVT. LTD.		12		902		914		-		3,094		3,094
POHANG SRDC CO., LTD.		-		77		77		71		7,206		7,277
Associates and joint venture: POSCO MEXICO PROCESSING CENTER												
HOLDING LLC.	₩	409,924	₩	-	₩	409,924	₩	-	₩	-	₩	-
Gyeonggi Green Energy Co., Ltd.						-				5,259		5,259
POSCO-MALAYSIA SDN. BHD.		107,399				107,399		9,993		-		9,993
POSCO-ITPC S.P.A Noeul Green Energy Co., Ltd.		114,707		82		114,707 82		-		2.658		2.658
YULCHON MEXICO S.A. DE C.V.		1,279				1.279		-		2,000		2,000
POSCO-ESDC LTD.		1,215		89		1,2/3				1,307		1,307
POSCO JPC		287,584		-		287,584		16		1,001		16
Samcheok Blue Power Co., Ltd.		179,072		10,048		189,120						
GENERAL MEDICINES CO., LTD.		329				329		-				-
KOREA LNG LTD.				17,829		17,829		-		-		-
AES MONG DUONG Power Co., LTD		2,152		34,820		36,972		-		969		969
SOUTH-EAST ASIA GAS PIPELINE CO., LTD.				64,208		64,208		-		-		-
GLOBAL KOMSCO DAEWOO LLC.				26		26		32,814		-		32,814
Others:												
POSCO	₩	1,196,876	₩	2	₩	1,196,878	₩	10,298,864	₩	489,936	₩	10,788,800
PT. KRAKATAU POSCO		1,152,156		-		1,152,156		242,469		3,400		245,869
POSCO STEELEON Co., Ltd.		52,272		-		52,272		255,051		674		255,725
POSCO-THAINOX		180,070		-		180,070		66,978		-		66,978
POSCO VST CO. LTD.		190,558		-		190,558		46,747		1,182		47,929
POSCO FLOW CO., LTD.		-		-		-		124		237,503		237,627
POSCO-CSPC		206,566		-		206,566		-		-		-
POSCO INDIA PC		202,787		-		202,787		-		-		-
POSCO VIETNAM PC		186,266		-		186,266		-		-		-
POSCO-MKPC		175,191		-		175,191		-		-		-
Others		1,099,858		1,017		1,100,875		492,466		64,315		556,781
	¥	15,296,261	Ŧ	146,038	*	15,442,299	*	12,577,496	¥	879,189	₹′	13,456,685
U.S. dollar in thousands	\$	10,405,620	\$	99,348	\$	10,504,966	\$	8,556,120	\$	598,088	\$	9,154,208

33.2 Details of significant transactions with related parties for each of the two years in the period ended December 31, 2024 are as follows: (Korean won in millions) (cont'd)

BLADBOOK FLORE								2023					
Participanty: Image: Participanty Image: Partipanty Image: Partipanty <t< th=""><th></th><th></th><th></th><th>Sales</th><th>and other</th><th></th><th></th><th></th><th></th><th>Purchas</th><th>se and other</th><th>8</th><th></th></t<>				Sales	and other					Purchas	se and other	8	
PACCONSTRUM W 14 W 1. W 7.000 DMARMAN I			Sales	0)thers		Total	F	Purchase	(Others		Total
Building: International Structure													
Decomposition NTERNATIONAL SIMULTION V		₩	14	₩	-	₩	14	₩		₩	78,831	₩	78,831
WHACKANCOLOL, ID. W 1126 W 1126 W 1260					-								
POSCO NTERNATIONAL VETNAM CO., ITD. 3.069 - 3.27342 - - - POSCO NTERNATIONAL VETNAMAR 2 - 2 - - - POSCO NTERNATIONAL VETNAMAR 11,197 - 11,197 - <t< td=""><td></td><td>₩</td><td>11,285</td><td>₩</td><td>-</td><td>₩</td><td>11,285</td><td>₩</td><td>31,526</td><td>₩</td><td>-</td><td>₩</td><td>31,526</td></t<>		₩	11,285	₩	-	₩	11,285	₩	31,526	₩	-	₩	31,526
BUZPOU POBLO CORT TECHNOLOGY COLUD. 2/242 - 2/242 - - POBLO INTERNATIONAL JAVERD 2 - 2 - - - POBLO INTERNATIONAL JAVERD 1187 - - - - - CORPORTING LIMITED 122 - 2 -	PT. BIO INTI AGRINDO				1,842		1,842				-		-
POSCO NITERNATIONAL LIVENUMAR 2 - - CORPORTINATIONAL NOMER (INGLAC) (TD. 1,197 - 15,557 - 15,557 Tracheso CANTERNATIONAL NOMER (INGLAC) (TD. 1,197 - 15,557 - 15,557 Tracheso Tate - 2240 2240 - 6.6 - POSCO NITERNATIONAL LIVENAME LLC. 122 - 1.6 - - - 7.7	POSCO INTERNATIONAL VIETNAM CO., LTD.		3,609		-		3,609		-		4,162		4,162
CORPORATION LIMITED 2 - 2 · · POSCON TERNATIONAL LONGEN (INSLAG) (TD. 1.197 · · · · GOLD TERNATIONAL LONGANE LLC. 122 · 2020 · · · · OPOCO NETRINATIONAL LINGAME LLC. 122 · 202 · .			27,242		-		27,242		-		-		-
POSCO NTERNATIONAL POVER (MCLAR) LD. 1.187 - 1.187 - 1.187 - - - - - - - - - - - 1.187 - 1.187 - - 1.187 - - 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.187 1.182 <													
GOLUNIACE POSCO NTERNATIONAL - - 15.57 - 15.57 Trackmin Edit - 2.40 2.40 - - GRANT TERNATIONAL URANELLC, 122 - 1.527 - - GRANT TERNATIONAL URANELLC, 122 - - 1.562 1.10 MARCLAM MULING WORS SPLZ, - - 1.662 3.834 3.101 6.0 POSCO INTERNATIONAL URANELLC, DLTD, 1.5362 - 1.662 3.834 3.101 6.0 POSCO INTERNATIONAL USA MULTONAL DIAL MUCONEGO, LTD, 1.5866 - 1.666 7.997 7.997 POSCO INTERNATIONAL DIAL MUCONEGO 1.590 - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>													-
Transmitter · · · · · OPDCO INTERNATIONAL URANDAY LIC. LTD. ·			1,107		-		1,107						-
POSCO NTERNATIONAL USRAINE LLC. 122 . 122 . 122 . 6 GRAIN TERNATIONAL USRAINE LLC. .	CO., LTD.		-		-				15,537				15,537
GRAM TERNINAL HOLDNO PTE LTD. .	Triacheon E&E		-		2,400		2,400		-		-		-
MYCOLAV MILLING WORKS PSC. .<			122				122		-		86		86
Knore Fuel Cell 1 · 1 · 1 · 1 · 1 POSCO INTERNATIONAL INDUNCOL CD. D. 33.884 - 47.4 - 7.979 7.779 POSCO INTERNATIONAL INDUNCOL, ID. 18.980 - 19.380 - 1.929 POSCO INTERNATIONAL CE P MALAYSA 19.380 - - - - Shinan gene mengr Co. Ltd. 64 - - - - - POSCO INTERNATIONAL CE P MALAYSA 5.883 - 11.986 - </td <td></td> <td></td> <td>-</td> <td></td> <td>257</td> <td></td> <td>257</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td>			-		257		257		-		-		-
POSCO NTERNATIONAL (FUNAL NO) CO., LTD. 33.862 - 31.862 - 67.473 77.975 POSCO NTERNATIONAL LEP MALAYSA - 19.866 - 19.866 <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td><td>1,652</td></t<>					-		-		-				1,652
PT FORCO INTERNATIONAL INDONESA イイ4 ・ イチ4 ・ イチ4 ・ 7,779 ア,779 ア,779 F 77,799 F 77,799 77,778 77,778 75,799 77,778 77,778 72,723 72,800 73,800													78,677
POSCO MOBILITY SOLUTION CO, LTD. 19.866 - 19.866 192.867 19.868 192.867 19.868 NDH CA, Lud. 19.350 - 64 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3,634</td> <td></td> <td></td> <td></td> <td>6,735</td>									3,634				6,735
NH Co, Lid. 19.390 - 19.390 - - POSCO INTERNATIONAL RAP MALAYSIA 64 - 64 - - Shina HIO. 5.663 5.663 - - 90 Shina HIO. 5.663 5.663 - - 90 SA DE CV. 11.196 - 17.38 3.482 - 3.0 POSCO INTERNATIONAL MACCO E-MOBILITY 2 8.69 8.661 - - - 2.0 POSCO INTERNATIONAL MARCA CORP. 1.883.586 - 1.738 3.482 - 2.20 9.20					-				400.000				7,979
POSCO INTERNATIONAL BAP MALAYSA SIN & HO. 64 -<									102,029		1,002		104,211
SND. BHO. 64 - 64 - <t< td=""><td></td><td></td><td>19,330</td><td></td><td></td><td></td><td>19,330</td><td></td><td>-</td><td></td><td>-</td><td></td><td>-</td></t<>			19,330				19,330		-		-		-
Shinan green energy Co., Ltd. - - - - 50.00 SINDY HOURDS SPY LTD - 5.060 5.060 - - POSCO INTERNATIONAL MERCO E-MOBILITY - - - - - SINDY HOURDS SPY LTD 11,196 - 11,196 - - - POSCO INTERNATIONAL MERCA CORP. 2.8659 8.061 - <t< td=""><td></td><td></td><td>64</td><td></td><td>-</td><td></td><td>64</td><td></td><td>-</td><td></td><td>-</td><td></td><td>-</td></t<>			64		-		64		-		-		-
SINU VALDINGS PP UTD - 5.863 5.863 - - POSCO INTERNATIONAL MERICO E-MOBILITY 11,196 - 11,196 - - SA DE CV. 11,196 - 17,78 3,482 - - POSCO INTERNATIONAL MERICA CORP. 1,863,586 - 1,863,586 - 1,863,586 207,333 4,786 202,505 POSCO INTERNATIONAL MARICA CORP. 2,464,673 - 2,464,673 - 2,4246,473 - 2,425,573 918 200,300 2,005 300,200 2,005 300,200 2,005 300,200 2,005 300,200 2,005 300,200 2,005 300,200 2,005 300,200 2,005 300,200 2,005 300,200 2,005 300,200 2,005 300,200 3,0073 - 3,0073 - 3,0073 - 3,0073 - 3,0073 - 3,0073 - 3,0073 - 3,0073 - 3,0073 - 3,0073 - 3,0073 - <td></td> <td></td> <td>-</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>93</td> <td></td> <td>93</td>			-		1						93		93
POSCO INTERNATIONAL MERCIO E-MOBILITY SA DE CV. 11,196 - <					5.863		5.863						-
SADE C.V. 11,196 - - - ESTELAJ 1,738 - 1,738 3,442 - - 3,442 PDSCO INTERNATIONAL AMERICA CORP. 1,883,586 - 1,883,586 - 1,883,586 - 2,248,473 - 2,2065 2,206 2,206 2,206 2,206 2,206 2,206 2,206 2,206 2,206 2,207,303 4,798 2,206 2,206 2,206 2,206 2,206 2,206 2,206 2,206 2,207 2,208 2,200 2,200 2,208 2,200 2,208 2,207 2,208 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- Andrew - A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							- Andrew - A						
PT. KANALTAL POSCO ENERGY 2 8.659 6.651 - - POSCO INTERNATIONAL AMERICA CORP. 1.883,586 - 1.883,586 207,383 4,798 212, POSCO INTERNATIONAL INFANCIONE PLITD. 2.464,473 - 2.464,473 2.286,029 301,270 2.16 3020, POSCO INTERNATIONAL INFANCORE PLITD. 2.366,029 - 2.380,029 301,270 2.106 300,009 POSCO INTERNATIONAL INFANCORE PLITD. 1.330,73 - 1.33,073 - 3.309 30,009 30,009 30,009 30,009 30,009 30,009 30,009 30,009 - 3.372 3.372 3.372 3.372 3.372 3.372 3.372 3.332 9.0000 -			11,196				11,196						-
POSCO INTERNATIONAL AMERICA CORP. 1.883.886 - 1.883.886 227.383 4.786 2212 POSCO INTERNATIONAL DEUTSCHAD GMBH 868.231 - 888.231 - 2.248,473 222.737 916 202.0 POSCO INTERNATIONAL JAPAN CORP. 2.448,473 - 242.737 916 203.037 POSCO INTERNATIONAL LANS R.L P38,136 - - 2.273.03 - 2.202.03 2.02 2.22 POSCO INTERNATIONAL LANS R.L P38,136 - 788,136 - 2.273.03 - 2.273.03 - 2.202.03 2.210.5 2.202.02 2.210.5 2.202.02 2.210.5 2.202.02 2.210.5 2.202.02 - 3.302.02 - - - - - 3.202.02 - 3.317.2 2.202.02 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01 2.202.01	ESTEEL4U				-				3,492				3,492
POSED INTERNATIONAL DEUTSCHLAND GMBH 868231 - 2484,473 - 2484,473 - 2484,473 - 2484,473 3282,377 918 2433,333 POSED INTERNATIONAL INAL ARA CORE, PLITD. 2,366,029 - 2,366,029 - 2,266,029 - 2,266,029 - 2,266,029 - 2,266,029 - 2,266,029 - 2,266,029 - 2,266,029 - 2,266,029 - - 2,262,0175 - 2,366,029 - 2,266,029 - 2,266,029 - 2,262,0175 - 2,366,029 - - - 2,869,029 - - - 2,869,029 - - - 2,869,029 -	PT. KRAKATAU POSCO ENERGY		2		8,659		8,661		-				-
POSCO INTERNATIONAL JAPAN CORP. 2.444,473 - 2.446,473 282,737 918 2800 POSCO INTERNATIONAL SINGAPORP PTE LTD. 2.266,029 - 2.260,02 30,0270 2.165 30,00 POSCO INTERNATIONAL CHINAL SARLL 798,138 - - 3,009 30,00 POSCO INTERNATIONAL ALTALIA S.R.L 5,037 15,562 55 15,000 POSCO INTERNATIONAL ALISTRALIA 5,337 15,562 55 15,000 POSCO INTERNATIONAL ALISTRALIA 5,92 19,761 19,853 - - - POSCO INTERNATIONAL MALYSIN SIN BHD. 910,701 19,841 - 6,355 6,0 POSCO INTERNATIONAL MALYSIN SIN BHD. 11,002 - 14,478 6,04 13,814 14,4 POSCO INTERNATIONAL MALYSIN SIN BHD. 12 1,004 1,108 - 3,861 3,029 POSCO INTERNATIONAL MALYSIN SIN BHD. 12,004 1,002 - 4,00 0,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00	POSCO INTERNATIONAL AMERICA CORP.		1,883,586		-		1,883,586		207,383		4,798		212,181
POSCO INTERNATIONAL SINGAPORE PTE LTD. 2.386,029 - 2.386,029 301,270 2.165 300,0 POSCO INTERNATIONAL TALIA S.R.L 796,136 - 749,136 - 2,223 2,23 POSCO INTERNATIONAL TEXTILE LLC. 5.357 - 5.357 15.582 65 15,597 POSCO INTERNATIONAL STRALLA 92 19,781 19,833 - - - POSCO INTERNATIONAL MEDICO S.A DE C.V. 198,419 - 166,419 - 3,352 3,372 POSCO INTERNATIONAL SHANGHAU CO, LTD. 14,478 - 11,003 - - - 3,372 3,372 3,372 POSCO INTERNATIONAL SHANGHAU CO, LTD. 14,478 - 11,003 - 3,372 3,372 3,372 POSCO INTERNATIONAL SHANGHAU CO, LTD. 12 1,094 1,106 - 3,372 3,372 3,372 3,372 3,372 POSCO INTERNATIONAL SHANGHAU CO, LTD. 12,03 - 13,473 4,64 13,473 4,64 14,476 14,476	POSCO INTERNATIONAL DEUTSCHLAND GMBH		869,231		-		869,231		-		2,065		2,065
POSCO INTERNATIONAL ITALIA S.R.L 796,136 . 2,723 2,23 POSCO INTERNATIONAL (CHUNA) CO., LTD. 133,073 . 5,337 15,592 565 15,592 POSCO INTERNATIONAL MISTRALIA . . 5,337 19,683 . . . POSCO INTERNATIONAL MISTRALIA .	POSCO INTERNATIONAL JAPAN CORP.		2,446,473		-		2,446,473		262,737		918		263,655
POSCO INTERNATIONAL (CHINA) CO., LTD. 133,073 - 133,073 - 3,899 30 POSCO INTERNATIONAL TEXTLE LLC. 5,387 - 5,387 15,592 65 16,592 POSCO INTERNATIONAL TEXTLE LLC. 92 19,761 19,863 - - POSCO INTERNATIONAL MERCO S.A. DE C.V. 198,419 - 19,643 64 3,572 3,373 POSCO INTERNATIONAL MALAYSIA SON, BHD. 91,002 - 91,002 - 3,361 3,362 3,562 5,625	POSCO INTERNATIONAL SINGAPORE PTE. LTD.		2,366,029		-		2,366,029		301,270		2,105		303,375
POSCO INTERNATIONAL TEXTILE LLC. 5.357 15,592 55 15,592 55 15,592 POSCO INTERNATIONAL AUSTRALIA 92 19,761 198,649 - - - POSCO INTERNATIONAL MEXICO SA DE C.V. 198,419 - 198,419 - 6,335 6,6 POSCO INTERNATIONAL MALVISIA SON BHD. 91,002 - 91,002 - 3,372 3,33 POSCO INTERNATIONAL NALVISIA SON BHD. 91,002 - 14,678 504 13,641 14,474 POSCO INTERNATIONAL INDIA PVT_LTD. 12 1,094 1,108 - 3,072 3,372 3,372 POSCO INTERNATIONAL INDIA PVT_LTD. 12 1,094 1,108 - 3,078 10,01 4,01 POSCO MICO PROCESSING CENTER POSCO MICO PROCESSING CENTER - 7,76 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 <td>POSCO INTERNATIONAL ITALIA S.R.L.</td> <td></td> <td>798,136</td> <td></td> <td>-</td> <td></td> <td>798,136</td> <td></td> <td>-</td> <td></td> <td>2,723</td> <td></td> <td>2,723</td>	POSCO INTERNATIONAL ITALIA S.R.L.		798,136		-		798,136		-		2,723		2,723
POSCO INTERNATIONAL AUSTRALIA HOLDINGS PTY, LTD. 92 19,761 198,653 - - POSCO INTERNATIONAL MENCO S.A. DE C.V. 198,419 - 199,419 - 6,355 66 POSCO INTERNATIONAL MALYSIA SDN. BHD. 91,002 - 3,372 3,32 3,32 POSCO INTERNATIONAL INDIA PVT, LTD. 112 1,084 1,106 - 3,691 3,091 3,091 9,002 - 3,691 3,091 9,001 9,001 1,6478 5,04 10,614 1,4478 - - 3,091 3,091 9,001 9,001 1,001	POSCO INTERNATIONAL (CHINA) CO., LTD.		133,073		-		133,073		-		3,609		3,609
HOLDINGS PTY. LTD. 92 19,761 19,843 POSCO INTERNATIONAL MALAYSIA SDN. BHD. 91,002 - 919,6419 - 6,355 6,355 POSCO INTERNATIONAL MALAYSIA SDN. BHD. 91,002 - 91,002 - 3,031 3,031 POSCO INTERNATIONAL MALAYSIA SDN. BHD. 14,878 - 14,878 504 13,641 14,47 POSCO INTERNATIONAL MALAYSIA SDN. BHD. 12 1,094 1,108 - 3,691 3,091 3,01			5,357		-		5,357		15,592		55		15,647
POSCO INTERNATIONAL MENCO SA. DE C.V. 198,419 - 6,355 64, 3,372 POSCO INTERNATIONAL MALAYSIA SDN. BHD. 91,002 - 91,002 - 3,372 3,372 POSCO INTERNATIONAL MALAYSIA SDN. BHD. 14,878 504 13,641 14,47 POSCO INTERNATIONAL INDIA PVT., LTD. 12 1,094 1,108 - 3,991 3,00 POSCO INTERNATIONAL INDIA PVT., LTD. 12 1,094 1,108 - 3,991 3,00 POSCO MEXICO PROCESSING CENTER - - - - - 7,778 7,778 POSCO MEXICO PROCESSING CENTER - - - - - 50 POSCO MEXICO PROCESSING CENTER - - - - 7,778 7,778 7,778 POSCO MEXICO PROCESSING CENTER - - - - 50 50 50 50 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,778 7,21 10,21 10,21													
POSCO INTERNATIONAL MALAYSIA SDN. BHD. 91,002 91,002 3,372 3,372 3,372 POSCO INTERNATIONAL SHANGHAI CO., LTD. 14,878 14,878 504 13,841 14,478 POSCO INTERNATIONAL INDIA PUT., LTD. 12 1,094 1,106 3,991 30,991 3,991 3,991 3,991 3,991					19,761				-				-
POSCO INTERNATIONAL SHANGHAI CO., LTD. 14,878 - 14,878 504 13,841 14,474 POSCO INTERNATIONAL INDUR PVT., LTD. 12 1,094 1,106 - 3,691 3,0 POHANG SRDC CO, LTD. - 172 172 6,738 140 6,0 Associates and joint venture: - - 7,776 7,778 7,778 POSCO MENCO PROCESSING CENTER - - - 7,778 7,778 7,778 POSCO MENCO PROCESSING CENTER - - - 7,778 7,778 7,778 7,778 POSCO MENCO PROCESSING CENTER - - - 7,778 7,778 7,778 7,778 POSCO MENCO PROCESSING CENTER - - - 7,778 7,719 <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>6,355</td></t<>					-				-				6,355
POSCO INTERNATIONAL INDIA PVT., LTD. 12 1.094 1.108 - 3.691 3.091 POHANG SADC CO, LTD. - 172 172 6,738 140 6,60 Associates and joint venture: POSCO MENCO PROCESSING CENTER - - - - 7,778									504				3,372 14,145
POHANG SRDC CO., LTD. - 172 172 8,788 140 84 Associates and joint venture: POSCO MEXICO PROCESSING CENTER - - - - 7.776 7.776 POSCO MEXICO PROCESSING CENTER - - - - 7.776 7.776 7.7776 POSCO MALAYSIA SDN. BHD. 89,813 - 89,813 5.987 - 5.07 POSCO-ITPC S.P.A 78,469 - 7.0469 10.09 24 10.021 VULCHON MEXICO SA. DE C.V. 2.119 - 2.119 - 10.321 10.021 POSCO LIPC 295,244 - 295,244 - 295,244 13 - POSCO LIPC 295,244 - 295,244 13 - - - Mong Duong Finance Holdings B.V - 21106 128,440 - </td <td></td> <td></td> <td></td> <td></td> <td>1 004</td> <td></td> <td></td> <td></td> <td>504</td> <td></td> <td></td> <td></td> <td></td>					1 004				504				
Associates and joint venture: POSCO MEXICO PROCESSING CENTER HOLDING LLC. ₩ 330,289 ₩ - ₩ 330,289 ₩ - ₩ - ₩ - ₩ - ₩ ₩ Gyrenngi Green Energy Ca, Ltd. - - - - 7,776 7,776 POSCO-MALAYSIA SDN. BHD. 89,813 - 89,813 5,987 - 5,0 POSCO-THC S.P.A 78,469 - 78,469 10,09 24 10,021			12						6 738				3,691 6,878
POSCO MEDICO PROCESSING CENTER ₩ 30.289 ₩ ₩ 30.289 ₩ ₩ 30.289 ₩ ₩ 30.289 ₩ ₩ 30.289 ₩ ₩ ₩ 30.289 ₩ ₩ ₩ ₩ ₩ ₩ ₩ 30.289 ₩									4,1 55				4,414
Gyeonggi Green Energy Ca, Ltd. - - - 7,778 7,778 7,778 POSCO-MALAYSIA SDN. BHD. 89,813 - 89,813 5,967 - 5,4 POSCO-ITPC S.P.A 78,469 - 76,469 1,009 24 10,3 Noad Green Energy Ca, Ltd. 6,499 28 6,527 - 10,321 10,3 YULCHOM MEXICO S.A. DE C.V. 2,119 - 2,119 - - - POSCO-ESDC LTD. - 84 64 - 1,231 1,3 - POSCO UPC 295,244 - 226,244 - 226,244 - <													
POSCO-MALAYSIA SDN, BHD. 89,813 - 89,813 5,967 - 5,4 POSCO-ITPC S.P.A 78,469 - 78,469 1,009 24 10,021 Noad Green Energy C.a, Lid. 6,499 28 6,527 - 10,321 10,021 YULCHON MEXICO S.A. DE C.V. 2,119 - 2,119 - 1,231 10,021 POSCO-UPC . 84 84 - 1,231 1,121 1,121 POSCO UPC . . 84 84 - 1,231 1,121 1,121 Samcheck Blue Power Ca, Lid. . 118,420 10,020 128,440 - <td>HOLDING LLC.</td> <td>₩</td> <td>330,289</td> <td>₩</td> <td>-</td> <td>₩</td> <td>330,289</td> <td>₩</td> <td>-</td> <td>₩</td> <td>-</td> <td>₩</td> <td>-</td>	HOLDING LLC.	₩	330,289	₩	-	₩	330,289	₩	-	₩	-	₩	-
POSCO-ITPC S.P.A 78,469 - 78,469 1,009 24 1,0321 Noaul Green Energy Co., Lid. 6,499 28 6,527 - 10,321 10,321 YULCHON MENICO S.A. DE C.V. 2,119 - 2,119 - 1,231 10,321 POSCO LID. - 84 84 - 1,231 11,31 POSCO LIDC - 84 84 - 1,231 11,31 POSCO LIPC 295,244 - 295,244 13 - 1,31 Samcheck Blue Power Co., Lid. 118,420 10,020 128,440 - - - Samcheck Blue Power Co., LID. 1,354 428 1,762 - - - GENERAL MEDICINES CO., LID. 1,354 428 1,762 -	Gyeonggi Green Energy Co., Ltd.		-		-		-		-		7,776		7,776
Noad Green Energy Co., Ltd. 6,499 28 6,527 - 10,321 10,721 YULCHON MEXICO S.A. DE C.V. 2,119 - 2,119 - - - POSCO-ESDC LTD. - 84 84 - 1,231 1,331 POSCO-UPC 285,244 - 295,244 13 - - Samcheck Blue Power Co., Ltd. 118,420 10,020 128,440 - - - Mong Duong Finance Holdings B.V - 2,031 2,031 - - - GENERAL MEDICINES CO., LTD. 1,354 428 1,782 - - - KOREA LNG LTD. 1,354 428 1,782 - - - SOUTH-EAST ASIA GAS PIPELINE CO., LTD. 2,866 33,839 36,505 - - - GLOBAL KOMSCO DAEWOO LLC - - 59,295 59,295 - - 2,783 2,2783 2,2783 2,2783 2,2783 2,2783 2,2783 2,78	POSCO-MALAYSIA SDN. BHD.		89,813		-		89,813		5,987		-		5,987
YULCHON MEXICO SA. DE C.V. 2,119 - 2,119 - 2,119 - 2,119 - - - POSCO-ESDC LTD. - 84 84 - 1,231 1,31 1,31 1,31 1,31 1,31 1,31 1,31 1,31 - - 295,244 13 - <td< td=""><td>POSCO-ITPC S.P.A</td><td></td><td>78,469</td><td></td><td></td><td></td><td>78,469</td><td></td><td>1,009</td><td></td><td>24</td><td></td><td>1,033</td></td<>	POSCO-ITPC S.P.A		78,469				78,469		1,009		24		1,033
POSCO-ESDC LTD. - 84 84 - 1,231 1,231 POSCO LIPC 295,244 - 295,244 13 - Samcheck Blue Power Co., Ltd. 118,420 10,020 128,440 - - Mong Duong Finance Holdings B.V - 2,031 2,031 - - GENERAL MEDICINES CO., LTD. 1,354 428 1,782 - - KOREA LING LTD. 1,354 428 1,782 - - - KOREA LING LTD. 2,666 3,839 36,505 - - - - - - - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 - 28,431 -			6,499		28				-		10,321		10,321
POSCO LIPC 295,244 - 295,244 13 - Samcheck Blue Power Ca., Ltd. 118,420 10,020 128,440 - - Mong Duong Finance Holdings B.V - 2,031 2,031 - - GENERAL MEDICINES CO., LTD. 1,354 428 1,782 - - KOREA LNG LTD. 1,354 428 1,782 - - AES Mong Duong Power CO., LTD. 2,686 33,89 36,505 - - SOUTH-EAST ASIA GAS PIPELINE CO., LTD. 2,686 33,89 36,505 - - GLOBAL KOMSCO DAEWOO LLC. - - - 2,783 2,2 Others: - - - 2,783 2,7 Others: - - - 2,783 2,3 POSCO ¥ 1,510,023 ¥ 10,842,003 ¥ 418,732 ¥ 11,080,7 POSCO STEELEON Ca., Ltd. 210,862 - 210,862 76,843 - 75,8			2,119		-		2,119		-				-
Samcheck Blue Power Co., Ltd. 118,420 10,020 128,440 Mong Duong Finance Holdings B.V - 2,031 2,031 GENERAL MEDICINES CO., LTD. 1,354 428 1,782 KOREA LNG LTD. 1,354 428 1,782 AES Mong Duong Power CO., LTD. 2,866 33,839 36,505 SOUTH-EAST ASIA GAS PIPELINE CO., LTD. 2,866 33,839 36,505 GLOBAL KOMSCO DAEWOO LLC. - - - 2,863 2,863 2,863 2,863 2,863 2,863 2,863 2,863 2,864 2,863 2,864 2,864 2,863 2,864 2,864 2,864 2,864			-		84				-		1,231		1,231
Mong Duong Finance Holdings B.V - 2.031 2.031 - - GENERAL MEDICINES CO., LTD. 1,354 428 1,762 - - KOREA LNG LTD. - 21,106 21,106 - - AES Mong Duong Power CO., LTD. 2,666 33,639 36,505 - - SOUTH-EAST ASIA GAS PIPELINE CO., LTD. 2,666 59,295 - - - GLOBAL KOMSCO DAEWOO LLC. - 69,295 59,295 - - 2,66, Blue Ocean Recovery PEF No.1 - - - 2,763 2,7783 2,783 2,86, Others: - - - 938,818 256,673 1,291 2,264, POSCO STEELEON Co., Ltd. 210,862 - 210,862 76,843 - 75,475, POSCO VST CO. LTD. 243,129 - - - - 76,475,									13				13
GENERAL MEDICINES CO., LTD. 1,354 428 1,782 - - KOREA LNG LTD. - 21,106 21,106 - - - AES Mong Duong Power CO., LTD. 2,666 33,839 36,505 - - - SOUTH-EAST ASIA GAS PIPELINE CO., LTD. 69,295 59,295 - - - 26,6 GLOBAL KOMSCO DAEWOO LLC. - - - 28,431 - 26,6 Blue Ocean Recovery PEF No.1 - - - 2,763 2,763 2,763 Others: - - - - 28,818 256,673 1,291 2,264, POSCO STEELEON Co., Ltd. 210,862 - 210,862 76,843 - 76,108 POSCO THAINOX 61,106 - 61,106 221,916 169 2222,108			118,420						-				-
KOREA LNG LTD. - 21,106 21,106 - - AES Mong Duong Power CO., LTD. 2,666 33,639 36,505 - - SOUTH-EAST ASIA GAS PIPELINE CO., LTD. 59,295 59,295 - - - GLOBAL KOMSCO DAEWOO LLC. - - 26,431 - 26,6 Blue Ocean Recovery PEF No.1 - - 26,431 - 26,783 Others: - - - 26,8,818 25,673 12,91 26,8,100,22 POSCO STEELEON Co., Ltd. 210,862 - 210,862 75,843 - 75,91 POSCO THAINOX 61,106 - 61,106 221,918 169 2222,91									-				-
AES Mong Duong Power CO., LTD. 2,866 33,839 36,505 - - SOUTH-EAST ASIA GAS PIPELINE CO., LTD. 59,295 59,295 59,295 - - GLOBAL KOMSCO DAEWOO LLC. - - 2,863 38,605 - - Blue Ocean Recovery PEF No.1 - - 2,863 2,783 2,783 2,783 Others: - - W 1,510,023 W - W 1,510,023 W 10,842,003 W 418,732 W 11,080,793 POSCO W 1,510,023 W - - 938,818 255,673 12,914 28,411 POSCO STEELEON Co., Ltd. 210,882 - 210,882 75,843 - 75,813 POSCO THAINOX 61,106 - 61,106 221,918 169 2222,918			1,354						-				-
SOUTH-EAST ASIA GAS PIPELINE CO., LTD. - 59,295 - - GLOBAL KOMSCO DAEWOO LLC. - - 28,431 - 28,631 Blue Ocean Recovery PEF No.1 - - - 2,783 2;783 2;7 Others: - - - - 2,8431 - 2,863 2;5 POSCO ₩ 1,510,023 ₩ - ₩ 10,842,003 ₩ 418,732 ₩ 11,080; PT. KRAKATAU POSCO ₩ 1,510,023 ₩ - 938,818 255,673 1,291 256,873 1,291 256,973 12,916 268,91 POSCO STEELEON Co., Ltd. 210,862 - 210,862 76,843 - 75,843 - 72,924 POSCO VST CO. LTD. 243,129 - 243,129 - - - -									-				-
GLOBAL KOMSCO DAEWOO LLC. - - - 28,431 - 28,783 28,783 Blue Ocean Recovery PEF No.1 - - - 2,783 2;783 2;783 2;783 Others: - - - - - 2,783 2;793 2;793 2;783 2;793 2;			2,000						-				-
Blue Ocean Recovery PEF No.1 - - - 2,783 2,783 Others: POSCO ₩ 1,510,023 ₩ • ₩ 1,510,023 ₩ 10,642,003 ₩ 418,732 ₩ 11,080,7 PT. KRAKATAU POSCO 938,818 • 938,818 255,673 1,291 256,67 POSCO STEELEON Co., Lid. 210,862 • 210,862 75,843 • 75,1 POSCO-THAINOX 61,106 • 61,106 221,916 169 222,916 POSCO VST CO. LTD. 243,129 • • • • •					09,290		08,290		26,431				26,431
Others: POSCO ₩ 1,510,023 ₩ - ₩ 1,510,023 ₩ 10,642,003 ₩ 418,732 ₩ 11,060,7 PT. KRAKATAU POSCO 938,818 - 938,818 255,673 1,291 256,7 POSCO STEELEON Co., Ltd. 210,862 - 210,862 75,843 - 75,1 POSCO-THAINOX 61,106 - 61,106 221,916 169 222,1 POSCO VST CO. LTD. 243,129 - - - - -									20,401		2 783		2,783
POSCO ₩ 1,510,023 ₩ - ₩ 1,510,023 ₩ 10,642,003 ₩ 418,732 ₩ 11,060,7 PT. KRAKATAU POSCO 938,818 - 938,818 255,673 1,291 256,7 POSCO STEELEON Co., Ltd. 210,862 - 210,862 75,843 - 75,1 POSCO-THAINOX 61,106 - 61,106 221,916 169 222,1 POSCO VST CO. LTD. 243,129 - - - - -	-												
PT. KRAKATAU POSCO 938,818 - 938,818 255,673 1,291 256,75 POSCO STEELEON Co., Ltd. 210,862 - 210,862 75,843 - 75,0 POSCO-THAINOX 61,106 - 61,106 221,916 169 222,0 POSCO VST CO. LTD. 243,129 - - - -			1 510 023	-			1 510 023		10.642.003		418 732		11,060,735
POSCO STEELEON Co., Ltd. 210,862 - 210,862 75,843 - 75,175 POSCO-THAINOX 61,106 - 61,106 221,916 169 222,115 POSCO VST CO. LTD. 243,129 - 243,129 - -													256,964
POSCO-THAINOX 61,106 61,106 221,916 169 222,000 POSCO VST CO. LTD. 243,129 -													75,843
POSCO VST CO. LTD. 243,129 243,129											169		222,085
													-
									54,287		-		54,287
POSCO-CSPC 326 - 326 1,506 215,240 216,	POSCO-CSPC		326		-		326				215,240		216,746
POSCO INDIA PC 123,692 - 123,692 - 62,194 - 62,	POSCO INDIA PC		123,692		-		123,692		62,194		-		62,194
POSCO VIETNAM PC 177,230 - 177,230 - 75 -	POSCO VIETNAM PC		177,230		-		177,230		75		-		75
POSCO-MKPC 103,388 - 103,388 53,433 18 53,	POSCO-MKPC		103,388				103,388		53,433		18		53,451
	Others		1,491,953		213		1,492,166		259,114		81,060		340,174
₩ 14,305,019 ₩ 187,082 ₩ 15,072,111 ₩ 12,734,526 ₩ 834,280 ₩ 13,628,8		Ŧ	14,905,019	₩	167,092	Ŧ	15,072,111	¥	12,734,526	Ŧ	894,280	*	13,628,806
U.S. dollar in thousands \$ 10,133,469 \$ 113,868 \$ 10,253,137 \$ 8,662,343 \$ 608,354 \$ 9,271,2	U.S. dollar in thousands	\$	10,139,469	\$	113,668	\$	10,253,137	\$	8,662,943	\$	608,354	\$	9,271,297

33.2 Details of significant transactions with related parties for each of the two years in the period ended December 31, 2024 are as follows: (Korean won in millions) (cont'd)

(*1) In addition to the above transactions, dividends paid to POSCO Holdings Inc. for each of the two years in the period ended December 31, 2024 amount to #124,396 million (\$84,623 thousand) and #77,616 million (\$52,800 thousand), respectively.

(*2) For the year ended December 31, 2023, the Company acquired investment shares in NEH Co., Ltd. from POSCO Holdings for #69,553 million (\$47,315 thousand), and the transaction was included in other purchase amounts.

(*3) The amount before being excluded from subsidiaries.

33.3 Details of significant outstanding balances of receivables from and payables to the related parties as of December 31, 2024 and 2023 are as follows: (Korean won in millions)

			•	2024	-	
		Receivables (*1			Payables	
	Trade	Others	Total	Trade	Others	Total
Parent company:						
POSCO Holdings Inc.	Ν	- \ 364	\ 364	<i>\</i> -	∖ 6,664	∖ 6,664
Subsidiaries:						
DAEWOO INTERNATIONAL SHANGHAI						
WAIGAOQIAO CO. LTD.	∖ 1,892	۰ ·	\ 1,892	<i>\</i> -	۰ -	<i>\</i> -
PT. BIO INTI AGRINDO		- 39,271	39,271	-	179	179
POSCO INTERNATIONAL VIETNAM CO. LTD.	4,000	61	4,061	-	311	311
SUZHOU POSCO-CORE TECHNOLOGY CO.LTD.	1,714	-	1,714	-	-	-
POSCO INTERNATIONAL MYANMAR						
CORPORATION LIMITED			-	-	49	49
POSCO INTERNATIONAL GLOBAL						
DEVELOPMENT PTE.LTD.		- 221,862	221,862	-	-	-
GOLDEN LACE POSCO INTERNATIONAL						
CO., LTD.		- 5,370	5,370	-	31	31
POS-SEA PTE LTD		- 14,700	14,700	-	-	-
POSCO INTERNATIONAL UKRAINE, LLC.	543		5,643	_	2	2
GRAIN TERMINAL HOLDING PTE. LTD.	040	- 70,112	70,112	_	-	-
		- 882	882	642		642
POSCO INTERNATIONAL UKRAINE LLC.	25 022	- 002		042	188	188
POSCO INTERNATIONAL (THAILAND) CO., LTD.	25,023	-	25,023	-		
PT. POSCO INTERNATIONAL INDONESIA			-	-	753	753
POSCO MOBILITY SOLUTION CO., LTD.		- 282	282	100,801	342	101,143
NEH Co., Ltd.(夺)	5,545	-	5,545	-	-	-
POSCO INTERNATIONAL E&P MALAYSIA						
SDN. BHD.		- 15	15	-	6	6
Shinan green energy Co., Ltd.		- 62	62	-	-	-
SENEX HOLDINGS PTY LTD		- 137,077	137,077	-	-	-
POSCO INTERNATIONAL MEXICO E-MOBILITY	28,277	234	28,511	-	153	153
ESTEEL4U	4	-	4	417	82	499
PT.KRAKATAU POSCO ENERGY		- 1,400	1,400	-	863	863
POSCO INTERNATIONAL AMERICA CORP.	407,181	10,375	417,556	16,175	3,252	19,427
POSCO INTERNATIONAL DEUTSCHLAND GMBH	441,080	-	441,080	-	350	350
POSCO INTERNATIONAL JAPAN CORP.	233,874	11,197	245,071	8,932	1,010	9,942
POSCO INTERNATIONAL SINGAPORE PTE. LTD.	115,594	160	115,754	-	202	202
POSCO INTERNATIONAL ITALIA S.R.L.	264,058	-	264,058	-	87	87
POSCO INTERNATIONAL TALIA S.R.L. POSCO INTERNATIONAL (CHINA) CO.,LTD.	1,368	645	2,013	1,601	129	1,730
POSCO INTERNATIONAL TEXTILE LLC.	164	33,349	33,513	1,001	120	1,700
POSCO INTERNATIONAL AUSTRALIA HOLDINGS	104	55,545	55,515	-		-
PTY LTD	62		62			
		-		-	-	
POSCO INTERNATIONAL MEXICO S.A. DE C.V.	64,914	-	64,914	-	539	539
POSCO INTERNATIONAL MALAYSIA SDN. BHD.	14,240	-	14,240	-	112	112
POSCO INTERNATIONAL SHANGHAI CO., LTD.	1,887	5,768	7,655	-	1,203	1,203
POSCO INTERNATIONAL INDIA PVT. LTD.		- 18,767	18,767	-	353	353
POHANG SRDC CO., LTD.			-	-	821	821
Korea Fuel Cell			-	-	3	3
Associates and joint venture:						
POSCO MEXICO PROCESSING CENTER						
HOLDING LLC.	\ 31,399	\ -	\ 31,399	۰ -	\ -	\ -
DMSA/AMSA	(01,000	- 117,444	117,444	`	`	`
Gyeonggi Green Energy Co., Ltd.		- 10,706	10,706	-	567	567
	10.025	- 10,700		-	507	507
POSCO-MALAYSIA SDN. BHD.	19,635	-	19,635	-	-	-
POSCO-ITPC S.P.A	15,690		15,690	-	-	-
Noeul Green Energy Co., Ltd.		- 3,039	3,039	-	-	-
YULCHON MEXICO S.A. DE C.V.	402	-	402	-	-	-
POSCO-ESDC LTD.			-	-	103	103
POSCO IJPC	76,914	-	76,914	-	-	-
Samcheok Blue Power Co., Ltd. 워㈜		- 144	144	-	-	-
Shanghai Lansheng DAEWOO Corp	2,627	-	2,627	-	437	437
Shanghai Waigaoqiao Free Trade Zone Lansheng						
Daewoo Int'l Trading Co., Ltd.			-	-	721	721
GENERAL MEDICINES CO., LTD.	577	485	1,062	-	-	-
GLOBAL KOMSCO DAEWOO LLC.		- 1,719	1,719	100	12	112
GEODAL KONIGOO DALWOO LLO.		.,	.,. 10			=

33.3 Details of significant outstanding balances of receivables from and payables to the related parties as of December 31, 2024 and 2023 are as follows: (Korean won in millions) (cont'd)

							2024					
			Recei	vables (*1)					P	ayables		
		Trade	0)thers		Total		Trade	0	Others		Total
Others:												
POSCO	₩	35,186	₩	4,040	₩	39,226	₩	888,920	₩	38,829	₩	927,749
PT. KRAKATAU POSCO		493,048		-		493,048		16,884		13		16,897
POSCO INDIA PC		75,431		-		75,431		-		-		-
POSCO-TNPC		65,368		-		65,368		-		-		-
POSCO-ICPC		44,631		-		44,631		-		-		-
POSCO-MKPC		37,309		-		37,309		-		-		-
POSCO VIETNAM PC		34,960		-		34,960		-		-		-
POSCO-CSPC		30,890		-		30,890				-		-
POSCO ASSAN TST STEEL INDUSTRY		24,716		181		24,897		3,824		100		3,924
POSCO-Poland Wroclaw Processing Center												
Sp. z o. o.		19,726				19,726		-		-		-
Others		73,672		553		74,225		52,189		14,444		66,633
	*	2,693,601	₩	716,384	₩	3,408,965	ㅠ	1,090,485	₩	72,910	Ŧ	1,163,395
U.S. dollar in thousands	\$	1,832,382	\$	488,842	\$	2,319,024	\$	741,827	\$	49,599	\$	791,426

	2023											
			Receiv	vables (*1)					·		
		Trade	Oth	ers (*2)		Total		Trade	(Others		Total
Parent company:												
POSCO Holdings Inc.	Ν.	-	Ν.	163	\mathbf{N}	163	\mathbf{N}	-	\mathbf{N}	6,449	Ν.	6,449
Subsidiaries:												
DAEWOO INTERNATIONAL SHANGHAI												
WAIGAOQIAO CO., LTD.	\	1,404	Ν.	-	\mathbf{N}	1,404	\mathbf{N}	-	\mathbf{N}	-	Ν.	-
PT. BIO INTI AGRINDO		-		38,464		38,464		-		226		226
POSCO INTERNATIONAL VIETNAM CO., LTD.		10		54		64		-		234		234
SUZHOU POSCO-CORE TECHNOLOGY CO., LTD.		7,469		-		7,469		-		-		-
POSCO INTERNATIONAL MYANMAR												
CORPORATION LIMITED.		2		-		2		-		-		-
POSCO INTERNATIONAL GLOBAL												
DEVELOPMENT PTE. LTD.		-		525		525		-		525		525
POSCO INTERNATIONAL POWER (PNGLAE) LTD.		367		842		1,209		-		73		73
GOLDEN LACE POSCO INTERNATIONAL												
CO., LTD.		-		8,986		8,986		-		29		29
POSCO SOUTH EAST ASIA PTE. LTD.		-		12,894		12,894		-		-		-
POSCO INTERNATIONAL UKRAINE LLC.		207		5,079		5,286		-		2		2
grain terminal holding pte. Ltd.		-		6,344		6,344		-		51		51
MYKOLAIV MILLING WORKS PJSC.		-		-		-		563		-		563
POSCO INTERNATIONAL (THAILAND) CO., LTD.		3,380		1		3,381		-		244		244
PT POSCO INTERNATIONAL INDONESIA		9		-		9		-		473		473
POSCO MOBILITY SOLUTION CO., LTD.		-		-		-		110,384		3,110		113,494
NEH Co., Ltd.		1,913		-		1,913		-		-		-
POSCO INTERNATIONAL E&P MALAYSIA												
SDN, BHD.		-		22		22		-		1		1
Shinan green energy Co., Ltd.		-		40		40		-		-		-
SENEX HOLDINGS PTY LTD		-		121,451		121,451		-		-		-
POSCO INTERNATIONAL MEXICO E-MOBILITY												
S.A. DE C.V.		7,911		314		8,225		-		256		256
ESTEEL 4U		-		-		-		279		-		279
POSCO INTERNATIONAL AMERICA CORP.		398,741		58		398,799		3,875		1,332		5,207
POSCO INTERNATIONAL DEUTSCHLAND GMBH		324,618		-		324,618		-		1,893		1,893
POSCO INTERNATIONAL JAPAN CORP.		337,321		147		337,468		6,988		155		7,143
POSCO INTERNATIONAL SINGAPORE PTE. LTD.		177,769		1,591		179,360		77,360		209		77,569
POSCO INTERNATIONAL ITALIA S.R.L.		200,447		-		200,447		-		133		133
POSCO INTERNATIONAL (CHINA) CO., LTD.		28,672		580		29,252		-		244		244
POSCO INTERNATIONAL TEXTILE LLC.		487		41,437		41,924		-				
POSCO INTERNATIONAL AUSTRALIA		407		41,407		41,024						
HOLDINGS PTY. LTD.		98		-		98		-		-		
POSCO INTERNATIONAL MEXICO S.A. DE C.V.		48.157		_		48,157		_		651		651
POSCO INTERNATIONAL MALAYSIA SDN. BHD.		40,137		-		40,137		-		211		211
				-				-				
POSCO INTERNATIONAL SHANGHAI CO., LTD.		3,293		5,181		8,474		-		1,507		1,507
POSCO INTERNATIONAL INDIA PVT., LTD.		11		16,235		16,246		-		289		289
POHANG SRDC CO., LTD.		-		-		-		-		582		582

33.3	Details of significant outstanding balances of receivables from and payables to the related
parties	s as of December 31, 2024 and 2023 are as follows: (Korean won in millions) (cont'd)

						2023						
			Receivables (*		Payables							
		Trade	Others (*2)		Total	Trade		Others		Total		
Associates and joint venture:												
POSCO MEXICO PROCESSING CENTER												
HOLDING LLC.	₩	29,095	₩	. W	29,095	₩	-	₩	- ₩	-		
Gyeonggi Green Energy Co., Ltd.			8,450		8,450		-	149		149		
POSCO-MALAYSIA SDN. BHD.		18,756		-	18,756		75		-	75		
POSCO-ITPC S.P.A		1,819		-	1,819		-	61		61		
Noeul Green Energy Co., Ltd.			1,808		1,808		-		-	-		
YULCHON MEXICO S.A. DE C.V.		961		-	961		-		-	-		
POSCO LIPC		71,441		-	71,441		-		-	-		
Samcheok Blue Power Co., Ltd.		7,870			7,870		-		-	-		
Shanghai Lansheng DAEWOO Corp				-			-	383		383		
Shanghai Waigaoqiao Free Trade Zone Lansheng												
Daewoo Int'l Trading Co., Ltd.							-	633		633		
GENERAL MEDICINES CO., LTD.		807	426		1,233		-	78		78		
KOREA LNG LTD.		-	1,289		1,289		-		-	-		
DMSA/AMSA			103,016		103,016		-		-	-		
GLOBAL KOMSCO DAEWOO LLC.		-	2,177		2,177			38		38		
Blue Ocean Recovery PEF No.1				-				10		10		
Others:												
POSCO	₩	45,048	₩ 2,821	₩	47,869	₩	984,109	₩ 30,751	₩	1,014,860		
PT. KRAKATAU POSCO		557,931			557,931		7,067	201		7,268		
POSCO-CSPC		43,637			43,637		-			-		
POSCO-ICPC		51,645			51,645		-			-		
POSCO Eco & Challenge Co., Ltd.		37,701	557		38,258		-	7,780		7,760		
POSCO-TNPC		48,362			48,362		-			-		
POSCO-CTPC		7.773			7,773							
POSCO-FOSHAN STEEL PROCESSING												
CENTER CO., LTD.		17,503		-	17,503		-	65		65		
POSCO VIETNAM HOLDINGS		40,721			40,721		-		-	-		
POSCO ASSAN TST STEEL INDUSTRY		14,677	306		14,983		-	1,632	2 1,63			
Others		164,564	601		165,165	5 34,922		17,554	52,476			
	Ŧ	2,702,721	₩ 381,869	₩.	3,084,580	Ŧ	1,225,622	₩ 78,194	₩	1,303,816		
U.S. dollar in thousands	\$	1,838,586	\$ 269,768	\$	2,098,354	\$	833,756	\$ 53,193	\$	886,949		
						_						

(*1) Allowance for doubtful accounts for the above receivables as of December 31, 2024 and 2023 amounts to \ 190,409million (\$129,530 thousand) and \ 137,083 million (\$93,254 thousand), respectively.
(*2) Including amounts related to investment loans under contractual agreement, and its movements for the year ended December 31, 2024, are as follows:

				Ke	orean v	won in millioi	ns			
		eginning balance	In	crease	D	ecrease		Others		Ending palance
POSCO SOUTH EAST ASIA PTE. LTD.	\	12,894	\	-	\	-	\	1,806	\	14,700
PT. BIO INTI AGRINDO		37,417		-		(3,318)		4,175		38,274
SENEX HOLDINGS PTY LTD		121,451		10,698		-		4,903		137,052
POSCO INTERNATIONAL INDIA PVT. LTD.		16,190		-		-		2,268		18,458
GRAIN TERMINAL HOLDING PTE. LTD. POSCO INTERNATIONAL POWER (PNGLAE) LTD.		5,931		21,078		-		2,391		29,400
(*1)		-		9,136		(9,136)		-		-
	<u>\</u>	193,883	<u>\</u>	40,912	<u>\</u>	(12,454)	\	15,543	<u>\</u>	237,884
U.S. dollar in thousands	\$	131,893	\$	27,831	\$	(8,472)	\$	10,573	\$	161,826

(*1) The amount before being excluded from subsidiaries.

33.4	Details of fund transactions with the related parties for each of the two years in the period ended
Decem	nber 31, 2024 are as follows:

		Ко	rean v	von in millio		U.S. dollar in thousands					
		20	24			2023					
	In	vestment	Re	ecovery	Inv	vestment	Inv	/estment	Re	ecovery	
Subsidiaries:											
NEH Co., Ltd.	\mathbf{N}	115,700	\mathbf{N}	-	Ν.	124,992	\$	78,707	\$	-	
POSCO INTERNATIONAL E&P											
MALAYSIA SDN. BHD.		5,501		-		6,822		3,742		-	
SENEX HOLDINGS PTY LTD		247,427		-		2,799		168,318		-	
POSCO INTERNATIONAL MEXICO E- MOBILITY S.A DE C.V.		33,947		-		-		23,093		-	
PT POSCO INTERNATIONAL E&P INDONESIA		15,072		-		1,848		10,253		-	
POSCO INTERNATIONAL E&P USA											
Inc.		1,514		1,390		983		1,030		946	
POSCO INTERNATIONAL POLAND											
E-MOBILITY SP. Z.O.O.,		37,170		-		-		25,286		-	
Korea Fuel Cell		-		60,000		-		-		40,816	
Investments in associates and joint											
venture:											
SOUTH-EAST ASIA GAS PIPELINE											
CO., LTD.	\	-	1	28,667	\	-	\$	-	\$	19,501	

33.5 Key management personnel compensation

Compensations for key management personnel for each of the two years in the period ended December 31, 2024 are as follows:

		Korean woi	n in mil	llions	. dollar in ousands
		2024		2023	 2024
Short-term employee benefits	Υ.	24,378	\mathbf{N}	24,278	\$ 16,584
Long-term employee benefits		17		12	12
Retirement benefits		2,417		1,688	 1,644
	Ν.	26,812	\mathbf{N}	25,978	\$ 18,240

33.6 Guarantees provided to the related parties

Guarantees provided to the related parties as of December 31, 2024 and 2023 are disclosed in Note 20.6.

34. Statement of Cash Flows

34.1 Changes in assets and liabilities resulting from operating activities for each of the two years in the period ended December 31, 2024 are as follows:

	K		U.S. dollar in
		n in millions	thousands
	2024	2023	2024
Reconciliation of profit for the year to net cash flows	`)	^
Depreciation Amortization	\ 140,796	\ 135,153	\$ 95,780
	166,201	198,354	113,062
Depreciation of investment properties	2,843	2,843	1,934
Retirement benefits	20,224	14,465	13,758
Reversal of Allowance for Doubtful Accounts	(15,412)	(37,554)	(10,484)
Interest expenses	199,414	190,978	135,656
Loss on valuation of financial assets at FVPL	259	1,731	176
Loss on disposal of financial assets at FVPL	26	-	18
Loss on disposal of investment of subsidiaries and associates	-	6,157	-
Gain on disposal of investment of subsidiaries and associates	(13,837)	(28,595)	(9,413)
Impairment loss on investment in subsidiaries and associates	105,283	37,368	71,621
Loss on foreign currency translation	329,267	100,492	223,991
Loss on settlement of derivatives	-	3,309	-
Loss on valuation of derivatives	123,380	94,992	83,932
Reversal of other allowance for doubtful accounts	(316)	(124)	(215)
Other bad debt expenses	70,406	5,159	47,895
Loss on disposal of property, plant and equipment	297	1,427	202
Impairment loss on property, plant and equipment	-	8,371	-
Loss on disposal of intangible assets	13	33	9
Impairment loss on intangible assets	(764)	-	(520)
Income tax expense	139,170	200,655	94,673
Loss on valuation of inventories	2,530	1,051	1,721
Other expenses	120,968	94,630	82,291
Gain on valuation of financial assets at FVPL	(3,175)	(6,528)	(2,160)
Interest income	(36,760)	(47,337)	(25,007)
Dividends income	(129,673)	(158,119)	(88,213)
Gain on foreign currency translation	(236,581)	(69,493)	(160,939
Gain on disposal on financial assets at FVPL	(7,811)	(4,863)) (5,314)
Gain on settlement of derivatives	(1,936)	(3,633)	(1,317)
Gain on valuation of derivatives	(162,553)	(48,076)	(110,580)
Gain on disposal of property, plant and equipment	(241)	(144)	(164)
Gain on disposal of intangible assets	(927)	-	(631)
Reversal of loss on valuation of inventories	(1,322)	(13,613)	(899)
Financial guarantee income	(1,308)	(784)	(890)
Other income	(8,481)	(128)	(5,769)
Stock compensation cost		16,970	-
	<u>\</u> 799,980	<u>\ 695,147</u>	\$ 544,204

34.1 Changes in assets and liabilities resulting from operating activities for each of the two years in the period ended December 31, 2024 are as follows: (cont'd)

	Korean wor	n in millions	U.S. dollar in thousands
	2024	2023	2024
Changes in operating assets and liabilities:			
Trade receivables	141,720	(117,905)	96,408
Other current receivables	(5,619)	38,747	(3,822)
Other current assets	(79,143)	(10,143)	(53,839)
Inventories	30,602	60,309	20,818
Derivative Liabilities	3,304	(17,246)	2,248
Other non-current assets	(3,767)	3,333	(2,563)
Trade payables	(386,852)	22,650	(263,165)
Other current payables	164,021	(14,118)	111,579
Other current liabilities	12,816	(24,547)	8,718
Other non-current payables	(2,573)	(5,469)	(1,750)
Provisions	(60,007)	(92,067)	(40,821)
Retirement benefits paid	(90)	(125)	(61)
Increase in plan assets	(40,500)	(29,100)	(27,551)
	\ (226,088)	∖ (185,681)	\$ (153,801)

34.2 Changes in liabilities arising from financing activities for each of the two years in the period ended December 31, 2024 are as follows: (Korean won in millions)

								2024						
									Non-ca	sh flows				
		eginning balance		se due to erger		sh flows arising om financing activities	Rec	lassifi-cation		ange rate	(Others	End	ing balance
Current portion of lease liabilities	₩	41,033	₩	-	₩	(35,914)	₩	32,558	₩	3,200	₩	(1,748)	₩	39,129
Short-term barrowings		610,294		-		(67,156)		-		19,336				562,474
Current partian of long-term														
borrowings		106,411		-		(105,291)		406,975		35,389		(1,088)		442,396
Current partian of bands		876,709		-		(877,380)		1,027,215		89,980		1,211		1,117,735
Long-term lease liabilities		77,164		-		-		(32,558)		6,527		11,098		62,231
Bonds		1,864,114		-		701,936		(1,027,215)		26,939		1,323		1,567,097
Long-term borrowings		681,624		-		162,623		(406,975)		31,646		23,448		492,366
	Ŧ	4,257,349	₩	-	₩	(221,182)	푺	-	Ŧ	213,017	₩	34,244	₩	4,283,428
U.S. dollar in thousands	\$	2,896,156	\$	-	\$	(150,464)	\$	-	\$	144,910	\$	23,295	\$	2,913,897

									Non-ca	sh flows				
		eginning balance		ease due to merger		h flows arising om financing activities	Reck	assifi-cation		ange rate ctuation		Others	Endi	ng balance
Current portion of lease liabilities	₩	49,928	₩	4,038	₩	(64,904)	₩	48,253	₩	(232)	₩	3,950	₩	41,033
Short-term barrowings		1,037,974		17,742		(440,981)		-		(4,441)				610,294
Current portion of long-term														
borrowings		72,012		336,087		(408,694)		102,886		4,120		-		106,411
Current partian of bands		399,841		199,907		(600,000)		872,158		4,378		425		876,709
Long-term lease liabilities		23,282		-		-		(48,253)		(1,239)		103,374		77,164
Bonds		1,363,593		958,403		398,613		(872,158)		13,448		2,215		1,864,114
Long-term borrowings		508,553		262,234		(3,023)		(102,886)		6,077		10,669		681,624
	Ŧ	3,455,183	₩	1,778,411	₩	(1,118,989)	₩	-	Ŧ	22,111	₩	120,633	₩	4,257,349
U.S. dollar in thousands	\$	2,350,465	\$	1,209,803	\$	(761,217)	\$	-	\$	15,041	\$	82,063	\$	2,896,155

2023

34.3 Major investing activities and financing activities that are accompanied by non-cash transactions for each of the two years in the period ended December 31, 2024 are as follows:

		Korean won	in mil	lions	 . dollar in ousands
		 2024			
Reclassification of non-current portion of accounts receivable	N	18,268	\mathbf{x}	-	\$ 12,427
Reclassification of increase in plan assets		(9,079)		1,519	(6,176)
Actuarial gains and losses remeasurement component		11,288		(16,352)	7,679
Reclassification of non-current portion of short-term loans		19,000		-	12,925
Reclassification of current portion of long- term loans		3,318		10,692	2,257
Other accounts payable related to the acquisition of property, plant and equipment and intangible assets		11,147		34,770	7,583
Reclassification of financial assets at FVOCI as investments in associates		-		(14,006)	-
Reclassification of current portion of long- term borrowings		406,975		102,886	276,854
Reclassification of current portion of long- term bonds		1,027,215		872,158	698,786
Reclassification of current portion of lease receivables		15,909		25,766	10,822
Reclassification of current portion of lease liabilities		32,558		48,253	22,148
Recognition of right-of-use assets and lease liabilities through acquisition		10,473		107,324	7,124

In connection with the merger and absorption of POSCO Energy Co., Ltd. For the year ended December 31, 2023, non-cash transactions amounting to $\ 233,902$ million (\$159,117 thousand) occurred due to the issuance of new shares and the acquisition of treasury stocks (see Note 37).

35. Uncertainty of the impact of the Myanmar coup

The military government of Myanmar declared a state of emergency in February 2021, announcing the establishment of a transitional government, and has maintained its military rule by repeatedly extending the period of emergency. Meanwhile, February 2022 and November 2023, economic and financial sanctions were announced by the European Union and the U.S. government against Myanmar State Oil and Gas Company (MOGE), which holds a 15% stake in Myanmar's A-1/A-3 gas field project. The business, in which the Company holds a 51% stake, is operating normally, and the Company is continuously monitoring situations that may have an impact, such as additional economic and financial sanctions from the international community. As of December 31, 2024, the impact on the business of the Company such as Myanmar gas field in the future could not be estimated reasonably, and the impact from this was not reflected in the financial statements.

36. Business combination

36.1 Business combination overview

The Company absorbed and merged with POSCO Energy Co., Ltd. for the year ended December 31, 2023. The purpose of this business combination is to strengthen competitiveness and improve management efficiency by integrating the Company's energy business and completing the LNG business value chain, and to lay the foundation for sustainable growth.

	Information		
Surviving corporation after merger	POSCO INTERNATIONAL		
Extinct corporation after merger	POSCO Energy Co., Ltd.		
Board resolution date	August 12, 2022		
Date of merger	January 1, 2023		
Ratio of merger	POSCO INTERNATIONAL : POSCO Energy Co., Ltd. = 1 : 1.1626920		

36.2 Accounting for business combination

The business combination is a business combination under the common control, and the assets acquired and liabilities assumed through this business combination were recognized at the book amount in the financial statements of the top controlling company. The Company recorded the difference between the issue price of new merged shares and the book value of the acquired net assets in capital surplus.

The book amounts of identifiable assets and liabilities acquired through a merger under the common control are as follows:

		Korean won in millions		U.S. dollar in thousands	
<consideration transferred=""></consideration>					
Issuance of new shares					
(number of shares issued: 52,547,639 shares)	Υ.	262,738	\$	178,733	
Treasury stock		(28,836)		(19,616)	
	<u>\</u>	233,902	\$	159,117	
Identifiable assets acquired and liabilities assumed>					
Current assets					
Cash and cash equivalents	Ν.	503,346	\$	342,412	
Trade and other receivables		621,598		422,856	
Other current financial assets		28,714		19,533	
Derivative financial assets		3,382		2,301	
Other current assets		136,981		93,184	
Inventory		142,297		96,801	
	<u>\</u>	1,436,318	\$	977,087	
Non-current assets					
Long-term trade and other receivables	Ν.	8,456	\$	5,752	
Other non-current financial assets		12,687		8,631	
Long-term derivative financial assets		3,426		2,331	
Subsidiaries and associates		937,861		638,001	
Property, plant and equipment		1,777,100		1,208,912	
Right-of-use assets		31,922		21,716	
Intangible assets		5,854		3,982	
Net defined benefit assets		10,485		7,133	
Deferred tax assets		42,944		29,214	
Other non-current assets		31,640		21,524	
	<u>\</u>	2,862,375	\$	1,947,196	

36.2 Accounting for business combination (cont'd)

	Korean won in millions		U.S. dollar in thousands	
Current liabilities				
Trade and other payables	\mathbf{N}	460,411	\$	313,205
Borrowings		353,829		240,700
Current portion of bonds		199,907		135,991
Derivative financial liabilities		1,585		1,078
Current portion of provisions		130,725		88,929
Other current liabilities		124,345		84,588
Current income tax liability		45,305		30,820
	\ \	1,316,107	\$	895,311
Non-current liabilities				
Long-term trade and other payables		7,083	\$	4,818
Long-term borrowings		262,234		178,390
Bonds		958,403		651,975
Other non-current liabilities		6,104		4,152
Provisions		88,706		60,344
Long-term derivative financial liabilities		170		116
	\ \	1,322,700	\$	899,795
Equity				
Accumulated other comprehensive income	\mathbf{N}	-20,731	\$	(14,103)
Hybrid bonds		139,571	·	94,946
	\mathbf{N}	118,840	\$	80,843
<equity arising="" business="" combination="" from=""></equity>				
Capital surplus	\mathbf{N}	1,307,144	\$	889,214

37. Assets held for sale

37.1. Outline

The Company have classified the shares of AES Mong Duong Power Co., Ltd. and Mong Duong Finance Holdings B.V. as assets held for sale, as it believes that all of the shares will be recovered through sale transactions, and measured them at the lower of the fair value less costs to sell and the book value.

37.2. Assets held for sale as of December 31, 2024 and 2023 are as follows:

				U.S. dollar in
	Korean won in millions			thousands
Investment in associates (*1) (*2)	\ \	135,138	\$	91,931

(*1) The current book value as of December 31, 2024 reflected the impairment loss on investments in related companies of \land 46,949 million (\$31,938 thousand).

(*2) As of December 31, 2024, the Company are providing $\ 134,277$ million (\$91,345 thousand) worth of investment stocks in associates as collateral in relation to the borrowings of associates.

38. Events after the reporting period

On February 3, 2025, the Company's Board of Directors resolved to absorb and merge its subsidiary, NEH Co., Ltd. with the merger date of April 28, 2025.

Audit opinion on internal control over financial reporting

The accompanying independent auditor's report on internal control over financial reporting is attached as a result of auditing the internal control over financial reporting of POSCO INTERNATIONAL Corporation (the "Company") and the financial statements of the Company for the year ended December 31, 2024 in accordance with the Article 8 of the Act on External Audit of Stock Companies.

Attachments:

- 1. Independent auditor's report on internal control over financial reporting
- 2. Report on Operating Status of Internal Control over Financial Reporting



Ernst & Young Han Young 2-3F, 7-8F, Taeyoung Building, 111, Yeouigongwon-ro, Yeongdeungpo-gu, Seoul 07241 Korea

Tel: +82 2 3787 6600 Fax: + 82 2 783 5890 ev.com/kr

Independent auditor's report on internal control over financial reporting (English translation of a report originally issued in Korean)

The Shareholders and Board of Directors POSCO International Corporation

Opinion on internal control over financial reporting

We have audited the internal control over financial reporting ("ICFR") of POSCO International Corporation (the "Company") based on the Conceptual Framework for Design and Operation of ICFR established by the Operating Committee of ICFR in Korea (the "ICFR Committee") as of December 31, 2024.

In our opinion, the Company's ICFR has been effectively designed and operated, in all material respects, as of December 31, 2024 in accordance with the Conceptual Framework for Design and Operation of ICFR.

We also have audited, in accordance with KSA, the statement of financial position as of December 31, 2024, and the statement of income (or statement of profit or loss and other comprehensive income), statement of changes in equity and statement of cash flows for the year then ended, and notes to the financial statements, including a summary of material accounting policy information, of the Company, and our report dated March 12, 2025 expressed *an unqualified opinion thereon*.

Basis for opinion on ICFR

We conducted our audit in accordance with KSA. Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of ICFR section of our report. We are independent of the Company in accordance with the ethical requirements that are relevant to our audit of ICFR in the Republic of Korea, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibility of management and those charged with governance for ICFR

Management is responsible for designing, implementing and maintaining an effective ICFR, and for assessing the effectiveness of the ICFR included in the accompanying *Report on Operating Status of Internal Control over Financial Reporting*.

Those charged with governance are responsible for overseeing the Company's ICFR process.

Auditor's responsibilities for the audit of ICFR

Our responsibility is to express an opinion of the Company's ICFR based on our audit. We conducted our audit in accordance with KSA. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective ICFR was maintained in all material respects.

An audit of the ICFR involves performing procedures to obtain audit evidence as to whether a material weakness exists. The procedures selected depend on the auditor's judgment, including the assessment of the risks that a material weakness exists. An audit also includes testing and evaluating the design and operation of ICFR based on obtaining an understanding of ICFR and the assessed risk.



ICFR definition and inherent limitations

A company's ICFR is implemented by those charged with governance, management, and other employees and 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 International Financial Reporting Standards as adopted by the Republic of Korea ("KIFRS"). A company's ICFR 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 KIFRS, 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, ICFR may not prevent or detect material misstatements of the financial statements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that ICFR may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

The engagement partner on the audit resulting in this independent auditor's report is Sang-il Bae.

March 12, 2025

This audit report is effective as of March 12, 2025, the independent auditor's report date. Accordingly, certain material subsequent events or circumstances may have occurred during the period from the date of the independent auditor's report to the time this report is used. Such events and circumstances could significantly affect the Company's ICFR and may result in modifications to this report.

Report on Operating Status of Internal Control over Financial Reporting English translation of a report originally issued in Korean

To the Shareholders, Board of Directors and Audit Committee of POSCO International Corporation

We, as the Chief Executive Officer and the Internal Control Officer of POSCO International Corporation (the "Company"), assessed operating status of the Company's Internal Control over Financial Reporting("ICFR") for Purposes as of December 31, 2024.

Design and operation of ICFR for Purposes is the responsibility of the Company's management, including the Chief Executive Officer and the Internal Control Officer (collectively, "We").

We evaluated whether the Company effectively designed and operated its ICFR to prevent and detect errors or frauds which may cause a misstatement in financial statements to ensure preparation and disclosure of reliable financial information.

We used the 'Conceptual Framework for Design and Operation of Internal Control over Financial Reporting' for evaluating design and operation of the Company's ICFR, established by the Operating Committee of Internal Control over Financial Reporting in Korea (the "ICFR Committee").

Based on our assessment, we concluded that the Company's ICFR is designed and operated effectively as of December 31, 2024, in all material respects, in accordance with the 'Conceptual Framework for Design and Operation of Internal Control over Financial Reporting'.

We certify that this report does not contain any untrue statement of a fact, or omit to state a fact necessary to be presented herein. We also certify that this report does not contain or present any statements which might cause material misunderstandings of the readers, and we have reviewed and verified this report with sufficient care.

February 3, 2025

/s/ Lee, Kye-in Chief Executive Officer

/s/ Chung, Kyung-jin, Internal Control Officer