

# LG CNS CO., LTD. AND ITS SUBSIDIARIES

CONSOLIDATED FINANCIAL STATEMENTS
AS OF AND FOR THE YEARS ENDED
DECEMBER 31, 2020 AND 2019
ATTACHMENT: INDEPENDENT AUDITORS' REPORT



#### **Deloitte Anjin LLC**

9F., One IFC, 10, Gukjegeumyung-ro, Youngdeungpo-gu, Seoul 07326, Korea

Tel: +82 (2) 6676 1000 Fax: +82 (2) 6674 2114 www.deloitteanjin.co.kr

#### INDEPENDENT AUDITORS' REPORT

English Translation of Independent Auditors' Report Originally Issued in Korean on March 10, 2021.

To the Shareholders and the Board of Directors of LG CNS Co., Ltd.:

#### **Report on the Audited Consolidated Financial Statements**

#### **Audit Opinion**

We have audited the accompanying consolidated financial statements of LG CNS Co., Ltd. and its subsidiaries (the "Group"), which comprise the consolidated statements of financial position as of December 31, 2020 and December 31, 2019, respectively, and the related consolidated statements of income, consolidated statements of comprehensive income, consolidated statements of changes in shareholders' equity and consolidated statements of cash flows, all expressed in U.S. dollars, for the years then ended, and a summary of significant accounting policies.

In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Group as of December 31, 2020 and December 31, 2019, respectively, and its financial performance and its cash flows for the years then ended in accordance with Korean International Financial Reporting Standards ("K-IFRSs").

#### **Basis for Audit Opinion**

We conducted our audits in accordance with the Korean Standards on Auditing ("KSAs"). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Consolidated Financial Statements section of our report. We are independent of the Group in accordance with the ethical requirements, including those related to independence, that are relevant to our audit of the consolidated financial statements in the Republic of Korea as required by prevailing audit regulations. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### **Key Audit Matters**

The key audit matters were determined, in the auditors' professional judgment and from the matters communicated with those charged with governance, to be of most significance in the audit of the consolidated financial statements of the current period in accordance with 'Auditing practice guidance 2016-1(revised in 2018)' in the Republic of Korea. These matters were addressed in the content of our audit of the consolidated financial statements as a whole, and we do not provide a separate opinion on these matters.

(The key audit matters) Change in estimating total contract cost

As described in Note 18 (5) to the consolidated financial statements, changes in estimation of the total contract cost for contracts that recognize revenue over time using the cost-based input method affect profit or loss of current and future periods, contract assets and contract liabilities. In addition, as explained in Note 3 to the consolidated financial statements, the total contract cost is estimated on the basis of future forecasting of labor cost, material cost, project duration and so on. Estimates of total contract costs require expertise in engineering design and therefore the risk that changes in total contract costs as the project progresses will not be reflected in a timely manner. Thus, we identified changes in estimated total contract cost as a key audit matter, taking into account the impact of changes in estimated total contract cost on current and future profit and loss.

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The major audit procedures we have conducted in relation to the changes in estimated total contract cost are as follows:

- Understanding and evaluating design and implementation of internal control relevant to accuracy and cutoff of estimated total contract cost
- Retrospective test of changes in estimated total contract cost of ongoing projects at the end of current period
- Test of accuracy and cutoff of estimated total contract cost, which was changed during the current period
- Test of the subsequent event related to estimated total contract cost, which is in progress at the end of current period

# Responsibilities of Management and Those Charged with Governance for the Consolidated Financial Statements

Management is responsible for the preparation of the accompanying consolidated financial statements in accordance with K-IFRSs, and for such internal control as they determine is necessary to enable the preparation of the consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management of the Group is responsible for assessing the Group'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 Group or to cease operations, or has no realistic alternative but to do so.

Those charged with governance's responsibilities include overseeing the Group's financial reporting process.

#### Auditors' Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' 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 KSAs 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 consolidated financial statements.

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

- Identify and assess the risks of material misstatement of the consolidated financial statements, 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, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of the 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 Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the consolidated 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 auditors' report. However, future events or conditions may cause the Group to cease to continue as a going concern.

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- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the Group audit. We are solely responsible for our audit opinion.

We communicate with those charged with governance of the Group 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.

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March 10, 2021

#### **Notice to Readers**

This report is effective as of March 10, 2021, the auditors' report date. Certain subsequent events or circumstances may have occurred between the auditors' report date and the time the auditors' report is read. Such events or circumstances could significantly affect the consolidated financial statements and may result in modifications to the auditors' report.

# LG CNS CO., LTD. AND ITS SUBSIDIARIES (the "Group")

CONSOLIDATED FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

The accompanying consolidated financial statements, including all footnote disclosures, were prepared by, and are the responsibility of, LG CNS Co., Ltd.

Kim Young Shub. Chief Executive Officer LG CNS Co., LTD.

Headquarters: (Address) LG science park E13, 71 Magokjungang 8 ro, Gangseo-gu, Seoul, Korea (Telephone) +82-2-2099-0114

# LG CNS CO., LTD. AND ITS SUBSIDIARIES CONSOLIDATED STATEMENTS OF FINANCIAL POSITION AS OF DECEMBER 31, 2020 AND 2019

	Korean won			
	December 31, 2020	December 31, 2019		
	(In thou	ısands)		
<u>ASSETS</u>				
CURRENT ASSETS:				
Cash and cash equivalents (Notes 5, 6 and 34)	₩ 720,276,711	₩ 490,309,547		
Financial institution deposits (Notes 5, 31 and 34)	147,756,749	35,390,763		
Current derivative assets (Notes 5 and 34)	2,578,106	2,249,593		
Trade receivables, net (Notes 5,7, 30 and 34)	816,734,476	804,274,258		
Other receivables, net (Notes 5,7, 30 and 34)	23,402,807	26,707,666		
Income tax refund receivables (Note 28)	6,432,592	6,140,718		
Other current assets (Notes 9 and 18)	221,993,028	247,962,893		
Inventories, net (Note 8)	34,764,333	57,359,850		
Total current assets	1,973,938,802	1,670,395,288		
NON-CURRENT ASSETS:				
Financial institution deposits (Notes 5, 27, 31 and 34)	391,393	285,461		
Financial assets measured at FVTOCI (Notes 5, 27 and 34)	6,644,205	9,924,235		
Financial assets measured at FVTPL (Notes 5, 27 and 34)	23,873,805	11,021,048		
Long-term trade receivables, net (Notes 5, 7, 30 and 34)	21,229,726	26,309,223		
Long-term other receivables, net (Notes 5, 7, 27, 30, 31 and				
34)	5,822,108	5,446,603		
Investments in associates (Note 13)	74,051,442	62,662,009		
Deferred tax assets, net (Note 28)	35,230,943	46,179,476		
Other non-current assets (Notes 9 and 18)	108,836	139,578		
Property, plant and equipment, net (Notes 10, 30 and 37)	583,892,336	621,366,395		
Investment property, net (Notes 11 and 37)	24,564,934	28,495,371		
Intangible assets (Notes 12, 30 and 37)	75,800,625	69,692,205		
Right-of-use assets (Notes 32 and 37)	57,865,650	63,391,368		
Total non-current assets	909,476,003	944,912,972		
TOTAL ASSETS	₩ 2,883,414,805	₩ 2,615,308,260		

# LG CNS CO., LTD. AND ITS SUBSIDIARIES CONSOLIDATED STATEMENTS OF FINANCIAL POSITION (CONTINUED) AS OF DECEMBER 31, 2020 AND 2019

	Korean won			
	December 31, 2020	December 31, 2019		
	(In thou	sands)		
LIABILITIES AND SHAREHOLDERS' EQUITY				
CURRENT LIABILITIES:				
Current derivative liabilities (Notes 5, 27 and 34)	₩ 326,494	₩ 275,703		
Trade payables (Notes 5, 27, 30 and 34)	473,471,390	348,748,377		
Other payables (Notes 5, 27, 30 and 34)	163,058,767	157,676,291		
Short-term borrowings (Notes 5, 14, 27, 34 and 37)	29,665,108	24,620,328		
Current portion of debentures and long-term borrowings				
(Notes 5, 14, 27, 34 and 37)	89,972,432	229,933,714		
Current tax liabilities (Note 28)	30,874,747	12,639,374		
Current provisions (Note 15)	34,413,213	46,038,780		
Other liabilities (Notes 17 and 18)	198,549,856	201,158,120		
Current lease liabilities(Notes 5, 27, 32, 34 and 37)	12,710,686	12,131,342		
Total current liabilities	1,033,042,693	1,033,222,029		
NON-CURRENT LIABILITIES: Long-term other payables (Notes 5, 27, 30, 34 and 37) Long-term borrowings (Notes 5, 14, 27 and 34) Net defined benefit liability (Note 16) Deferred tax liability (Note 28) Provisions (Note 15) Other liabilities (Notes 17) Lease liabilities (Notes 5, 27, 32, 34 and 37) Total non-current liabilities TOTAL LIABILITIES	1,336,289 498,810,231 1,379,372 4,196,922 1,289,270 11,894,275 44,143,195 563,049,554 1,596,092,247	1,436,045 289,453,043 950,325 5,010,662 2,550,569 10,513,150 49,334,170 359,247,964 1,392,469,993		
SHAREHOLDERS' EQUITY:				
Equity attributable to owners of the Parent Company:				
Issued capital (Note 19)	47,198,411	47,198,411		
Capital surplus (Note 20)	36,693,312	36,693,312		
Accumulated other comprehensive loss (Note 21)	(19,057,866)	(16,034,562)		
Retained earnings (Note 22)	1,220,926,561	1,152,845,965		
	1,285,760,418	1,220,703,126		
Non-controlling interests	1,562,140	2,135,141		
TOTAL SHAREHOLDERS' EQUITY	1,287,322,558	1,222,838,267		
TOTAL SHAREHOLDERS' EQUIT I	1,407,344,338	1,222,030,207		
EQUITY	₩ 2,883,414,805	2,615,308,260		

(Concluded)

# LG CNS CO., LTD. AND ITS SUBSIDIARIES CONSOLIDATED STATEMENTS OF INCOME FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

	Korean won				
		Year ended	,	Year ended	
	December 31, 2020		December 31, 2019		
		(In thou	sands)		
Sales (Notes 4, 23 and 30)	₩	3,360,485,527	₩	3,283,314,264	
Cost of sales (Notes 8, 23, 24 and 30)		(2,845,552,869)		(2,818,591,153)	
Gross profit		514,932,658		464,723,111	
Selling and administrative expenses (Notes 23, 24, 30					
and 32)		(268,812,011)		(251,874,581)	
Operating income	246,120,647			212,848,530	
Financial income (Note 25)		9,899,088		8,904,225	
Financial expenses (Note 25)		(18,358,642)		(18,309,168)	
Gain or loss from investment in associates (Note 13)		(2,709,596)		4,510,770	
Other operating income (Note 26)		51,019,652		26,126,313	
Other operating expenses (Note 26)		(54,260,226)		(26,759,508)	
Profit before income tax expense		231,710,923		207,321,162	
Income tax expense (Note 28)		(65,216,910)	(43,868,975		
Profit for the year	₩	166,494,013	₩	163,452,187	
Profit for the year attributable to:					
Owners of the Parent Company		167,079,303	₩	163,843,086	
Non-controlling interests		(585,291)		(390,899)	
Earnings per share ("EPS") (in Korean won) (Note 29)					
Basic and diluted income per share	₩	1,916	₩	1,879	

# LG CNS CO., LTD. AND ITS SUBSIDIARIES CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

	Korean won					
	Year ended December 31,			Year ended ecember 31,		
	D	2020	2019			
	(In thousa			sands)		
Profit for the year	₩	166,494,012	₩	163,452,187		
Items that will not be reclassified to profit or loss:						
Remeasurements of the net defined benefit liability		(30,920)		431,811		
Decrease in retained earnings of equity method investments		437,194	(130,435)			
Net loss on financial assets measured at FVTOCI	(121,825)		(258,137)			
		284,450		43,239		
Items that may be reclassified subsequently to profit or loss:						
Capital change in equity method		(1,228,858)		1,459,004		
Exchange differences on translating foreign operations		(1,660,331)		731,928		
		(2,889,189)		2,190,932		
Total comprehensive income for the year	₩	163,889,273	₩	165,686,358		
		_				
Total comprehensive income attributable to:						
Owners of the Parent Company	₩	164,462,274	₩	,		
Non-controlling interests		(573,001)		(367,996)		

# LG CNS CO., LTD. AND ITS SUBSIDIARIES CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

17		
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	-		Korca	all woll		
			Accumulated			
			other		Non-	
		Capital	comprehensive	Retained	controlling	
	Issued capital	surplus	income (loss)	earnings	interests	Total
			(In the	ousands)		
Balance as of January 1, 2019	₩ 47,198,411	₩ 39,515,638	₩ (17,944,454)	₩1,030,556,232	₩ (2,953,316)	₩1,096,372,511
Profit (loss) for the year	-	-	-	163,843,086	(390,899)	163,452,187
Net gain on financial assets						
measured at FVTOCI	-	-	(258,137)	-	-	(258,137)
Valuation through equity						
method	-	-	1,459,003	(130,435)	-	1,328,568
Remeasurements of net defined						
benefit liability	-	-	-	431,811	-	431,811
Translating foreign operation	-	-	709,026	-	22,902	731,928
Annual dividends	-	-	-	(41,854,729)	-	(41,854,729)
Acquisition of additional shares						
in subsidiaries	-	(2,822,326)	-	-	5,491,883	2,669,557
Disposal of shares in						
subsidiaries					(35,429))	(35,429)
Balance as of December 31, 2019	₩ 47,198,411	₩ 36,693,312	₩ (16,034,562)	₩1,152,845,965	₩ 2,135,141	₩1,222,838,267
Balance at January 1, 2020	₩ 47,198,411	₩ 36,693,312	₩ (16,034,562)	₩1,152,845,965	₩ 2,135,141	₩1,222,838,267
Profit (loss) for the year	-	-	-	167,079,303	(585,291)	166,494,012
Net gain on financial						
assets measured at FVTOCI	-	-	(121,825)	-	-	(121,825)
Valuation through equity						
method	-	-	(1,228,858)	437,195	-	(791,663)
Remeasurements of net defined						
benefit liability	-	-	-	(30,920)	-	(30,920)
Translating foreign operations	-	-	(1,672,621)	-	12,290	(1,660,331)
Annual dividends	-	-	-	(99,404,982)	-	(99,404,982)
Balance as of December 31, 2020	₩ 47,198,411	₩ 36,693,312	₩ (19,057,866)	₩1,220,926,561	₩ 1,562,140	₩1,287,322,558

# LG CNS CO., LTD. AND ITS SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

CASH FLOWS FROM OPERATING ACTIVITIES:           Profit for the year         ₩ 166,494,012         ₩ 163,452,187           Additions of expenses not involving cash outflows:         3,212,107         2,816,486           Retirement benefits         1,734,584         3,514,209           Depreciation         70,891,589         74,086,646           Amortization of intangible assets         10,069,772         8,903,966           Loss on valuation of inventories         40,000         -           Bad debt expenses         1,595,435         281,915
Profit for the year         ₩ 166,494,012         ₩ 163,452,187           Additions of expenses not involving cash outflows:         3,212,107         2,816,486           Retirement benefits         1,734,584         3,514,209           Depreciation         70,891,589         74,086,646           Amortization of intangible assets         10,069,772         8,903,966           Loss on valuation of inventories         40,000         -           Bad debt expenses         1,595,435         281,915
Additions of expenses not involving cash outflows:       3,212,107       2,816,486         Salaries and wages       3,212,107       2,816,486         Retirement benefits       1,734,584       3,514,209         Depreciation       70,891,589       74,086,646         Amortization of intangible assets       10,069,772       8,903,966         Loss on valuation of inventories       40,000       -         Bad debt expenses       1,595,435       281,915
Salaries and wages       3,212,107       2,816,486         Retirement benefits       1,734,584       3,514,209         Depreciation       70,891,589       74,086,646         Amortization of intangible assets       10,069,772       8,903,966         Loss on valuation of inventories       40,000       -         Bad debt expenses       1,595,435       281,915
Salaries and wages       3,212,107       2,816,486         Retirement benefits       1,734,584       3,514,209         Depreciation       70,891,589       74,086,646         Amortization of intangible assets       10,069,772       8,903,966         Loss on valuation of inventories       40,000       -         Bad debt expenses       1,595,435       281,915
Retirement benefits       1,734,584       3,514,209         Depreciation       70,891,589       74,086,646         Amortization of intangible assets       10,069,772       8,903,966         Loss on valuation of inventories       40,000       -         Bad debt expenses       1,595,435       281,915
Depreciation       70,891,589       74,086,646         Amortization of intangible assets       10,069,772       8,903,966         Loss on valuation of inventories       40,000       -         Bad debt expenses       1,595,435       281,915
Amortization of intangible assets10,069,7728,903,966Loss on valuation of inventories40,000-Bad debt expenses1,595,435281,915
Loss on valuation of inventories 40,000 - Bad debt expenses 1,595,435 281,915
Bad debt expenses 1,595,435 281,915
Accrual of provision 25,358,144 24,177,338 Other selling and administrative expenses 232,214
Loss on foreign currency translation 7,369,716 2,181,161
Loss on disposal of property, plant and equipment 1,305,954 52,764
Impairment loss on property, plant and equipment 11,481,937 176
Loss on disposal of intangible assets  310,105  7,145
Impairment loss on intangible assets 2,612,377 -
Loss on transactions of derivatives 18,795,478 15,910,718
Loss on valuation of derivatives 326,494 330,389
Interest expenses 16,128,079 16,887,059
Loss on disposal of financial assets measured at FVTPL 8 1,032
Impairment loss on investments in associates 201,952
Loss on disposal of investments in subsidiaries 3,500 473,009
Loss on valuation by equity method 7,572,260 1,376,115
Income tax expense 65,216,910 43,868,975
244,458,617 194,869,103
Deduction of items not involving cash inflows:
Reversal of allowance for doubtful accounts 7,426,099 241,787
Reversal of provision 14,176,714 10,282,609
Gain on foreign currency translation 3,034,201 2,327,395
Reversal of impairment loss on inventories 255,365 49,590
Gain on disposal of property, plant and equipment 456,840 381,415
Gain on disposal of intangible asset 989 3,479
Reversal of impairment loss of intangible assets - 890,000
Gain on transaction of derivatives 17,740,512 8,533,789
Gain on valuation of derivatives 2,332,733 1,981,158
Gain on disposal of financial assets measured at FVTPL 151,693 211,271
Interest income 7,621,955 7,678,020

# LG CNS CO., LTD. AND ITS SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS (CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

		Korea	n won		
	Dece	Year ended December 31, 2020		ear ended eember 31, 2019	
		(In tho	usands)		
Dividend income		80,702	₩	14,096	
Gain on disposal of investments in subsidiaries		-		651,900	
Reversal of impairment losses of investments in		107.531			
Associates		107,521		-	
Gain on valuation by equity method		4,862,664		5,886,886	
Other non-operating income		1,073,196		134,526	
	(5	59,321,184)	(	39,267,921)	
Movements in working capital:					
Trade receivables		(9,549,521)	22,898,906		
Other receivables		(2,166,241)		6,531,197	
Other current assets		10,558,937		(47,703,785)	
Inventories		22,856,110		(5,758,695)	
Non-current trade receivables		1,497,123		(17,257)	
Other non-current assets		(47,585)		618,750	
Trade payables	1	22,002,935		(30,243,687)	
Other payables		7,547,051		25,083	
Other current liabilities		(3,613,180)	20,064,155		
Current provisions	(	19,768,631)		(26,404,431)	
Other non-current liabilities		(1,820,022)	(754,450)		
Net defined benefit liability		(2,020,791)		(2,359,226)	
Other operating assets and liabilities	-	(1,807,832)	-	(403,003)	
	1	23,668,353	(	63,506,443)	
Interest income received		7,430,059		6,897,130	
Dividend income received		1,111,798		522,468	
Income taxes received		1,676,843		814,599	
Interest expense paid	(	14,447,172)		(14,655,303)	
Income taxes paid	_ (	39,432,803)		(50,610,491)	
Net cash provided by operating activities	4	31,638,523		198,515,329	

# LG CNS CO., LTD. AND ITS SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS (CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

	Korean won			
	Year ended December 31, 2020	Year ended December 31, 2019		
	(In tho	usands)		
CASH FLOWS FROM INVESTING ACTIVITIES:				
Cash inflows from investing activities:				
Decrease in financial institution deposits	₩ 600,000	₩ 4,539,843		
Settlement of derivative instruments	17,740,512	8,533,789		
Decrease in other receivables	10,765,585	1,303,532		
Disposal of financial assets measured at FVTOCI	248,772	1,318,044		
Disposal of financial assets measured at FVTPL	3,753,517	222		
Disposal of investments in subsidiaries	-	700,000		
Recovery of investments in associates	4,665,821	-		
Decrease in long-term other receivables	80,767	557,127		
Disposal of property, plant and equipment	1,612,954	577,092		
Disposal of intangible assets	10,730,290	1,406,600		
Cash inflows from other investments	-	384,276		
Cash inflows from changes in the scope of consolidation	_	3,703,330		
	50,198,218	23,023,855		
Cash outflows for investing activities:				
Increase in financial institution deposits	112,945,592	52,966		
Acquisition of derivative instruments	17,090,023	15,163,417		
Increase in other receivables	2,598,627	855,325		
Acquisition of financial assets measured at FVTOCI	885,343	7,334,763		
Acquisition of financial assets measured at FVTPL	13,741,416	2,699,805		
Increase in long-term other receivables	2,601,846	647,032		
Acquisition of property, plant and equipment	26,664,836	33,363,317		
Acquisition of intangible assets	29,358,333	13,968,343		
Acquisition of subsidiaries	-	14,237,403		
Acquisition of investments in associates	10,540,750	-		
Cash outflows from changes in the scope of consolidation	-	2,712,661		
Cash outflows for other investment	-	1,495		
	(216,426,766)	(91,036,527)		
Net cash used in investing activities	(166,228,548)	(68,012,672)		

# LG CNS CO., LTD. AND ITS SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS (CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

	Korean won				
	Year ended	Year ended			
	December 31,	December 31,			
	2020	2019			
	(In thou	ısands)			
CASH FLOWS FROM FINANCING ACTIVITIES:					
Cash inflows from financing activities:					
Proceeds from short-term borrowings	₩ 8,803,305	₩ 16,250,281			
Issuance of debentures	300,000,000	-			
Increase in government subsidy	1,966,430	447,316			
	310,769,735	16,697,597			
Cash outflows for financing activities:					
Redemption of short-term borrowings	1,911,480	14,495,210			
Redemption of current portion of long-term borrowings	-	3,211,788			
Redemption of long-term borrowings	-	25,053,641			
Redemption of debentures	230,000,000	-			
Redemption of current lease liabilities	13,268,603	11,184,895			
Redemption of lease liabilities	49,845	1,219,105			
Payment of dividends	99,404,982	41,854,177			
Cash outflows for consolidated capital transactions		248,575			
	(344,634,910)	(97,267,391)			
Net cash provided by (used in) financing activities	(33,865,175)	(80,569,794)			
Net increase (decrease) in cash and cash equivalents	231,544,798	49,932,863			
Cash and cash equivalents at the beginning of year	490,309,547	439,345,857			
Effects of exchange rate changes on the balance of cash held	170,307,547	137,313,037			
in foreign currencies	(1,577,634)	1,030,827			
Cash and cash equivalents at the end of year	₩ 720,276,711	₩ 490,309,547			

(Concluded)

# LG CNS CO., LTD. AND ITS SUBSIDIARIES NOTES AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

# 1. **GENERAL**:

LG CNS Co., Ltd. (the "Parent Company") was incorporated in 1987, under the laws of the Republic of Korea to engage in system integration, software design and development, providing information processing services and leasing computer hardware. It was organized under a joint venture agreement among LG Engineering Co., Ltd.; E.D.S. World Corporation (Far East) and others.

As of December 31, 2020, the issued capital is  $\mbox{$\mathbb{W}$47,198$}$  thousand and the Parent Company's shareholders are LG Corp. (49.95%) and others.

# 2. Basis of consolidation and Significant accounting policies

#### (1) Basis of Preparation

The Parent Company and its subsidiaries (the "Group") [or Company, if presented for the separate financial statements] have [has] prepared the consolidated financial statements in accordance with the Korean International Financial Reporting Standards ("K-IFRSs").

The principal accounting policies are set out below. Except for the effect of the Amendments to K-IFRSs and new interpretations set out below, the principal accounting policies used to prepare the consolidated financial statements as of and for the year ended December 31, 2020, are consistent with the accounting policies used to prepare the consolidated financial statements as of and for the year ended December 31, 2019.

The accompanying consolidated financial statements have been created based on a historical cost basis, with the exception of certain non-current assets and financial assets measured at revalued amount and fair value at the end of each reporting period as explained in the accounting policy below. Historical cost is commonly measured in fair value of cost to acquire the asset.

Fair value is the price that will be paid when the asset is sold or the liability is transferred in a normal transaction between market participants at the measurement date, whether the price is directly observable or whether it is valued using valuation techniques. In estimating the fair value of an asset or liability, we consider the nature of the asset or liability that the market participant considers when determining the cost of the asset or liability at the measurement date. Fair value for measurement and disclosure purposes in these consolidated financial statements is determined on such a basis, except for share-based payment transactions that are within the scope of K-IFRS 1102 'Share-based payment'; leasing transactions that are within the scope of K-IFRS 1017 'Leases'; and measurements that have some similarities to fair value, but are not fair value, such as net realizable value in K-IFRS 1002 'Inventories' or value in use in K-IFRS 1036 'Impairment of Assets,' in accordance with the principles described above will be determined.

- 1) In the current year, the Group has applied a number of amendments to K-IFRSs and new interpretations issued that are mandatorily effective for accounting periods beginning on or after January 1, 2020.
- K-IFRS 1116 Leases Impact of the initial application of COVID-19-Related Rent Concessions(Amendment)

The amendments provide practical relief to lessees in accounting for rent concessions occurring as a direct consequence of COVID-19, by introducing a practical expedient to K-IFRS 1116. The practical expedient permits a lessee to elect not to assess whether a COVID-19-related rent concession is a lease modification. A lessee that makes this election shall account for any change in lease payments resulting from the COVID-19-related rent concession the same way it would account for the change applying K-IFRS 1116 if the change were not a lease modification.

The practical expedient applies only to rent concessions occurring as a direct consequence of COVID-19 and only if

all of the following conditions are met:

- The change in lease payments results in revised consideration for the lease that is substantially the same as, or less than, the consideration for the lease immediately preceding the change;
- Any reduction in lease payments affects only payments originally due on or before June 30, 2021 (a rent concession meets this condition if it results in reduced lease payments on or before June 30, 2021, and increased lease payments that extend beyond June 30, 2021); and
- There is no substantive change to other terms and conditions of the lease.

#### - References to the Conceptual Framework in K-IFRS (Amendments)

The amendments include consequential amendments to affected standards so that they refer to the revised Conceptual Framework (2018). Not all amendments, however, update those pronouncements with regard to references to and quotes from the framework so that they refer to the revised Conceptual Framework. Some pronouncements are only updated to indicate which version of the Framework they are referencing to (the Framework (2007), the IASB Framework of 2010, or the new revised Framework of 2018) or to indicate that definitions in the standard have not been updated with the new definitions developed in the revised Conceptual Framework. The standards which are amended are K-IFRSs 1102, 1103, 1106, 1114, 1001, 1008, 1034, 1037, 1038, 2112, 2119, 2120, 2122 and 2032

#### - K-IFRS 1103 Definition of a business (Amendment)

The amendments clarify that while businesses usually have outputs, outputs are not required for an integrated set of activities and assets to qualify as a business. To be considered for business, an acquired set of activities and assets must include, at a minimum, an input and a substantive process that together significantly contribute to the ability to create outputs.

The amendments remove the assessment of whether market participants are capable of replacing any missing inputs or processes and continuing to produce outputs. The amendments also introduce additional guidance that helps to determine whether a substantive process has been acquired.

The amendments introduce an optional concentration test that permits a simplified assessment of whether an acquired set of activities and assets is not a business. Under the optional concentration test, the acquired set of activities and assets is not a business if substantially all of the fair value of the gross assets acquired is concentrated in a single identifiable asset or group of similar assets. The amendments are applied prospectively to all business combinations and asset acquisitions for which the acquisition date is on or after January 1, 2020.

#### - K-IFRS 1001 and K-IFRS 1008 Definition of material (Amendment)

The amendments make the definition of material in K-IFRS 1001 easier to understand and are not intended to alter the underlying concept of materiality in K-IFRS Standards. The concept of 'obscuring' material information with immaterial information has been included as part of the new definition. The threshold for materiality influencing users has been changed from 'could influence' to 'could reasonably be expected to influence.' The definition of material in K-IFRS 1008 has been replaced by a reference to the definition of material in K-IFRS 1001. In addition, the IASB amended other standards and the Conceptual Framework that contain a definition of 'material' or refer to the term 'material' to ensure consistency.

The Group does not anticipate that the application of the enactment and amendments will have an significant impact on the Group's consolidated financial statements.

# 2) New and revised K-IFRSs in issue, but not yet effective

The Group has not applied the following new and revised K-IFRS Standards that have been issued, but are not yet effective:

#### - K-IFRS 1001 Classification of Liabilities as Current or Non-current (Amendment)

The amendments to K-IFRS 1001 affect only the presentation of liabilities as current or non-current in the statement

of financial position and not the amount or timing of recognition of any asset, liability, income or expenses, or the information disclosed about those items.

The amendments clarify that the classification of liabilities as current or non-current is based on rights that are in existence at the end of the reporting period, specify that classification is unaffected by expectations about whether an entity will exercise its right to defer settlement of a liability; explain that rights are in existence if covenants are complied with at the end of the reporting period; and introduce a definition of 'settlement' to make clear that settlement refers to the transfer to the counterparty of cash, equity instruments, other assets or services.

The amendments are applied retrospectively for annual periods beginning on or after January 1, 2023, with early application permitted.

# - K-IFRS 1103 Reference to the Conceptual Framework

The amendments update K-IFRS 1103 so that it refers to the Conceptual Framework (2018) instead of the Framework (2007).

They also add to K-IFRS 1103 a requirement that, for obligations within the scope of K-IFRS 1037, an acquirer applies K-IFRS 1037 to determine whether at the acquisition date a present obligation exists as a result of past events. For a levy that would be within the scope of K-IFRS 2121 Levies, the acquirer applies K-IFRS 2121 to determine whether the obligating event that gives rise to a liability to pay the levy has occurred by the acquisition date.

Finally, the amendments add an explicit statement that an acquirer does not recognize contingent assets acquired in a business combination.

The amendments are effective for business combinations for which the date of acquisition is on or after the beginning of the first annual period beginning on or after January 1 2022. Early application is permitted if an entity also applies all other updated references (published together with the updated Conceptual Framework) at the same time or earlier.

#### - K-IFRS 1016 Property, Plant and Equipment (Amendment)

The amendments prohibit deducting from the cost of an item of property, plant and equipment any proceeds from selling items produced before that asset is available for use, i.e., proceeds while bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management. Consequently, an entity recognizes such sales proceeds and related costs in profit or loss. The entity measures the cost of those items in accordance with K-IFRS 1002 Inventories.

The amendments also clarify the meaning of 'testing whether an asset is functioning properly.' K-IFRS 1016 now specifies this as assessing whether the technical and physical performance of the asset is such that it is capable of being used in the production or supply of goods or services, for rental to others or for administrative purposes.

If not presented separately in the statement of comprehensive income, the financial statements shall disclose the amounts of proceeds and cost included in profit or loss that relate to items produced that are not an output of the entity's ordinary activities, and which line item(s) in the statement of comprehensive income include(s) such proceeds and cost.

The amendments are applied retrospectively, but only to items of property, plant and equipment that are brought to the location and condition necessary for them to be capable of operating in the manner intended by management on or after the beginning of the earliest period presented in the financial statements in which the entity first applies the amendments.

The entity shall recognize the cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings (or other component of equity, as appropriate) at the beginning of that earliest period presented. The amendments are effective for annual periods beginning on or after January 1, 2022, with early application permitted.

#### - K-IFRS 1037 Onerous Contracts—Cost of Fulfilling a Contract (Amendment)

The amendments specify that the 'cost of fulfilling' a contract comprises the 'costs that relate directly to the contract.' Costs that relate directly to a contract consist of both the incremental costs of fulfilling that contract (examples would be direct labor or materials) and an allocation of other costs that relate directly to fulfilling contracts (an example would be the allocation of the depreciation charge for an item of property, plant and equipment used in fulfilling the contract).

The amendments apply to contracts for which the entity has not yet fulfilled all its obligations at the beginning of the annual reporting period in which the entity first applies the amendments. Comparatives are not restated. Instead, the entity shall recognize the cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings or other component of equity, as appropriate, at the date of initial application.

The amendments are effective for annual periods beginning on or after January 1, 2022, with early application permitted.

#### - Annual Improvements to K-IFRS Standards 2018–2020

The Annual Improvements include amendments to four standards such as K-IFRS 1101 First-time Adoption of K-IFRS, K-IFRS 1109 Financial Instruments, K-IFRS 1116 Leases and K-IFRS 1041 Agriculture.

# 1. K-IFRS 1101 First-time Adoption of K-IFRS (Amendment)

The amendment provides additional relief to a subsidiary which becomes a first-time adopter later than its parent in respect of accounting for cumulative translation differences. As a result of the amendment, a subsidiary that uses the exemption in K-IFRS 1101 paragraph D16(1) can now also elect to measure cumulative translation differences for all foreign operations at the carrying amount that would be included in the parent's consolidated financial statements, based on the parent's date of transition to K-IFRS standards, if no adjustments were made for consolidation procedures and for the effects of the business combination in which the parent acquired the subsidiary. A similar election is available to an associate or joint venture that uses the exemption in K-IFRS 1101 paragraph D16(1).

The amendment is effective for annual periods beginning on or after January 1, 2022, with early application permitted.

#### 2. K-IFRS 1109 Financial Instruments (Amendment)

The amendment clarifies that in applying the '10 per cent' test to assess whether to derecognize a financial liability, an entity includes only fees paid or received between the entity (the borrower) and the lender, including fees paid or received by either the entity or the lender on the other's behalf.

The amendment is applied prospectively to modifications and exchanges that occur on or after the date the entity first applies the amendment.

The amendment is effective for annual periods beginning on or after January 1, 2022, with early application permitted.

# 3. K-IFRS 1116 Leases (Amendment)

The amendment removes the illustration of the reimbursement of leasehold improvements.

As the amendment to K-IFRS 1116 only regards an illustrative example, no effective date is stated.

# 4. K-IFRS 1041 Agriculture (Amendment)

The amendment removes the requirement in K-IFRS 1041 for entities to exclude cash flows for taxation when measuring fair value. This aligns the fair value measurement in K-IFRS 1041 with the requirements of K-IFRS 1113 Fair Value Measurement to use internally consistent cash flows and discount rates and enables preparers to

determine whether to use pretax or posttax cash flows and discount rates for the most appropriate fair value measurement.

The amendment is applied prospectively, i.e., for fair value measurements on or after the date an entity initially applies the amendment.

The amendment is effective for annual periods beginning on or after January 1, 2022, with early application permitted.

The Group does not anticipate that the application of the enactment and amendments will have an significant impact on the Group's consolidated financial statements.

#### (2) Basis of consolidation

The consolidated financial statements incorporate the financial statements of the Parent Company and entities (including structured entities) controlled by the Group. Control is achieved where the Group 1) has the power over the investee; 2) is exposed, or has rights, to variable returns from its involvement with the investee; and 3) has the ability to use its power to affect its returns. The Group reassesses whether or not it controls an investee if facts and circumstances indicate that there are changes to one or more of the three elements of control listed above.

When the Group has less than a majority of the voting rights of an investee, it has power over the investee when the voting rights are sufficient to give it the practical ability to direct the relevant activities of the investee unilaterally. The Group considers all relevant facts and circumstances in assessing whether or not the Group's voting rights in an investee are sufficient to give it power, including:

- the size of the Group's holding of voting rights relative to the size and dispersion of holdings of the other vote holders;
- potential voting rights held by the Group, other vote holders or other parties;
- rights arising from other contractual arrangements; and
- any additional facts and circumstances that indicate that the Group has, or does not have, the current
  ability to direct the relevant activities at the time that decisions need to be made, including voting patterns
  at previous shareholders' meetings.

The consolidation of subsidiaries begins when the parent acquires control of the subsidiary and ceases when the parent loses control of the subsidiary. Especially income and expenses of subsidiaries acquired or disposed of during the year are included in the consolidated statements of comprehensive income from the date the Group gains control until the date when the Group ceases to control the subsidiary. Profit or loss and each component of other comprehensive income are attributed to the owners of the Group and to the non-controlling interests. Total comprehensive income of subsidiaries is attributed to the owners of the Group and to the non-controlling interests, even if this results in the non-controlling interests having a deficit balance.

When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies in line with the Group's accounting policies.

All intragroup transactions and related assets and liabilities, income and expenses are eliminated in full on consolidation.

The non-controlling interest of the subsidiary is identified separately from the capital of the entity. If the element of the non-controlling interest in the acquiree at the acquisition date is the current interest and the holder grants rights to the proportionate share of the Group's net assets at the time of liquidation, the non-controlling interest is classified as (1) the amount of the identifiable net assets of the acquiree in one of the proportional shares of the present equity instruments. The choice of these metrics is made for each acquisition transaction. All other non-controlling interests are measured at their fair value at the acquisition date. After the acquisition, the carrying amount of the non-controlling interest is the amount initially recognized, reflecting the proportionate share of non-controlling interest in the capital change after acquisition. Even if non-controlling interest becomes negative balance, total comprehensive income is attributed to non-controlling interest.

Changes in the Group's ownership interests in subsidiaries that do not result in the Group losing control over the subsidiaries are accounted for as equity transactions. The carrying amounts of the Group's interests and the non-controlling interests are adjusted to reflect the changes in their relative interests in the subsidiaries. Any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received is recognized directly in equity and attributed to owners of the Group.

When the Parent Company loses control of a subsidiary, a gain or loss on disposal is calculated as the difference between (i) the aggregate of the fair value of the consideration received and the fair value of any retained interest and (ii) the previous carrying amount of the assets (including goodwill) and liabilities of the subsidiary and any non-controlling interests. When assets of the subsidiary are carried at revalued amounts or fair values and the related cumulative gain or loss has been recognized in other comprehensive income and accumulated in equity, the amounts previously recognized in other comprehensive income and accumulated in equity are accounted for as if the Parent Company had directly disposed of the relevant assets (i.e., reclassified to profit or loss or transferred directly to retained earnings). The fair value of any investment retained in the former subsidiary at the date when control is lost is recognized as the fair value on initial recognition for subsequent accounting under K-IFRS 1198, *Financial Instruments*, or, when applicable, the cost on initial recognition of an investment in an associate or a joint venture.

The Parent Company's investments in subsidiaries as of December 31, 2020 and 2019, are as follows:

Percentage of ownership and voting right held by the company in the Group (\*1)

			December 31,	December 31,
Subsidiary	Major business activity	Location	2020	2019
Biztech Partners Co., Ltd	IT software service	South Korea	96.09%	96.09%
Haengbokmaru Co., Ltd.	Coffee bar, etc.	South Korea	100.00%	100.00%
Sejong Green Power Co., Ltd.	New and Renewable Energy	G 4 W	100.000/	10.010/
Open Source Consulting Co.,	Power Generation System Software	South Korea	100.00%	19.91%
Ltd(*1)	Development and Supply	South Korea	56.21%	56.21%
LG CNS PHILIPPINES, Inc.	Management and			
I C CNIC CL'	consultation of IT systems	Philippine	100.00%	100.00%
LG CNS China Inc.	Management and consultation of IT systems	China	100.00%	100.00%
LG CNS Europe B.V.	Management and	Cimia	100.0070	100.0070
•	consultation of IT systems	Netherlands	100.00%	100.00%
LG CNS America, Inc.	Management and	TICA	100.000/	100.000/
LG CNS India Pvt., Ltd.	consultation of IT systems Management and	USA	100.00%	100.00%
EG CI (6 Maia I vi., Etc.	consultation of IT systems	India	100.00%	100.00%
PT LG CNS Indonesia	Management and			
LG CNS Brasil Servicos de T.I.	consultation of IT systems	Indonesia	100.00%	100.00%
Ltda.(*2)	Management and consultation of IT systems	Brazil	100.00%	100.00%
LG CNS COLOMBIA SAS	Management and	Diuzii	100.0070	100.0070
	consultation of IT systems	Colombia	100.00%	100.00%
LG CNS MALAYSIA SDN BHD	Management and	Malaysia	100.00%	100.00%
LG CNS Saudi Arabia LLC	consultation of IT systems Management and	Malaysia	100.00%	100.00%
Zo er is suuur i muem zze	consultation of IT systems	Saudi Arabia	51.00%	51.00%
LG CNS JAPAN Co., Ltd.	Management and	_		
I C CNG HZDEVISTAN I I C	consultation of IT systems	Japan	100.00%	100.00%
LG CNS UZBEKISTAN, LLC	Management and consultation of IT systems	Uzbekistan	51.00%	51.00%
LG CNS VIETRAM CO., LTD.	Management and	CZOCKISTAII	31.0070	21.0070
	consultation of IT systems	Vietnam	100.00%	100.00%
LG CNS FUND I LLC	Investment Fund	America	100.00%	100.00%

<sup>(\*1)</sup> Disposed during the prior year

<sup>(\*2)</sup> Changed the company name during the prior year

The financial positions and performances of subsidiaries as of December 31, 2020, are as follows (Unit: Korean won in thousands):

	Financial information							
Subsidiary	Asset		Liability		Sales		Net income	
BizTech Partners Co., Ltd.	₩	39,598,723	₩	19,382,637	₩	110,446,444	₩	2,727,884
Haengbokmaru Co., Ltd.		1,830,944		501,254		2,578,926		37,878
Sejong Green Power Co., Ltd.		11,667,735		3,390,770		7,503,029		(14,699,214)
Open Source Consulting Co., Ltd		10,966,117		7,033,999		11,529,184		(1,971,945)
LG CNS PHILIPPINES, INC		-		3,372,964		-		-
LG CNS China Inc.		93,602,798		58,637,900		157,117,450		15,935,507
LG CNS Europe B.V.		47,842,842		38,743,979		79,552,667		3,773,360
LG CNS America, Inc.		40,350,335		34,232,368		75,325,921		2,457,251
LG CNS India Pvt., Ltd.		9,466,578		7,830,003		7,764,271		185,992
PT LG CNS Indonesia		2,874,770		5,470,931		5,256,942		(185,954)
Entrue Brasil Servicos de T.I. Ltda.		1,333,245		318,607		3,235,568		254,261
LG CNS COLOMBIA SAS		23,271,001		19,832,838		20,653,746		4,177,156
LG CNS MALAYSIA SDN BHD		1,763,948		3,802,402		7,527,579		(174,211)
LG CNS Saudi Arabia LLC		731		-		-		(42,123)
LG CNS JAPAN Co., Ltd.		9,026,696		2,291,958		8,834,885		(347,879)
LG CNS UZBEKISTAN, LLC		509,208		600,071		1,000,062		391,905
LG CNS VIETNAM, LLC		7,336,304		6,593,352		15,742,342		331,638
LG CNS FUND I LLC		13,582,174		2,295		-		(636,858)

#### (3) Business Combination

Acquisitions of businesses are accounted for using the acquisition method. The consideration transferred in a business combination is measured at fair value, which is calculated as the sum of the acquisition-date fair values of the assets transferred by the Group, liabilities incurred by the Group to the former owners of the acquiree and the equity interest issued by the Group in exchange for control of the acquiree. Acquisition-related costs are recognized in profit or loss as incurred.

At the acquisition date, the identifiable assets acquired and the liabilities assumed are recognized at their fair value at the acquisition date, except that:

- ① deferred tax assets or liabilities and liabilities or assets related to employee benefit arrangements are recognized and measured in accordance with K-IFRS 1012 Income Taxes and K-IFRS 1019 Employee Benefits, respectively;
- ② liabilities or equity instruments related to share-based payment arrangements of the acquiree or share-based payment arrangements of the Group entered into to replace share-based payment arrangements of the acquiree are measured in accordance with K-IFRS 1102 Share-based Payment at the acquisition date; and
- 3 assets (or disposal groups) that are classified as held for sale in accordance with K-IFRS 1105 Noncurrent Assets Held for Sale and Discontinued Operations are measured in accordance with that Standard.

Goodwill is measured as the excess of the sum of: a) the consideration transferred, b) the amount of any non-controlling interests in the acquiree, and c) the fair value of the acquirer's previously held equity interest in the acquiree (if any) over the net of the acquisition-date amounts of the identifiable assets acquired and the liabilities assumed. If, after reassessment, the net of the acquisition-date amounts of the identifiable assets acquired and liabilities assumed exceeds the sum of: a) the consideration transferred, b) the amount of any non-controlling interests in the acquiree, and c) the fair value of the acquirer's previously held interest in the acquiree (if any); the excess is recognized immediately in profit or loss as a bargain purchase gain.

When the consideration transferred by the Group in a business combination includes assets or liabilities resulting from contingent consideration arrangement, the contingent consideration is measured at its acquisition-date fair value and included as part of the consideration transferred in a business combination. Changes in fair value of the contingent consideration that qualify as measurement period adjustments are adjusted retrospectively, with corresponding adjustments against goodwill. Measurement period adjustments are adjustments that arise from additional information obtained during the 'measurement period' (which cannot exceed one year from the acquisition date) about facts and circumstances that existed at the acquisition date.

The subsequent accounting for changes in the fair value of the contingent consideration that do not qualify as measurement period adjustments depends on how the contingent consideration is classified. Contingent consideration that is classified as equity is not remeasured at subsequent reporting dates and its subsequent settlement is accounted for within equity. Contingent consideration that is classified as an asset or a liability is remeasured at subsequent reporting dates in accordance with K-IFRS 1039 Financial Instruments: Recognition and Measurement, or K-IFRS 1037 Provisions, Contingent Liabilities and Contingent Assets, as appropriate, with the corresponding gain or loss being recognized in profit or loss.

When a business combination is achieved in stages, the Group's previously held interests in the acquired entity are remeasured as its acquisition-date (of which the Group obtains control) fair value and the resulting gain or loss, if any, is recognized in profit or loss or other comprehensive income. Amounts arising from interests in the acquiree prior to the acquisition date that have previously been recognized in other comprehensive income are reclassified to profit or loss under the same standards would be appropriate if that interest was disposed of.

If the initial accounting for a business combination is incomplete by the end of the reporting period in which the combination occurs, the Group reports provisional amounts for the items for which the accounting is incomplete. Those provisional amounts are adjusted during the measurement period (see above), or additional assets or liabilities are recognized, to reflect new information obtained about facts and circumstances that existed as of the acquisition date that, if known, would have affected the amounts recognized as of that date.

# (4) Affiliates and joint ventures

An associate is an entity that has significant influence and is not a subsidiary or joint venture. Significant influence is the ability to participate in the financial and operating policies of the investee and not to have control or joint control over those policies.

A joint venture is a joint arrangement in which the parties holding joint control of the agreement have the right to net assets of the arrangement and the joint control is a contractual agreement on the control of the arrangement. It exists only when the consent of the entire sharing parties is required.

Unless an investment in an associate or a joint venture is classified as a held for sale under K-IFRS 1105 "Non-current Assets Held for Sale and Discontinued Operations," the net profit or loss is included in the consolidated financial statements by applying the equity method of accounting. In applying the equity method, investments in associates and joint ventures are carried at the acquisition cost, less any impairment loss on the investments in associates and joint ventures, adjusted for changes in equity in the net assets of associates and joint ventures are presented in the consolidated financial statements. Losses of associates and joint ventures that exceed the interests of the Group in relation to the associates and joint ventures (including long-term investments that actually form part of the net investments of the Group and the joint ventures) are recognized only when the entity has a legal or constructive obligation or is required to make payments on behalf of the joint venture.

Investments in associates and joint ventures are accounted for using the equity method from the date the investee becomes an associate or joint venture. Fair value of identifiable assets, liabilities and contingent liabilities of associates and joint ventures at the acquisition date, net of acquisition costs greater than the Group's interest is recognized as goodwill, and goodwill is included in the carrying amount of the investment. If the Group's interest in the net fair value of the identifiable assets, liabilities and contingent liabilities exceeds the cost of acquisition, even after reassessment, it is recognized in profit or loss.

The Group determines whether an impairment loss is recognized in respect of investments in associates and joint ventures in accordance with K-IFRS 1028, 'Investments in associates and joint ventures.' If there is an indication of impairment, the total carrying amount of the associate and joint venture (including goodwill) is compared to the recoverable amount (the greater of net fair value and value in use) in accordance with K-IFRS 1028. The recognized impairment loss is not allocated to any assets (including goodwill) that are part of the carrying amount of the associate and the joint venture. The reversal of the impairment loss is recognized in accordance with K-IFRS 1036 as the recoverable amount of the investment asset subsequently increases.

The Group ceases to use the equity method when it ceases to meet the definition of an associate or joint venture. If the entity has retained some of the investment assets of existing associates and joint ventures even after it has lost significant influence over the associates and joint ventures, the fair value of the investment assets at the point when the significant influence is lost are considered to be the fair value at the initial recognition of the financial asset in accordance with Note 1109. The difference between the carrying amount and fair value of the investment assets held is recognized in profit or loss, including gains (losses) on disposal of associates (or jointly controlled entities). In addition, the investor accounts for all amounts recognized in other comprehensive income in relation to the associates and joint venture on the same basis as the accounting treatment of associates and joint ventures when the related assets or liabilities are disposed of directly. Therefore, if the gain or loss previously recognized in other comprehensive income is reclassified to profit or loss as a result of the disposal of the related asset or liability, the Group derecognizes gains or losses from equity when the entity has lost significant influence over the associate and the joint venture reclassified to profit or loss (reclassification adjustment).

If the equity method is applied consistently while the ownership interest in the associate or joint venture is reduced, but the gain or loss previously recognized in other profit or loss is reclassified to profit or loss as a result of disposal of the related asset or liability, the proportionate portion of the decrease in ownership interest is reclassified to profit or loss. In addition, K-IFRS 1105 is applied when a portion of investments in associates or joint ventures is classified as held for sale.

When an investment in an associate is a joint venture or, conversely, a joint venture is an investment in an associate, the Group continues to apply the equity method and does not remeasure any residual equity.

When an entity transacts with an associate or a joint venture, the gain or loss on the transaction between the associate and the joint venture is included in the consolidated financial statements of the Group.

# (5) Goodwill

Goodwill arising on an acquisition of a business is carried at cost, as established at the date of acquisition of the business, less accumulated impairment losses, if any.

For the purpose of impairment testing, goodwill is allocated to each of the Group's cash-generating units that is expected to benefit from the synergies of the combination.

A cash-generating unit to which goodwill has been allocated is tested for impairment annually or more frequently when there is indication that the unit may be impaired. If the recoverable amount of the cash-generating unit is less than its carrying amount, the impairment loss is allocated first to reduce the carrying amount of any goodwill allocated to the unit and then to the other assets of the unit on a pro rata basis, based on the carrying amount of each asset in the unit. Any impairment loss for goodwill is recognized directly in profit or loss in the consolidated statements of comprehensive income. An impairment loss recognized for goodwill is not reversed in subsequent periods.

On disposal of the relevant cash-generating unit, the attributable amount of goodwill is included in the determination of the profit or loss on disposal.

The group's accounting policies for goodwill arising from the acquisition of an associate are described in Note 2.(4).

#### (6) Revenue recognition

The Group recognizes revenue from sale of goods, service and construction contracts

#### 1) Sale of goods

The Group recognizes revenue from sale of goods when significant risks and rewards from ownership of goods have been transferred and retains neither continuing managerial involvement to the degree usually associated with ownership nor effective control over the goods. Therefore, the Group recognizes revenue for the manufactured goods at acceptance and merchandises at delivery. Revenue is recognized by estimating the total amount of returns expected monthly by using the expected return period and the return rate, and based on past experience, in case of a return condition transaction with a low importance of the amount, the entire amount of the sale is recognized as revenue.

At the point of sale, a refund liability and a corresponding adjustment to revenue is recognized for those products expected to be returned. At the same time, the Group has a right to recover the product when customers exercise their right of return; so consequently recognizes a right to returned goods asset and a corresponding adjustment to cost of sales. Previously, these effects were recognized as warranty provisions.

#### 2) Rendering of service

The Group recognizes revenue from rendering of service using percentage-of-completion method when the outcome of the transaction can be estimated reliably; stage of completion at reporting date, including costs incurred; and the cost to complete the transaction can be measured reliably.

#### 3) Construction contracts

The project that are developed to suit the customer's characteristics are recognized as revenue over time because the assets the Group has created do not have an alternative use to themselves, and they have the right to enforceable payment for performance completed. Therefore, revenue from construction contracts is recognized over time on a cost-based input method (i.e., based on the proportion of contract costs incurred for work performed to date relative to the estimated total contract costs). The directors consider that this input method is an appropriate measure of the progress toward complete satisfaction of these performance obligations under K-IFRS 1115.

Where the outcome of a construction contract can be estimated reliably, revenue and costs are recognized by reference to the stage of completion of the contract activity at the end of the reporting period, measured based on the proportion of contract costs incurred for work performed to date relative to the estimated total contract costs, except where this would not be representative of the stage of completion. Variations in contract work, claims and incentive payments are included to the extent that the amount can be measured reliably, and its receipt is considered probable.

Where the outcome of a construction contract cannot be estimated reliably, contract revenue is recognized to the extent of contract costs incurred that are probable to be recovered. Contract costs are recognized as expenses in the period in which they are incurred.

When it is probable that total contract costs will exceed total contract revenue, the expected loss is recognized as an expense immediately.

The amount added from the recognized profit to the accumulated accrued costs exceeding the amount claimed for progress, is classified as contract assets, and the amount claimed for progress exceeding the amount added the recognized profit to the accumulated accrued costs, is indicated as contract liabilities. Amounts received before the related work is performed are included in the consolidated statements of financial position, as a liability, as advances received. Amounts billed for work performed, but not yet paid by the customer, are included in the consolidated statements of financial position under trade and other receivables.

#### (7) Leases

The Group has chosen the cumulative catch-up approach at the date of initial application of K-IFRS 1116. Therefore, the Group does not restate the comparative information. The detailed accounting policies that applied under K-IFRS 1017 and K-IFRS 1116 are below:

1) Accounting policy applied on or after January 1, 2019

#### 1-1) The Group as lessee

The Group assesses whether a contract is or contains a lease, at inception of the contract. The Group recognizes a right-of-use asset and a corresponding lease liability with respect to all lease arrangements in which it is the lessee, except for short-term leases (defined as leases with a lease term of 12 months or less) and leases of low-value assets (such as tablets and personal computers, small items of office furniture and telephones). For these leases, the Group recognizes the lease payments as an operating expense on a straight-line basis over the term of the lease unless another systematic basis is more representative of the time pattern in which economic benefits from the leased assets are consumed.

The lease liability is initially measured at the present value of the lease payments that are not paid at the commencement date. The lease payments is discounted using the interest rate implicit in the lease if that rate can be readily determined, but if that rate cannot be readily determined, the Group uses lessees' incremental borrowing rate.

Lease payments included in the measurement of the lease liability comprise:

- •Fixed lease payments (including in-substance fixed payments), less any lease incentives receivable;
- •Variable lease payments that depend on an index or rate, initially measured using the index or rate at the commencement date;
- •The amount expected to be payable by the lessee under residual value guarantees;
- •The exercise price of purchase options, if the lessee is reasonably certain to exercise the options; and
- •Payments of penalties for terminating the lease, if the lease term reflects the exercise of an option to terminate the lease.

The lease liability is presented as a separate line in the consolidated statements of financial position.

The lease liability is subsequently measured by increasing the carrying amount to reflect interest on the lease liability (using the effective interest method) and by reducing the carrying amount to reflect the lease payments made.

The Group remeasures the lease liability (and makes a corresponding adjustment to the related right-of-use asset) whenever:

- •The lease term has changed or there is a significant event or change in circumstances resulting in a change in the assessment of exercise of a purchase option, in which case the lease liability is remeasured by discounting the revised lease payments using a revised discount rate.
- •The lease payments change due to changes in an index or rate or a change in expected payment under a guaranteed residual value, in which cases the lease liability is remeasured by discounting the revised lease payments using an unchanged discount rate (unless the lease payments change is due to a change in a floating interest rate, in which case a revised discount rate is used).
- •A lease contract is modified and the lease modification is not accounted for as a separate lease, in which case the lease liability is remeasured based on the lease term of the modified lease by discounting the revised lease payments using a revised discount rate at the effective date of the modification.

The right-of-use assets comprise the initial measurement of the corresponding lease liability, lease payments made at or before the commencement day, less any lease incentives received and any initial direct costs. They are subsequently measured at cost, less accumulated depreciation and impairment losses.

Whenever the Group incurs an obligation for costs to dismantle and remove a leased asset, restore the site on which

it is located or restore the underlying asset to the condition required by the terms and conditions of the lease, a provision is recognized and measured under IK-IFRS 1037. To the extent that the costs relate to a right-of-use asset, the costs are included in the related right-of-use asset, unless those costs are incurred to produce inventories.

Right-of-use assets are depreciated over the shorter period of lease term and useful life of the underlying asset. If a lease transfer ownership of the underlying asset or the cost of the right-of-use asset reflects that the Group expects to exercise a purchase option, the related right-of-use asset is depreciated over the useful life of the underlying asset. The depreciation starts at the commencement date of the lease.

The right-of-use assets are presented as a separate line in the consolidated statements of financial position.

The Group applies K-IFRS 1036 to determine whether a right-of-use asset is impaired and accounts for any identified impairment loss as described in the 'Property, Plant and Equipment' policy.

Variable rents that do not depend on an index or rate are not included in the measurement of the lease liability and the right-of-use asset. The related payments are recognized as an expense in the period in which the event or condition that triggers those payments occurs and are included in profit or loss.

As a practical expedient, K-IFRS 1116 permits a lessee not to separate non-lease components, and instead account for any lease and associated non-lease components as a single arrangement. The Group has not used this practical expedient. For contracts that contain a lease component and one or more additional lease or non-lease components, the Group allocates the consideration in the contract to each lease component on the basis of the relative stand-alone price of the lease components and the aggregate stand-alone price of the non-lease components.

#### 1-2) The Group as lessor

The Group enters into lease agreements as a lessor with respect to some of its investment properties. The Group also rents equipment to retailers necessary for the presentation and customer fitting and testing of footwear and equipment manufactured by the Group.

Leases for which the Group is a lessor are classified as finance or operating leases. Whenever the terms of the lease transfer substantially all the risks and rewards of ownership to the lessee, the contract is classified as a finance lease. All other leases are classified as operating leases.

When the Group is an intermediate lessor, it accounts for the head lease and the sub-lease as two separate contracts. The sub-lease is classified as a finance or operating lease by reference to the right-of-use asset arising from the head lease.

Rental income from operating leases is recognized on a straight-line basis over the term of the relevant lease. Initial direct costs incurred in negotiating and arranging an operating lease are added to the carrying amount of the leased asset and recognized on a straight-line basis over the lease term.

Amounts due from lessees under finance leases are recognized as receivables at the amount of the Group's net investment in the leases. Finance lease income is allocated to accounting periods so as to reflect a constant periodic rate of return on the Group's net investment outstanding in respect of the leases .

Subsequent to initial recognition, the Group regularly reviews the estimated unguaranteed residual value and applies the impairment requirements of K-IFRS 1109, recognizing an allowance for expected credit losses on the lease receivables.

Finance lease income is calculated with reference to the gross carrying amount of the lease receivables, except for credit-impaired financial assets for which interest income is calculated with reference to their amortized cost (i.e., after a deduction of the loss allowance).

When a contract includes both lease and non-lease components, the Group applies K-IFRS 1115 to allocate the consideration under the contract to each component .

#### (8) Foreign currency translation

The individual financial statements of each of the consolidated entities are presented in the currency of the primary economic environment in which the entity operates (the functional currency). In order to prepare consolidated financial statements, each entity's performance and financial position are expressed in 'Korean won,' which is the functional currency of the Group and the presentation currency of the consolidated financial statements.

In preparation of the Group's consolidated financial statements, any transaction that occurred in currency other than its functional currency will be recorded in translated amount using the exchange rate of the transaction. At the end of the reporting period, all monetary assets and liabilities will be translated using the exchange rate at the end of the reporting date. Meanwhile, non-monetary assets and liabilities measured at fair value will be retranslated using the exchange rate on the day of fair value evaluation, whereas non-monetary assets and liabilities measured at historical cost will not be translated.

Exchange differences are recognized in profit or loss in the period in which they arise, except for:

- Exchange differences on foreign currency borrowings relating to assets under construction for future productive use, which are included in the cost of those assets when they are regarded as an adjustment to interest costs on those foreign currency borrowings.
- Exchange differences on transactions entered into in order to hedge certain foreign currency risks.
- Foreign exchange differences arising from monetary items that form part of the net investment in a
  foreign establishment as a bond or obligation that has no plans to settle in the foreseeable future for a
  foreign operation and is unlikely to be settled. Such exchange differences are recognized in other
  comprehensive income and reclassified from equity to profit or loss at the time of disposal or partial
  disposal of the net investment.

In order to prepare consolidated financial statements, the assets and liabilities of foreign entities included in the Group are presented using the exchange rates at the end of the reporting period. Unless the foreign currency exchange rate fluctuates significantly during the year and the exchange rate at the transaction date is not required to be used, the items of profit or loss are translated at the average exchange rate for the period. Foreign exchange differences arising therefrom are recognized in other comprehensive income.

In case of disposing of overseas business sites (i.e., the disposal of all of the equity of the Group's overseas business sites; the disposal of loss of control over the subsidiary, including the overseas business sites; the partial disposal of the interests of the joint venture), the Group reclassifies all foreign currency exchange differences related to the foreign operations attributable to the parent's profit or loss. The cumulative exchange differences related to the foreign operations attributable to non-controlling interests are eliminated, but not reclassified to profit or loss.

For certain disposals that do not result in a loss of control of a subsidiary, including its foreign operations, the proportionate share of the accumulated foreign exchange differences is reassigned to non-controlling interests and is not reclassified to profit or loss. For all other disposals (i.e., a decrease in ownership interest in an associate or joint venture of a group that does not result in significant influence or loss of joint control), the proportionate share of the accumulated foreign exchange differences is recognized in profit or loss that is reclassified.

Fair value adjustments for goodwill and identifiable assets and liabilities arising from the acquisition of foreign operations are recognized in the consolidated statements of income as assets and liabilities at the foreign operations and at the end of the reporting period.

# (9) Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use or sale, are added to the cost of those assets, until such time as the assets are substantially ready for their intended use or sale.

If borrowings are borrowed at variable interest rates to acquire qualifying assets and the borrowings are subject to qualifying cash flow hedges of interest rate risk, the effective portion of the derivative is recognized in other

comprehensive income and reclassified to profit or loss when qualifying assets affect the profit or loss. If borrowings are borrowed at fixed interest rates to acquire qualifying assets and the borrowings are subject to fair value hedges of interest rate risk, capitalized borrowing costs reflect the interest rate to be hedged.

Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalization. All other borrowing costs are recognized in profit or loss in the period in which they are incurred.

#### (10) Government grants

Government grants are recognized when criteria for government grants are complied with and receipt is reasonably assured. If government grants are awarded for acquisition, and construction of tangible assets, it is recognized by deducting the grant amount from the asset and is depreciated using a systematic and reasonable method over the useful life of the asset.

Other government grants are recognized as revenue using a systematic standard to match the cost it is intended to reimburse. Government grants that reimburse losses incurred in the prior period or government grants awarded without further costs incurred are recognized in profit or loss of the period in which the rights to that grant arise.

Government grants to cover the cost of training employees are recognized in profit or loss over the period required to respond to the related costs and are deducted from related costs. Government grants relating to the acquisition of property, plant and equipment are recognized in profit or loss for their useful lives, net of the carrying amount of the asset.

#### (11) Retirement benefit cost

Contributions to defined contribution retirement benefit plans are recognized as an expense when employees have rendered service entitling them to the contributions.

For defined benefit retirement benefit plans, the cost of providing benefits is determined using the projected unit credit method, with actuarial valuations being carried out at the end of each reporting period. Remeasurement, comprising actuarial gains and losses, the effect of the changes to the asset ceiling (if applicable) and the return on plan assets (excluding interest), is reflected immediately in the consolidated statements of financial position with a charge or credit recognized in other comprehensive income in the period in which they occur. Remeasurement recognized in other comprehensive income is reflected immediately in retained earnings and will not be reclassified to profit or loss; income are not reclassified. Past service cost is recognized in profit or loss when the plan amendment or curtailment occurs, or when the Group recognizes related restructuring costs or termination benefits, if earlier.

Net interest is calculated by applying a discount rate to the net defined benefit liability or asset. Defined benefit costs are split into three categories:

- service costs, which includes current service cost, past service cost and gains and losses on curtailments and settlements;
- net interest expense or income; and
- remeasurements

Net interest expense or income is recognized within finance costs, and the remeasurement component in other comprehensive income. Curtailment gains and losses are accounted for as past service costs.

The retirement benefit obligation recognized in the consolidated statements of financial position represents the actual deficit or surplus in the Group's defined benefit plans. Any surplus resulting from this calculation is limited to the present value of any economic benefits available in the form of refunds from the plans or reductions in future contributions to the plans.

A liability for a termination benefit is recognized at the earlier of when the entity can no longer withdraw the offer of the termination benefit and when the entity recognizes any related restructuring costs.

The welfare contribution of an employee or a third party is reducing the cost of work when such contribution to the system is paid. When it is specified that there will be contributions from an employee or a third party to the formal agreement of the scheme, the accounting will depend on whether the contribution is linked to the service as follows:

- If the contribution is not linked to work services (for example, contributions to reduce underwriting losses from loss of plan assets or loss of insurance premiums), contributions will affect remeasurement of net defined benefit liabilities (assets).
- If the contribution is linked to work services, the contribution reduces the cost of the work. For contributions determined by the number of years of service, we allocate contributions to the total pay for the duration of the service according to the allocation method required by paragraph 70 of K-IFRS 1109. On the other hand, for service years and independent contributions, the Group recognizes these contributions as a reduction in the cost of services rendered during the period in which the related services are provided.

# (12) Current tax payable and deferred tax

Income tax expense consists of current tax and deferred tax.

#### 1) Current tax payable

The tax currently payable is based on taxable profit for the year. Taxable profit differs from profit as reported in the consolidated statements of comprehensive income because of items of income or expense that are taxable or deductible in other years and items that are never taxable or deductible. The Group's liability for current tax is calculated using tax rates that have been enacted or substantively enacted by the end of the reporting period. A provision is recognized for those matters for which the tax determination is uncertain, but it is considered probable that there will be a future outflow of funds to a tax authority. The provisions are measured at the best estimate of the amount expected to become payable. The assessment is based on the judgement of tax professionals within the Group supported by previous experience in respect of such activities and in certain cases based on specialist independent tax advice.

#### 2) Deferred tax

Deferred tax is the tax expected to be payable or recoverable on differences between the carrying amounts of assets and liabilities in the consolidated financial statements and the corresponding tax bases used in the computation of taxable profit, and is accounted for using the liability method. Deferred tax liabilities are generally recognized for all taxable temporary differences. Deferred tax assets are generally recognized for all deductible temporary differences to the extent it is probable that taxable profits will be available against which those deductible temporary differences can be utilized. Such deferred tax assets and liabilities are not recognized if the temporary difference arises from goodwill or from the initial recognition (other than in a business combination) of other assets and liabilities in a transaction that affects neither the taxable profit nor the accounting profit.

The Group recognizes a deferred tax liability for all taxable temporary differences associated with investments in subsidiaries, branches and associates, and interests in joint arrangements, except to the extent that the Group is able to control the timing of the reversal of the temporary difference, and it is probable that the temporary difference will not reverse in the foreseeable future. A deferred tax asset for all deductible temporary differences arising from above-mentioned investments is recognized to the extent, and only to the extent, that it is probable that the temporary difference will reverse in the foreseeable future and taxable profit will be available against which the temporary difference can be utilized. The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent it is no longer probable that sufficient taxable profits will be available to allow all or part of the asset to be recovered.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the period in which the liability is settled or the asset is realized, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period. The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the Group expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

Deferred tax assets and liabilities are offset if, and only if the Group has a legally enforceable right to set off current tax assets against current tax liabilities, and the deferred tax assets and liabilities relate to income taxes levied by the same taxation authority on either the same taxable entity or different taxable entities that intend either to settle current tax liabilities and assets on a net basis, or to realize the assets and settle the liabilities simultaneously, in each future period in which significant amounts of deferred tax liabilities or assets are expected to be settled or recovered.

For the purpose of measuring deferred tax liabilities and deferred tax assets for investment properties that are measured using the fair value model, the carrying amounts of such properties are presumed to be recovered entirely through sale, unless the presumption is rebutted. The presumption is rebutted when the investment property is depreciable and is held within a business model whose objective is to consume substantially all of the economic benefits embodied in the investment properties over time, rather than through sale.

# 3) Recognition of current tax payable and deferred tax

Current and deferred tax are recognized in profit or loss, except when they relate to items that are recognized in other comprehensive income or directly in equity, in which case, the current and deferred tax are also recognized in other comprehensive income or directly in equity respectively. Where current tax or deferred tax arises from the initial accounting for a business combination, the tax effect is included in the accounting for the business combination.

# (13) Property, plant and equipment

Property, plant and equipment are stated at cost, less subsequent accumulated depreciation and accumulated impairment losses. The cost of an item of property, plant and equipment is directly attributable to its purchase or construction, which includes any costs directly attributable to bringing the asset to the location, in working condition, as intended by management. It also includes the initial estimate of the costs of dismantling and removing the item and restoring the site on which it is located.

Subsequent costs are recognized at the carrying amount of an asset, or as an asset, if it is probable that future economic benefits associated with the assets will flow to the Group and the cost of the asset can be measured reliably. Routine maintenance and repairs are expensed as incurred.

The Group does not depreciate land and some tangible assets. Depreciation is computed using the straight-line method, based on the estimated useful lives of the assets as follows:

	Estimated useful lives (years)
Buildings	25–40
Structures	40
Machinery	4
Vehicles	4–5
Tools and equipment	4
Furniture and fixtures	3–25
Others	3–20

If each part of an item of property, plant and equipment has a cost that is significant in relation to the total cost of the item, it is depreciated separately.

The Group reviews the depreciation method, the estimated useful lives and residual values of property, plant and equipment at the end of each annual reporting period. If expectations differ from previous estimates, the changes are accounted for as a change in accounting estimate.

An item of property, plant and equipment is derecognized upon disposal or when no future economic benefits are expected to arise from the continued use of the asset. Any gain or loss arising on derecognition of the property (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in profit or loss in the period in which the property is derecognized.

#### (14) Investment property

Investment properties are properties held to earn rentals and/or for capital appreciation (including property under construction for such purposes). Investment properties are measured initially at cost, including transaction costs. Subsequent to initial recognition, investment properties are reported at cost, less accumulated depreciation and accumulated impairment losses.

Subsequent costs are recognized in carrying amount of an asset or as a separate asset if it is probable that future economic benefits associated with the assets will flow into the Group and the cost of an asset can be measured reliably. Routine maintenance and repairs are expensed as incurred.

While land is not depreciated, all other investment property is depreciated based on the respective assets estimated useful lives ranging from 25–40 years using the straight-line method.

The estimated useful lives, residual values and depreciation method are reviewed at the end of each reporting period, with the effect of any changes in estimate accounted for on a prospective basis.

An investment property is derecognized upon disposal or when the investment property is permanently withdrawn from use and no future economic benefits are expected from the disposal. Any gain or loss arising on derecognition of the property (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in profit or loss in the period in which the property is derecognized.

# (15) Intangible assets

# 1) Intangible assets acquired separately

Intangible assets with finite useful lives that are acquired separately are carried at cost, less accumulated amortization and accumulated impairment losses. Amortization is recognized on a straight-line basis over their estimated useful lives. The estimated useful life and amortization method are reviewed at the end of each reporting period, with the effect of any changes in estimate being accounted for on a prospective basis. Intangible assets with indefinite useful lives that are acquired separately are carried at cost, less accumulated impairment losses.

2) Internally generated intangible assets - research and development expenditure Expenditure on research activities is recognized as an expense in the period in which it is incurred.

An internally generated intangible asset arising from development (or from the development phase of an internal project) is recognized if, and only if, all of the following conditions have been demonstrated:

- •the technical feasibility of completing the intangible asset so that it will be available for use or sale;
- •the intention to complete the intangible asset and use or sell it;
- •the ability to use or sell the intangible asset;
- •how the intangible asset will generate probable future economic benefits;
- •the availability of adequate technical, financial and other resources to complete the development and to use or sell the intangible asset; and
- •the ability to measure reliably the expenditure attributable to the intangible asset during its development.

The amount initially recognized for internally generated intangible assets is the sum of the expenditure incurred from the date when the intangible asset first meets the recognition criteria listed above. Where no internally generated intangible asset can be recognized, development expenditure is recognized in profit or loss in the period in which it is incurred.

Subsequent to initial recognition, internally generated intangible assets are reported at cost, less accumulated amortization and accumulated impairment losses, on the same basis as intangible assets that are acquired separately.

#### 3) Intangible assets acquired in a business combination

Intangible assets that are acquired in a business combination are recognized separately from goodwill and are initially recognized at their fair value at the acquisition date (which is regarded as their cost).

Subsequent to initial recognition, intangible assets acquired in a business combination are reported at cost, less

accumulated amortization and accumulated impairment losses, on the same basis as intangible assets that are acquired separately.

# 4) Derecognition of intangible assets

An intangible asset is derecognized on disposal or when no future economic benefits are expected from its use or disposal. Gains or losses arising from derecognition of an intangible asset, measured as the difference between the net disposal proceeds and the carrying amount of the asset, are recognized in profit or loss when the asset is derecognized.

#### 5) Patent rights and trademarks

Patents and trademarks are initially measured at acquisition cost and amortized at a straight-line method over the estimated useful life.

# (16) Impairment of tangible and intangible assets other than goodwill

At each reporting date, the Group reviews the carrying amounts of its tangible and intangible assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss (if any). When it is not possible to estimate the recoverable amount of an individual asset, the Group estimates the recoverable amount of the cash-generating unit to which the asset belongs. Where a reasonable and consistent basis of allocation can be identified, corporate assets are also allocated to individual cash-generating units, or otherwise they are allocated to the smallest group of cash-generating units for which a reasonable and consistent allocation basis can be identified.

Intangible assets with indefinite useful lives and intangible assets not yet available for use are tested for impairment at least annually, and whenever there is an indication that the asset may be impaired.

Recoverable amount is the higher of fair value, less costs to sell or value in use. If the recoverable amount of an asset (or a cash-generating unit) is estimated to be less than its carrying amount, the carrying amount of the asset (or the cash-generating unit) is reduced to its recoverable amount and the reduced amount is recognized in profit or loss.

Where an impairment loss subsequently reverses, the carrying amount of the asset (or a cash-generating unit) is increased to the revised estimate of its recoverable amount, so that the increased carrying amount does not exceed the carrying amount that would have been determined had no impairment loss been recognized for the asset (or the cash-generating unit) in prior years. A reversal of an impairment loss is recognized immediately in profit or loss.

#### (17) Inventories

Inventories are stated at the lower of cost or net realizable value. Cost of inventories, except for those in transit, is measured using the weighted-average method on a first-in, first-out basis and consists of the purchase price, cost of conversion and other costs incurred in bringing the inventories to their present location and condition. Net realizable value represents the estimated selling price for inventories, less all estimated costs of completion and costs necessary to make the sale.

The carrying amount of inventories sold in the period and the amount of any write-down of inventories to net realizable value and all losses of inventories in the period, less the amount of any reversal in the period of any write-down of the inventories, arising from an increase in net realizable value are recognized as expense during the period.

# (18) Provisions

Provisions are recognized when the Group has a present obligation (legal or constructive) as a result of a past event, it is probable that the Group will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

The amount recognized as a provision is the best estimate of the consideration required to settle the present obligation at the end of the reporting period, taking into account the risks and uncertainties surrounding the obligation. When a provision is measured using the cash flows estimated to settle the present obligation, its carrying

amount is the present value of those cash flows (where the effect of the time value of money is material).

When some, or all, of the economic benefits required to settle a provision are expected to be recovered from a third party, a receivable is recognized as an asset if it is virtually certain that reimbursement will be received and the amount of the receivable can be measured reliably.

At the end of each reporting period, the remaining provision balance is reviewed and assessed to determine if the current best estimate is being recognized. If the existence of an obligation to transfer economic benefit is no longer probable, the related provision is reversed during the period.

#### 1) Onerous contracts

Present obligations arising under onerous contracts are recognized and measured as provisions. An onerous contract is considered to exist where the Group has a contract under which the unavoidable costs of meeting the obligations under the contract exceed the economic benefits expected to be received from the contract.

#### 2) Restructuring

The consolidation entity has established an official and specific plan for restructuring and recognizes the restructuring provision when the parties affected by the restructuring have legitimate expectations that the group will carry out the restructuring by initiating the implementation of the restructuring plan or issuing key details of the restructuring to the parties affected by the restructuring. Only expenditures that occur directly in connection with restructuring are measured at the amount of restructuring provision that are not related to the ongoing activities of the entity.

#### 3) Warranties

Provisions for the expected cost of warranty obligations under local sale of goods legislation are recognized at the date of sale of the relevant products at the directors' best estimate of the expenditure required to settle the Group's obligation.

#### 4) Restoration provisions

Provisions for the costs to restore leased plant assets to their original condition, as required by the terms and conditions of the lease, are recognized when the obligation is incurred, either at the commencement date or as a consequence of having used the underlying asset during a particular period of the lease, at the directors' best estimate of the expenditure that would be required to restore the assets. Estimates are regularly reviewed and adjusted as appropriate for new circumstances.

# 5) Contingent liabilities acquired in a business combination

Contingent liabilities acquired in a business combination are initially measured at fair value at the acquisition date. At the end of subsequent reporting periods, such contingent liabilities are measured at the higher of the amount that would be recognized in accordance with K-IFRS 1037 *Provisions, Contingent Liabilities and Contingent Assets*, or the amount initially recognized, less cumulative amortization recognized in accordance with K-IFRS 1115 *Revenue*.

# (19) Financial Instruments

Financial assets and financial liabilities are recognized in the Group's consolidated statements of financial position when the Group becomes a party to the contractual provisions of the instrument. Financial assets and financial liabilities are initially measured at fair value, except for trade receivables that do not have a significant financing component, which are measured at transaction price. Transaction costs that are directly attributable to the acquisition or issue of financial assets and financial liabilities (other than financial assets and financial liabilities at fair value through profit or loss (FVTPL)) are added to or deducted from the fair value of the financial assets or financial liabilities, as appropriate, on initial recognition. Transaction costs directly attributable to the acquisition of financial assets or financial liabilities at FVTPL are recognized immediately in profit or loss.

#### (20) Financial assets

All regular-way purchases or sales of financial assets are recognized and derecognized on a trade-date basis. Regular-way purchases or sales are purchases or sales of financial assets that require delivery of assets within the

time frame established by regulation or convention in the marketplace.

All recognized financial assets are measured subsequently in their entirety at either amortized cost or fair value, depending on the classification of the financial assets.

#### 1) Classification of financial assets

Debt instruments that meet the following conditions are measured subsequently at amortized cost:

- the financial asset is held within a business model whose objective is to hold financial assets in order to collect contractual cash flows and
- the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

Debt instruments that meet the following conditions are measured subsequently at fair value through other comprehensive income (FVTOCI):

- the financial asset is held within a business model whose objective is achieved by both collecting contractual cash flows and selling the financial assets and
- the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

By default, all other financial assets are measured subsequently at FVTPL.

Despite the foregoing, the Group may make the following irrevocable election / designation at initial recognition of a financial asset:

- the Group may irrevocably elect to present subsequent changes in fair value of an equity investment in other comprehensive income if certain criteria are met (see (1-3) below) and
- the Group may irrevocably designate a debt investment that meets the amortized cost or FVTOCI criteria as measured at FVTPL if doing so eliminates or significantly reduces an accounting mismatch (see (1-4) below).

#### 1-1) Amortized cost and effective interest method

The effective interest method is a method of calculating the amortized cost of a debt instrument and of allocating interest income over the relevant period. For financial assets other than purchased or originated credit-impaired financial assets (i.e., assets that are credit impaired on initial recognition), the effective interest rate is the rate that exactly discounts estimated future cash receipts (including all fees and points paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts), excluding expected credit losses, through the expected life of the debt instrument, or, where appropriate, a shorter period, to the gross carrying amount of the debt instrument on initial recognition. For purchased or originated credit-impaired financial assets, a credit-adjusted effective interest rate is calculated by discounting the estimated future cash flows, including expected credit losses, to the amortized cost of the debt instrument on initial recognition.

The amortized cost of a financial asset is the amount at which the financial asset is measured at initial recognition minus the principal repayments, plus the cumulative amortization using the effective interest method of any difference between that initial amount and the maturity amount, adjusted for any loss allowance. The gross carrying amount of a financial asset is the amortized cost of a financial asset before adjusting for any loss allowance.

Interest income is recognized using the effective interest method for debt instruments measured subsequently at amortized cost and at FVTOCI. For financial assets other than purchased or originated credit-impaired financial assets, interest income is calculated by applying the effective interest rate to the gross carrying amount of a financial asset, except for financial assets that have subsequently become credit impaired (see below). For financial assets that have subsequently become credit impaired by applying the effective interest rate to the amortized cost of the financial asset. If, in subsequent reporting periods, the credit risk on the credit-impaired financial instrument improves so that the financial asset is no longer credit impaired, interest income is recognized by applying the effective interest rate to the gross carrying amount of the financial asset.

For purchased or originated credit-impaired financial assets, the Group recognizes interest income by applying the credit-adjusted effective interest rate to the amortized cost of the financial asset from initial recognition. The calculation does not revert to the gross basis even if the credit risk of the financial asset subsequently improves so that the financial asset is no longer credit impaired.

Interest income is recognized in profit or loss and is included in the "finance income - interest income" line item (see note 25).

#### 1-2) Debt instruments classified as at FVTOCI

The corporate bonds held by the Group are classified as at FVTOCI. Fair value is determined in the manner described in Note 34. The corporate bonds are initially measured at fair value plus transaction costs. Subsequently, changes in the carrying amount of these corporate bonds as a result of foreign exchange gains and losses, impairment gains or losses, and interest income calculated using the effective interest method are recognized in profit or loss. The amounts that are recognized in profit or loss are the same as the amounts that would have been recognized in profit or loss if these corporate bonds had been measured at amortized cost. All other changes in the carrying amount of these corporate bonds are recognized in other comprehensive income and accumulated under the heading of investments revaluation reserve. When these corporate bonds are derecognized, the cumulative gains or losses previously recognized in other comprehensive income are reclassified to profit or loss.

# 1-3) Equity instruments designated as at FVTOCI

On initial recognition, the Group may make an irrevocable election (on an instrument-by-instrument basis) to designate investments in equity instruments as at FVTOCI. Designation at FVTOCI is not permitted if the equity investment is held for trading or if it is contingent consideration recognized by an acquirer in a business combination.

Investments in equity instruments at FVTOCI are initially measured at fair value plus transaction costs. Subsequently, they are measured at fair value with gains and losses arising from changes in fair value recognized in other comprehensive income and accumulated in the investments revaluation reserve. The cumulative gain or loss is not reclassified to profit or loss on disposal of the equity investments, instead, it is transferred to retained earnings.

Dividends on these investments in equity instruments are recognized in profit or loss in accordance with K-IFRS 1109, unless the dividends clearly represent a recovery of part of the cost of the investment. Dividends are included in the 'finance income' line item (Note 25) in profit or loss.

The Group designated all investments in equity instruments that are not held for trading as at FVTOCI on initial recognition (see Note 5).

A financial asset is held for trading if:

- it has been acquired principally for the purpose of selling it in the near term;
- on initial recognition it is part of a portfolio of identified financial instruments that the Group manages together and has evidence of a recent actual pattern of short-term profit taking; or
- it is a derivative (except for a derivative that is a financial guarantee contract or a designated and effective hedging instrument).

# 1-4) Financial assets at FVTPL

Financial assets that do not meet the criteria for being measured at amortized cost or FVTOCI are measured at FVTPL. Specifically:

- Investments in equity instruments are classified as at FVTPL, unless the Group designates an equity investment that is neither held for trading nor a contingent consideration arising from a business combination as at FVTOCI on initial recognition (see (1-3) above).
- Debt instruments that do not meet the amortized cost criteria or the FVTOCI criteria (see (1-1) and (1-2)

above) are classified as at FVTPL. In addition, debt instruments that meet either the amortized cost criteria or the FVTOCI criteria may be designated as at FVTPL upon initial recognition if such designation eliminates or significantly reduces a measurement or recognition inconsistency (so called 'accounting mismatch') that would arise from measuring assets or liabilities or recognizing the gains and losses on them on different bases. The Group has not designated any debt instruments as at FVTPL.

Financial assets at FVTPL are measured at fair value at the end of each reporting period, with any fair value gains or losses recognized in profit or loss to the extent they are not part of a designated hedging relationship (see hedge accounting policy). The net gain or loss recognized in profit or loss includes any dividend earned on the financial asset and is included in the 'operating income' line item (Note 26). Meanwhile, interest income on financial assets at FVTPL is included in 'financial income - other' (Note 34). Fair value is determined in the manner described in Note 25

# 2) Foreign exchange gains and losses

The carrying amount of financial assets that are denominated in a foreign currency is determined in that foreign currency and translated at the spot rate at the end of each reporting period. Specifically;

- for financial assets measured at amortized cost that are not part of a designated hedging relationship, exchange differences are recognized in profit or loss in the 'other gains and losses' line item (Note 26);
- for debt instruments measured at FVTOCI that are not part of a designated hedging relationship, exchange differences on the amortized cost of the debt instrument are recognized in profit or loss in the 'other gains and losses' line item (Note 25). As the foreign currency element recognized in profit or loss is the same as if it was measured at amortized cost, the residual foreign currency element based on the translation of the carrying amount (at fair value) is recognized in other comprehensive income in the investments revaluation reserve;
- for financial assets measured at FVTPL that are not part of a designated hedging relationship, exchange differences are recognized in profit or loss in the 'other gains and losses' line item as part of the fair value gain or loss (Note 26); and
- for equity instruments measured at FVTOCI, exchange differences are recognized in other comprehensive income in the investments revaluation reserve.

#### 3) Impairment of financial assets

The Group recognizes a loss allowance for expected credit losses on investments in debt instruments that are measured at amortized cost or at FVTOCI, lease receivables, trade receivables and contract assets, as well as on financial guarantee contracts. The amount of expected credit losses is updated at each reporting date to reflect changes in credit risk since initial recognition of the respective financial instrument.

The Group always recognizes lifetime ECL for trade receivables, contract assets and lease receivables. The expected credit losses on these financial assets are estimated using a provision matrix based on the Group's historical credit loss experience, adjusted for factors that are specific to the debtors, general economic conditions and an assessment of both the current, as well as the forecast direction of conditions at the reporting date, including time value of money where appropriate.

For all other financial instruments, the Group recognizes lifetime ECL when there has been a significant increase in credit risk since initial recognition. However, if the credit risk on the financial instrument has not increased significantly since initial recognition, the Group measures the loss allowance for that financial instrument at an amount equal to 12-month ECL.

Lifetime ECL represents the expected credit losses that will result from all possible default events over the expected life of a financial instrument. In contrast, 12-month ECL represents the portion of lifetime ECL that is expected to result from default events on a financial instrument that are possible within 12 months after the reporting date.

#### 3-1) Significant increase in credit risk

In assessing whether the credit risk on a financial instrument has increased significantly since initial recognition, the Group compares the risk of a default occurring on the financial instrument at the reporting date with the risk of a

default occurring on the financial instrument at the date of initial recognition. In making this assessment, the Group considers both quantitative and qualitative information that is reasonable and supportable, including historical experience and forward-looking information that is available without undue cost or effort. Forward-looking information considered includes the future prospects of the industries in which the Group's debtors operate, obtained from economic expert reports, financial analysts, governmental bodies, relevant think-tanks and other similar organizations, as well as consideration of various external sources of actual and forecast economic information that relate to the Group's core operations.

In particular, the following information is taken into account when assessing whether credit risk has increased significantly since initial recognition:

- an actual or expected significant deterioration in the financial instrument's external (if available) or internal credit rating;
- significant deterioration in external market indicators of credit risk for a particular financial instrument, e.g., a significant increase in the credit spread, the credit default swap prices for the debtor, or the length of time or the extent to which the fair value of a financial asset has been less than its amortized cost;
- existing or forecast adverse changes in business, financial or economic conditions that are expected to cause a significant decrease in the debtor's ability to meet its debt obligations;
- an actual or expected significant deterioration in the operating results of the debtor;
- significant increases in credit risk on other financial instruments of the same debtor;
- an actual or expected significant adverse change in the regulatory, economic, or technological
  environment of the debtor that results in a significant decrease in the debtor's ability to meet its debt
  obligations.

Irrespective of the outcome of the above assessment, the Group presumes that the credit risk on a financial asset has increased significantly since initial recognition when contractual payments are more than 30 days past due, unless the Group has reasonable and supportable information that demonstrates otherwise.

Despite the aforementioned, the Group assumes that the credit risk on a financial instrument has not increased significantly since initial recognition if the financial instrument is determined to have low credit risk at the reporting date. A financial instrument is determined to have low credit risk if:

- (1) The financial instrument has a low risk of default.
- (2) The debtor has a strong capacity to meet its contractual cash flow obligations in the near term.
- (3) Adverse changes in economic and business conditions in the longer term may, but will not necessarily, reduce the ability of the borrower to fulfil its contractual cash flow obligations.

The Group considers a financial asset to have low credit risk when the asset has external credit rating of 'investment grade' in accordance with the globally understood definition or if an external rating is not available, the asset has an internal rating of 'performing.' Performing means that the counterparty has a strong financial position and there is no past-due amounts.

For financial guarantee contracts, the date that the Group becomes a party to the irrevocable commitment is considered to be the date of initial recognition for the purposes of assessing the financial instrument for impairment. In assessing whether there has been a significant increase in the credit risk since initial recognition of a financial guarantee contracts, the Group considers the changes in the risk that the specified debtor will default on the contract.

The Group regularly monitors the effectiveness of the criteria used to identify whether there has been a significant increase in credit risk and revises them as appropriate to ensure that the criteria are capable of identifying significant increase in credit risk before the amount becomes past due.

#### 3-2) Definition of default

The Group considers the following as constituting an event of default for internal credit risk management purposes as historical experience indicates that the financial assets that meet either of the following criteria are generally not recoverable:

- •Significant financial difficulties of issuers or obligors of financial assets
- •A default or delay in interest payment or principal repayment
- •Inevitable conditions of initial borrowing due to economic or legal reasons related to the borrower's financial difficulties
- •Possibility of bankruptcy of borrower or other financial restructuring
- •Financial difficulties in the active market for financial assets

Irrespective of the analysis above, the Group considers that default has occurred when a financial asset is more than 180 days past due, unless the Group has reasonable and supportable information to demonstrate that a more lagging default criterion is more appropriate.

## 3-3) Credit-impaired financial assets

A financial asset is credit impaired when one or more events that have a detrimental impact on the estimated future cash flows of that financial asset have occurred. Evidence that a financial asset is credit impaired includes observable data about the following events:

- (a) significant financial difficulty of the issuer or the borrower;
- (b) a breach of contract, such as a default or past due event (see (3-2) above);
- (c) the lender(s) of the borrower, for economic or contractual reasons related to the borrower's financial difficulty, having granted to the borrower a concession(s) that the lender(s) would not otherwise consider;
- (d) it is becoming probable that the borrower will enter bankruptcy or other financial reorganization; or
- (e) the disappearance of an active market for that financial asset because of financial difficulties.

#### 3-4) Write-off policy

The Group writes off a financial asset when there is information indicating that the debtor is in severe financial difficulty and there is no realistic prospect of recovery, e.g., when the debtor has been placed under liquidation or has entered into bankruptcy proceedings, or in the case of trade receivables, when the amounts are over two years past due, whichever occurs sooner. Financial assets written off may still be subject to enforcement activities under the Group's recovery procedures, taking into account legal advice where appropriate. Any recoveries made are recognized in profit or loss.

#### 3-5) Measurement and recognition of expected credit losses

The measurement of expected credit losses is a function of the probability of default, loss-given default (i.e., the magnitude of the loss if there is a default) and the exposure at default. The assessment of the probability of default and loss-given default is based on historical data adjusted by forward-looking information as described above. As for the exposure at default, for financial assets, this is represented by the assets' gross carrying amount at the reporting date; for financial guarantee contracts, the exposure includes the amount drawn down as at the reporting date, together with any additional amounts expected to be drawn down in the future by default date determined based on historical trend, the Group's understanding of the specific future financing needs of the debtors and other relevant forward-looking information.

For financial assets, the expected credit loss is estimated as the difference between all contractual cash flows that are due to the Group in accordance with the contract and all the cash flows that the Group expects to receive, discounted at the original effective interest rate. For a lease receivable, the cash flows used for determining the expected credit losses is consistent with the cash flows used in measuring the lease receivable in accordance with K-IFRS 1116 Leases.

For a financial guarantee contract, as the Group is required to make payments only in the event of a default by the debtor in accordance with the terms of the instrument that is guaranteed, the expected loss allowance is the expected payments to reimburse the holder for a credit loss that it incurs less any amounts that the Group expects to receive from the holder, the debtor or any other party.

If the Group has measured the loss allowance for a financial instrument at an amount equal to lifetime ECL in the previous reporting period, but determines at the current reporting date that the conditions for lifetime ECL are no

longer met, the Group measures the loss allowance at an amount equal to 12-month ECL at the current reporting date, except for assets for which simplified approach was used.

The Group recognizes an impairment gain or loss in profit or loss for all financial instruments with a corresponding adjustment to their carrying amount through a loss allowance account, except for investments in debt instruments that are measured at FVTOCI, for which the loss allowance is recognized in other comprehensive income and accumulated in the investment revaluation reserve, and does not reduce the carrying amount of the financial asset in the consolidated statements of financial position.

#### 4) Derecognition of financial assets

The Group derecognizes a financial asset only when the contractual rights to the cash flows from the asset expire or when it transfers the financial asset and, substantially, all the risks and rewards of ownership of the asset to another entity. If the Group neither transfers nor retains substantially all the risks and rewards of ownership and continues to control the transferred asset, the Group recognizes its retained interest in the asset and an associated liability for amounts it may have to pay. If the Group retains substantially all the risks and rewards of ownership of a transferred financial asset, the Group continues to recognize the financial asset and also recognizes a collateralized borrowing for the proceeds received.

On derecognition of a financial asset measured at amortized cost, the difference between the asset's carrying amount and the sum of the consideration received and receivable is recognized in profit or loss. In addition, on derecognition of an investment in a debt instrument classified as at FVTOCI, the cumulative gain or loss previously accumulated in the investments revaluation reserve is reclassified to profit or loss. In contrast, on derecognition of an investment in equity instrument which, the Group has elected on initial recognition to measure at FVTOCI, the cumulative gain or loss previously accumulated in the investments revaluation reserve is not reclassified to profit or loss, but is transferred to retained earnings.

### (21) Financial liabilities and equity instruments

#### 1) Classification as debt or equity

Debt and equity instruments are classified as either financial liabilities or as equity in accordance with the substance of the contractual arrangement and the definitions of financial liability and an equity instrument.

#### 2) Equity instruments

An equity instrument is any contract that evidences a residual interest in the assets of an entity after deducting all of its liabilities. Equity instruments issued by the Group are recognized at the proceeds received, net of direct issue costs

Repurchase of the Group's own equity instruments is recognized and deducted directly in equity. No gain or loss is recognized in profit or loss on the purchase, sale, issue or cancellation of the Group's own equity instruments.

## 3) Financial liabilities

All financial liabilities are measured subsequently at amortized cost using the effective interest method or at FVTPL.

However, financial liabilities that arise when a transfer of a financial asset does not qualify for derecognition or when the continuing involvement approach applies, and financial guarantee contracts issued by the Group are measured in accordance with the specific accounting policies set out below.

#### 4) Financial liabilities at FVTPL

Financial liabilities are classified as at FVTPL when the financial liability is (i) contingent consideration of an acquirer in a business combination, (ii) held for trading or (iii) it is designated as at FVTPL.

A financial liability is classified as held for trading if:

- it has been acquired principally for the purpose of repurchasing it in the near term;
- on initial recognition it is part of a portfolio of identified financial instruments that the Group manages

together and has a recent actual pattern of short-term profit taking; or

• it is a derivative that is not designated and effective as a hedging instrument.

A financial liability other than a financial liability held for trading or contingent consideration of an acquirer in a business combination may be designated as at FVTPL upon initial recognition if:

- such designation eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise; or
- the financial liability forms part of a group of financial assets or financial liabilities, or both, which is managed, and its performance is evaluated on a fair value basis, in accordance with the Group's documented risk management or investment strategy, and information about the grouping is provided internally on that basis; or
- it forms part of a contract containing one or more embedded derivatives, and K-IFRS 1109 permits the entire combined contract to be designated as at FVTPL.

Financial liabilities at FVTPL are measured at fair value, with any gains or losses arising on changes in fair value recognized in profit or loss to the extent that they are not part of a designated hedging relationship (see Hedge accounting policy). The net gain or loss recognized in profit or loss incorporates any interest paid on the financial liability, and is included in the 'other gains and losses' line item (see note 26) in profit or loss.

However, for financial liabilities that are designated as at FVTPL, the amount of change in the fair value of the financial liability that is attributable to changes in the credit risk of that liability is recognized in other comprehensive income, unless the recognition of the effects of changes in the liability's credit risk in other comprehensive income would create or enlarge an accounting mismatch in profit or loss. The remaining amount of change in the fair value of liability is recognized in profit or loss. Changes in fair value attributable to a financial liability's credit risk that are recognized in other comprehensive income are not subsequently reclassified to profit or loss; instead, they are transferred to retained earnings upon derecognition of the financial liability.

Gains or losses on financial guarantee contracts issued by the Group that are designated by the Group as at FVTPL are recognized in profit or loss.

Fair value is determined in the manner described in Note 34.

5) Financial liabilities measured subsequently at amortized cost

Financial liabilities that are not (i) contingent consideration of an acquirer in a business combination, (ii) held for trading or (iii) designated as at FVTPL are measured subsequently at amortized cost using the effective interest method.

The effective interest method is a method of calculating the amortized cost of a financial liability and of allocating interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments (including all fees and points paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts) through the expected life of the financial liability, or (where appropriate) a shorter period, to the amortized cost of a financial liability.

#### 6) Financial guarantee contracts

A financial guarantee contract is a contract that requires the issuer to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payments when due in accordance with the terms of a debt instruments.

Financial guarantee contract liabilities are initially measured at their fair values and, if not designated as at FVTPL, are subsequently measured at the higher of:

- The amount of the obligation under the contract, as determined in accordance with K-IFRS 1037
- The amount initially recognized, less cumulative amortization recognized in accordance with the K-IFRS 1018, Revenue

#### 7) Foreign exchange gains and losses

For financial liabilities that are denominated in a foreign currency and are measured at amortized cost at the end of each reporting period, the foreign exchange gains and losses are determined based on the amortized cost of the instruments. These foreign exchange gains and losses are recognized in the 'other gains and losses' line item in profit or loss (see Note 26) for financial liabilities that are not part of a designated hedging relationship. For those which are designated as a hedging instrument for a hedge of foreign currency risk foreign exchange gains and losses are recognized in other comprehensive income and accumulated in a separate component of equity.

The fair value of financial liabilities denominated in a foreign currency is determined in that foreign currency and translated at the spot rate at the end of the reporting period. For financial liabilities that are measured as at FVTPL, the foreign exchange component forms part of the fair value gains or losses and is recognized in profit or loss for financial liabilities that are not part of a designated hedging relationship.

#### 8) Derecognition of financial liabilities

The Group derecognizes financial liabilities when, and only when, the Group's obligations are discharged, canceled or have expired. The difference between the carrying amount of the financial liability derecognized and the consideration paid and payable is recognized in profit or loss.

When the Group exchanges with the existing lender one debt instrument into another one with the substantially different terms, such exchange is accounted for as an extinguishment of the original financial liability and the recognition of a new financial liability. Similarly, the Group accounts for substantial modification of terms of an existing liability or part of it as an extinguishment of the original financial liability and the recognition of a new liability. It is assumed that the terms are substantially different if the discounted present value of the cash flows under the new terms, including any fees paid net of any fees received and discounted using the original effective rate is at least 10% different from the discounted present value of the remaining cash flows of the original financial liability. If the modification is not substantial, the difference between (1) the carrying amount of the liability before the modification and (2) the present value of the cash flows after modification should be recognized in profit or loss as the modification gain or loss within other gains and losses.

#### (22) Derivative financial instruments

The Group enters into a variety of derivative financial instruments to manage its exposure to interest rate and foreign exchange rate risks, including foreign exchange forward contracts, options and interest rate swaps.

Derivatives are initially recognized at fair value at the date the derivative contract is entered into and are subsequently remeasured to their fair value at the end of each reporting period. The resulting gain or loss is recognized in profit or loss immediately, unless the derivative is designated and effective as a hedging instrument; in such case, the timing of the recognition in profit or loss depends on the nature of the hedge relationship.

A derivative with a positive fair value is recognized as a financial asset; a derivative with a negative fair value is recognized as a financial liability. Derivatives are not offset in the consolidated financial statements, unless the Group has both legal right and intention to offset. The impact of the Master Netting Agreements on the Group's consolidated financial position is disclosed in Note 34. A derivative is presented as a non-current asset or a non-current liability if the remaining maturity of the instrument is more than 12 months and it is not expected to be realized or settled within 12 months. Other derivatives are presented as current assets or current liabilities.

## 1) Embedded derivatives

An embedded derivative is a component of a hybrid contract that also includes a non-derivative host – with the effect that some of the cash flows of the combined instrument vary in a way similar to a stand-alone derivative.

Derivatives embedded in hybrid contracts with a financial asset host within the scope of K-IFRS 1109 are not separated. The entire hybrid contract is classified and subsequently measured as either amortized cost or fair value as appropriate.

Derivatives embedded in hybrid contracts with hosts that are not financial assets within the scope of K-IFRS 1109 (e.g., financial liabilities) are treated as separate derivatives when they meet the definition of a derivative, their risks and characteristics are not closely related to those of the host contracts and the host contracts are not measured at FVTPL.

An embedded derivative is presented as a non-current asset or non-current liability if the remaining maturity of the hybrid instrument to which the embedded derivative relates is more than 12 months and is not expected to be realized or settled within 12 months.

#### 2) Hedge accounting

The Group designates certain derivatives as hedging instruments in respect of foreign currency risk and interest rate risk in fair value hedges, cash flow hedges or hedges of net investments in foreign operations. Hedges of foreign exchange risk on firm commitments are accounted for as cash flow hedges.

At the inception of the hedge relationship, the Group documents the relationship between the hedging instrument and the hedged item, along with its risk management objectives and its strategy for undertaking various hedge transactions. Furthermore, at the inception of the hedge and on an ongoing basis, the Group documents whether the hedging instrument is effective in offsetting changes in fair values or cash flows of the hedged item attributable to the hedged risk, which is when the hedging relationships meet all of the following hedge effectiveness requirements:

- there is an economic relationship between the hedged item and the hedging instrument;
- the effect of credit risk does not dominate the value changes that result from that economic relationship;
   and
- the hedge ratio of the hedging relationship is the same as that resulting from the quantity of the hedged item that the Group actually hedges and the quantity of the hedging instrument that the Group actually uses to hedge that quantity of hedged item.

If a hedging relationship ceases to meet the hedge effectiveness requirement related to the hedge ratio but the risk management objective for that designated hedging relationship remains the same, the Group adjusts the hedge ratio of the hedging relationship (i.e., rebalances the hedge) so that it meets the qualifying criteria again.

The Group designates the full change in the fair value of a forward contract (i.e., including the forward elements) as the hedging instrument for all of its hedging relationships involving forward contracts.

The Group designates only the intrinsic value of option contracts as a hedged item, i.e., excluding the time value of the option. The changes in the fair value of the aligned time value of the option are recognized in other comprehensive income and accumulated in the cost of hedging reserve. If the hedged item is transaction related, the time value is reclassified to profit or loss when the hedged item affects profit or loss. If the hedged item is time-period related, then the amount accumulated in the cost of hedging reserve is reclassified to profit or loss on a rational basis – the Group applies straight-line amortization method. Those reclassified amounts are recognized in profit or loss in the same line as the hedged item. If the hedged item is a non-financial item, then the amount accumulated in the cost of hedging reserve is removed directly from equity and included in the initial carrying amount of the recognized non-financial item. Furthermore, if the Group expects that some or all of the loss accumulated in cost of hedging reserve will not be recovered in the future, that amount is immediately reclassified to profit or loss.

## 3) Fair value hedges

The fair value change on qualifying hedging instruments is recognized in profit or loss, except when the hedging instrument hedges an equity instrument designated at FVTOCI in which case it is recognized in other comprehensive income.

The carrying amount of a hedged item not already measured at fair value is adjusted for the fair value change attributable to the hedged risk with a corresponding entry in profit or loss. For debt instruments measured at FVTOCI, the carrying amount is not adjusted as it is already at fair value, but the hedging gain or loss is recognized in profit or loss instead of other comprehensive income. When the hedged item is an equity instrument designated at FVTOCI, the hedging gain or loss remains in other comprehensive income to match that of the hedging instrument.

Where hedging gains or losses are recognized in profit or loss, they are recognized in the same line as the hedged item.

The Group discontinues hedge accounting only when the hedging relationship (or a part thereof) ceases to meet the qualifying criteria (after rebalancing, if applicable). This includes instances when the hedging instrument expires or is sold, terminated or exercised. The discontinuation is accounted for prospectively. The fair value adjustment to the carrying amount of the hedged item arising from the hedged risk is amortized to profit or loss from that date.

#### 4) Cash flow hedges

The effective portion of changes in the fair value of derivatives and other qualifying hedging instruments that are designated and qualify as cash flow hedges is recognized in other comprehensive income and accumulated under the heading of cash flow hedging reserve, limited to the cumulative change in fair value of the hedged item from inception of the hedge. The gain or loss related to the ineffective portion is recognized immediately in profit or loss, and is included in the 'other gains and losses' line item.

Amounts previously recognized in other comprehensive income and accumulated in equity are reclassified to profit or loss in the periods when the hedged item affects profit or loss, in the same line as the recognized hedged item. However, when the hedged forecast transaction results in the recognition of a non-financial asset or a non-financial liability, the gains and losses previously recognized in other comprehensive income and accumulated in equity are removed from equity and included in the initial measurement of the cost of the non-financial asset or non-financial liability. This transfer does not affect other comprehensive income. Furthermore, if the Group expects that some or all of the loss accumulated in the cash flow hedging reserve will not be recovered in the future, that amount is immediately reclassified to profit or loss.

The Group discontinues hedge accounting only when the hedging relationship (or a part thereof) ceases to meet the qualifying criteria (after rebalancing, if applicable). This includes instances when the hedging instrument expires or is sold, terminated or exercised. The discontinuation is accounted for prospectively. Any gain or loss recognized in other comprehensive income and accumulated in cash flow hedge reserve at that time remains in equity and is reclassified to profit or loss when the forecast transaction occurs. When a forecast transaction is no longer expected to occur, the gain or loss accumulated in cash flow hedge reserve is reclassified immediately to profit or loss.

## 5) Hedges of net investments in foreign operations

Hedges of net investments in foreign operations are accounted for similarly to cash flow hedges. Any gain or loss on the foreign currency forward contracts related to the effective portion of the hedge is recognized in other comprehensive income and accumulated in the foreign currency translation reserve. The gain or loss related to the ineffective portion is recognized immediately in profit or loss, and is included in the 'other gains and losses' line item.

Gains and losses on the hedging instrument accumulated in the foreign currency translation reserve are reclassified to profit or loss on the disposal or partial disposal of the foreign operation.

## (23) Treasury shares

In the event of reacquisition of its own equity instruments ("treasury share"), the incremental costs incurred directly related to the equity transaction are accounted for by deducting the net income tax benefit from equity, and other capital items are marked as the total capital reduction item in the consolidated statements of financial position. On the other hand, the gain or loss on the purchase, sale or incineration of own shares is not recognized in profit or loss, but is recognized directly in equity.

### (24) Fair value

Fair value is the price that will be received on sale of assets or paid on transfer of liabilities at the measurement date in normal transactions between market participants, whether the price is directly observable or estimated using valuation techniques. In estimating the fair value of an asset or liability, we consider the characteristics of the asset or liability that market participants consider when pricing the asset or liability at the measurement date. Equity-based payment transactions within the scope of K-IFRS 2 'Share-based Payment,' lease transactions within the scope of IAS 17 'Leases,' net realizable value of IAS 2 \_Inventories\_ and the value of use of IAS 36 \_Inventories\_, are determined in accordance with the principles described in measurement or disclosure, except for measurements that are similar in part, but are not fair value.

In addition, based on the observable degree of input used for measuring fair value for financial reporting purposes and the significance of input variables for the entire fair value measurement, the fair value measurement is classified as Levels 1, 2 or 3.

	Details
(Level 1)	Quoted price (unadjusted) in an active market accessible to the same asset or liability
	at the measurement date
(Level 2)	Inputs that can be observed directly or indirectly for an asset or liability beside the
	quoted price of Level 1
(Level 3)	Unobservable inputs to assets or liabilities

#### 3. SIGNIFICANT CONSIDERATION AND MAJOR SOURCES OF ESTIMATION UNCERTAINTIES:

In the application of the Group accounting policies, which are described in Note 2, management is required to make judgments, estimates and assumptions about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimate is revised if the revision affects only that period or in the period of the revision, and future periods if the revision affects both current and future periods.

(1) Uncertainty on the estimation of the total construction revenue

Gross contract profit is measured based on the initially agreed contract amount, but during the process of performing contract, this amount can be increased or reduced according to revision of contract condition. Therefore, the measurement of contract profit is influenced by various uncertainty related to the result of future incidents. In case that there is a high probability that the client approves fluctuation of profit amount due to revision of contract condition, or our company has high probability to fulfill achievement criteria and measure the amount reliably, we include it into contract profit.

(2) Estimation of the total construction cost

Contract profit amount is being influenced by progress rate measured based on accumulated contract cost, and gross contract cost will be estimated based on future estimated figures, such as material cost, labor cost and project period. The Group periodically reviews any changes of estimated total contract cost and reflects such changes when it calculates current progress rate at the end of reporting period.

(3) In applying the Group accounting policies described in Note 2, management should make judgements that have a significant impact on the amounts recognised in the financial statements (excluding estimates) and estimate and assume the carrying amounts of assets and liabilities that cannot be easily identified. Estimates and associated assumptions are based on past experience and other factors that are considered relevant. The actual results may also differ from these estimates. In particular, the spread of COVID-19 in 2020 may affect the estimation and assumption of the group, but the impact cannot be reasonably estimated as of the end of the current period.

## 4. OPERATING SEGMENTS:

- (1) For management purposes, the Group divided the operating segments of its subsidiaries into levels that are provided to the CEO for decision-making based on the nature of goods sold or services rendered. The segments are categories for Group's reporting of its business, and accounting policies applied for each segment are same as described in Note 2.
- (2) Revenue and profit before tax for each operating segment for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Sales	s (*1)	Profit before income tax (*1)			
	Year ended	Year ended	Year ended	Year ended		
Operating segment	December 31, 2020	December 31, 2019	December 31, 2020	December 31, 2019		
LG CNS Co., Ltd.	₩ 3,107,800,439	₩ 3,039,795,628	₩ 208,128,554	₩ 191,394,324		
BizTech Partners Co., Ltd	110,446,444	104,487,767	2,930,159	2,229,509		
Haengbokmaru Co., Ltd.	2,578,926	2,902,331	42,212	141,858		
Sejong Green Power Co., Ltd.	7,503,029	8,578,691	(11,977,337)	(1,675,795)		
Open Source Consulting (*2)	11,529,184	4,532,090	(2,014,625)	(781,908)		
Korea Elecom Co., Ltd. (*3)	-	947,961	-	(760,179)		
LG CNS China Inc.	157,117,450	163,484,099	21,312,598	19,148,531		
LG CNS Europe B.V.	79,552,667	51,533,512	5,447,672	2,523,651		
LG CNS America, Inc.	75,325,921	70,553,161	3,253,005	(3,599,857)		
LG CNS India Pvt., Ltd.	7,764,271	10,981,263	331,369	426,180		
PT LG CNS Indonesia	5,256,942	4,900,654	26,753	266,906		
LG CNS Brasil Servicos de T.I.						
Ltda. (*4)	3,235,568	4,195,987	320,561	475,102		
LG CNS COLOMBIA SAS	20,653,746	17,213,116	4,109,370	922,750		
LG CNS MALAYSIA SDN BHD	7,527,579	4,801,953	(129,531)	282,665		
LG CNS JAPAN Co., Ltd.	8,834,885	10,382,063	(347,879)	573,003		
LG CNS UZBEKISTAN, LLC	1,000,062	390,374	391,905	(180,727)		
LG CNS VIETNAM CO., LTD	15,742,342	21,159,674	333,673	485,820		
LG CNS FUND I LLC	-	-	(636,858)	(654,160)		
LG CNS Philippines, Inc	-	-	-	-		
LG CNS Saudi Arabia LLC			(42,123)			
Subtotal	3,621,869,455	3,520,840,324	231,479,478	211,217,673		
Consolidation adjustments (*1)	(261,383,928)	(237,526,060)	231,444	(3,896,511)		
Total	₩ 3,360,485,527	₩ 3,283,314,264	₩ 231,710,922	₩ 207,321,162		

<sup>(\*1)</sup> Revenue by segments is presented before elimination of internal transactions, and profit before income tax by segments is net profit (loss) before distribution of revenue and expenses. Elimination of gain (loss) on internal transaction is presented in the consolidation adjustments.

<sup>(\*2)</sup> Acquired share during the prior year.

<sup>(\*3)</sup> Disposed during the prior year, the amount of sales and profit before income tax is before disposal.

<sup>(\*4)</sup> Changed the company name during the prior year.

(3) Assets of each operating segment of the Group as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

Operating segment	Dece	ember 31, 2020	Dec	ember 31, 2019
LG CNS Co., Ltd.	₩	2,711,680,027	₩	2,463,779,480
BizTech Partners Co., Ltd.		39,598,723		29,061,517
Haengbokmaru Co., Ltd.		1,830,944		1,746,144
Sejong Green Power Co., Ltd.		11,667,735		27,935,600
Open Source Consulting		10,966,117		9,787,190
LG CNS China Inc.		93,602,798		78,499,648
LG CNS Europe B.V.		47,842,842		40,735,447
LG CNS America, Inc.		40,350,335		37,582,346
LG CNS India Pvt., Ltd.		9,466,578		10,133,462
PT LG CNS Indonesia		2,874,770		2,933,084
LG CNS Brasil Servicos de T.I tda		1,333,245		1,726,789
LG CNS COLOMBIA SAS		23,271,001		17,022,369
LG CNS MALAYSIA SDN BHD		1,763,948		3,267,580
LG CNS Saudi Arabia LLC		731		57,257
LG CNS JAPAN Co., Ltd.		9,026,696		9,904,893
LG CNS UZBEKISTAN, LLC		509,208		191,181
LG CNS VIETNAM CO., Ltd.		7,336,304		11,349,939
LG CNS FUND I LLC		13,582,174		4,411,697
LG CNS Philippines, Inc		<u>-</u> _		=
Subtotal		3,026,704,176		2,750,125,623
Consolidation adjustments		(143,289,371)		(134,817,363)
Total	₩	2,883,414,805	₩	2,615,308,260

(4) Goods sold and services rendered for each operating segments of the Group for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Inventory sold	Year ended	Year ended
Operating segment	or services rendered	December 31, 2020	December 31, 2019
LG CNS Co., Ltd.	Merchandise	₩ 595,871,869	₩ 679,132,939
	Service	1,207,050,856	1,097,119,785
	Construction	1,304,877,714	1,263,542,904
BizTech Partners Co., Ltd	Merchandise	12,189,340	4,632,023
	Service	53,722,056	52,239,060
	Construction	44,535,048	47,616,684
Haengbokmaru Co., Ltd.	Service	2,578,926	2,902,331
Sejong Green Power Co., Ltd.	Service	7,503,029	8,578,691
Open Source Consulting	Merchandise	7,838,434	2,015,865
	Service	3,690,750	2,516,225
Korea Elecom Co., Ltd.	Merchandise	-	672,071
	Service	-	275,890
LG CNS China Inc.	Merchandise	52,468,912	65,804,734
	Service	60,558,175	54,818,638
	Construction	44,090,363	42,860,727
LG CNS Europe B.V.	Merchandise	6,700,955	12,555,387
	Service	22,576,749	16,933,600
	Construction	50,274,963	22,044,525
LG CNS America, Inc.	Merchandise	9,999,408	14,247,092
	Service	51,289,788	42,864,168
	Construction	14,036,725	13,441,901
LG CNS India Pvt., Ltd.	Merchandise	784,647	4,985,322
	Service	6,979,624	5,995,941
PT LG CNS Indonesia	Merchandise	3,549	383,533
	Service	4,454,483	3,771,037
	Construction	798,910	746,084
LG CNS Brasil Servicos de T.I. Ltda.	Service	3,235,568	4,195,987
LG CNS COLOMBIA	Merchandise	13,912,824	12,796,357
	Service	6,740,922	4,416,759
LG CNS MALAYSIA SDN BHD	Merchandise	6,334,249	-
	Construction	1,193,330	4,801,953
LG CNS JAPAN Co., Ltd.	Merchandise	781,156	3,427,582
	Service	6,870,483	6,393,293
	Construction	1,183,246	561,188
LG CNS UZBEKISTAN, LLC	Construction	1,000,062	390,374
LG CNS VIETNAM CO., Ltd.	Merchandise	6,121,953	9,397,739
	Service	5,238,521	3,870,183
	Construction	4,381,868	7,891,752
Subtotal		3,621,869,455	3,520,840,324
Consolidation adjustment	CS .	(261,383,928)	(237,526,060)
Total		₩ 3,360,485,527	₩ 3,283,314,264

(5) The group's revenue and non-current assets by geographical location before consolidation adjustments for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Reve	enue	Non-current assets			
	Year ended	Year ended	Year ended	Year ended		
	December 31,	December 31,	December 31,	December 31,		
Region	2020	2019	2020	2019		
Korea	₩3,239,858,021	₩3,161,244,469	₩ 854,776,128	₩ 887,459,631		
China	157,117,450	163,484,099	2,806,747	3,022,102		
Asia	46,126,080	52,615,980	133,803	243,023		
North America	75,325,921	70,553,161	5,461,648	5,176,593		
Mid-South America	23,889,314	21,409,103	791,251	750,926		
Europe	79,552,669	51,533,512	557,276	464,378		
	₩ 3,621,869,455	₩ 3,520,840,324	₩ 864,526,853	₩ 897,116,653		

(6) Revenue to customers that comprise more than 10% of the Group's total sales for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

		Year ended		Year ended
Customer		December 31, 2020		December 31, 2019
LG Electronics Inc. (*)	₩	744,055,442	₩	666,186,904
LG Chem Ltd. (*)		510,121,709		434,839,524
LG Uplus Corp.(*)		349,921,136		375,724,308

<sup>(\*)</sup> Includes transaction to those subsidiaries.

## 5. CLASSIFICATION OF FINANCIAL INSTRUMENTS AND FAIR VALUE:

Carrying amount and fair value of financial assets and liabilities as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

## (1) FINANCIAL ASSETS

			December	31,	2020	December 31, 2019			
			Carrying		Fair	Carrying		Fair	
Financial assets	Account		amount		value	amount		value	
Cash and cash equivalents:	Cash and cash equivalents	₩	720,276,711	₩	720,276,711	₩ 490,309,547	₩	490,309,547	
Financial assets at	Derivative assets for trading								
FVTPL	purposes		2,578,106		2,578,106	2,249,593		2,249,593	
	Investment (*)		23,873,805		23,873,805	11,021,048		11,021,048	
	Subtotal		26,451,911		26,451,911	13,270,641		13,270,641	
Financial assets at	Marketable equity securities		1,634,949		1,634,949	1,794,048		1,794,048	
FVTOCI	Unmarketable equity								
	securities		5,009,256		5,009,256	8,130,187		8,130,187	
	Subtotal		6,644,205		6,644,205	9,924,235		9,924,235	
Financial assets at	Financial institution		_					·	
amortized cost	deposits		148,148,142		148,148,142	35,676,224		35,676,224	
	Trade receivables		837,964,202		837,964,202	830,583,481		830,583,481	
	Loans		5,177,105		5,177,105	10,415,906		10,415,906	
	Other accounts receivable		11,347,020		11,347,020	11,113,468		11,113,468	
	Accrued income		2,337,678		2,337,678	1,169,010		1,169,010	
	Deposits		10,363,112		10,363,112	9,455,885		9,455,885	
	Subtotal		1,015,337,259		1,015,337,259	898,413,974	•	898,413,974	
	Total	₹	¥1,768,710,086	3	₩1,768,710,086	₩1,411,918,397	₩	1,411,918,397	

<sup>(\*)</sup> Contains equity securities classified as debt securities as those are puttable financial instruments.

## (2) FINANCIAL LIABILITIES

		Decem	nber 31, 2020	December 31, 2019			
		Carrying	Fair	Carrying	Fair		
Financial liabilities	Account	amount	value	amount	value		
Financial liabilities	at Derivative liabilities for						
FVTPL:	trading purposes	₩ 326,494	₩ 326,494	₩ 275,703	₩ 275,703		
	Trade payables	473,471,390	473,471,390	348,748,377	348,748,377		
	Borrowings	29,665,108	29,665,108	24,620,328	24,620,328		
	Other accounts payable	35,535,226	35,535,226	36,824,511	36,824,511		
Financial liabilities	at Accrued expenses	127,608,453	127,608,453	120,966,164	120,966,164		
amortized cost	Accrued dividends	4,018	4,018	1,302	1,302		
	Deposits received	1,247,359	1,247,359	1,320,359	1,320,359		
	Debentures	588,782,663	596,597,046	519,386,757	525,126,349		
	Subtotal	1,256,314,217	1,264,128,600	1,051,867,798	1,057,607,390		
Lease liabilities		56,853,881	56,853,881	61,465,512	61,465,512		
	Total	₩ 1,313,494,592	₩ 1,321,308,975	₩ 1,113,609,013	₩ 1,119,348,605		

## 6. CASH AND CASH EQUIVALENTS:

Cash and cash equivalents in the consolidated statements of cash flows are equivalent to cash and cash equivalents in the consolidated statements of financial position. Details of cash and cash equivalents as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Dece	ember 31, 2020	December 31, 2019		
Cash on hand	₩	7,648	₩	8,926	
Bank deposits		720,269,063		490,300,621	
Total	₩	720,276,711	₩	490,309,547	

## 7. TRADE AND OTHER RECEIVABLES:

(1) Details of trade and other receivables before deducting accumulated impairment losses as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

## 1) December 31, 2020

	No	ot deferred	De	eferred but								
	an	d impaired	-		1		Consolidation					
	re	eceivables					Subtotal		adjustments		Total	
Trade receivables	₩	867,758,217	₩	63,999,915	₩	14,432,144	₩	946,190,276	₩	(94,753,942)	₩	851,436,334
Other trade												
receivables		26,514,405		3,295,883		4,714,397		34,524,685		(3,103,449)		31,421,236
Total	₩	894,272,622	₩	67,295,798	₩	19,146,542	₩	980,714,961	₩	(97,857,391)	₩	882,857,570

## 2) December 31, 2019

	Not deferred and impaired receivables	Deferred but not impaired receivables	Impaired receivables	Subtotal	Consolidation adjustments	Total
Trade receivables Other trade	₩762,029,906	₩157,017,125	₩ 22,793,410	₩ 941,840,441	₩ (81,609,577)	₩ 860,230,864
receivables	21,838,840	12,387,523	5,439,680	39,666,043	(3,717,439)	35,948,604
Total	₩783,868,746	₩169,404,648	₩ 28,233,090	₩ 981,506,484	₩ (85,327,016)	₩ 896,179,468

(2) Aging analysis based on committed collection period of past due but not impaired trade and other receivables as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

Delinquency period	Decem	December 31, 2020		mber 31, 2019
1–29 days	₩	36,568,229	₩	72,789,600
30–60 days		6,780,582		9,091,594
61–90 days		3,754,197		15,095,312
91–120 days		2,243,311		9,020,524
More than 121 days		17,949,478		63,407,618
Total	₩	67,295,798	₩	169,404,648

(3) Changes in accumulated impairment losses for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

		Year ended De	cember 3	1, 2020	Year ended December 31, 2019					
	Tra	de receivables	Oth	er receivables	Trac	de receivables	Other	Other receivables		
Beginning balance	₩	29,647,383	₩	3,794,335	₩	33,425,121	₩	4,032,507		
Variation due to business combination		-		-		22,734		(28,330)		
Impairment loss		272,143		1,323,292		(7,680)		289,595		
Write-off		(4,490,925)		(2,992,268)		(3,791,054)		(976,024)		
Reversal of allowance for doubtful accounts		(7,426,099)		-		(241,787)		-		
Effect of foreign currency translation		(633,151)		-		238,044		-		
Others		(3,897,219)		70,962		2,005		476,587		
Ending balance	₩	13,472,133	₩	2,196,321	₩	29,647,383	₩	3,794,335		

The Group measures the loss allowance at an amount equal to lifetime expected credit losses for trade receivables. Expected credit losses on trade receivables are estimated using a provision rate table based on the borrower's past experience of default and are adjusted by assessing the borrower's specific factors and general economic conditions in the industry to which the borrower belongs and current and future prospects at the end of the reporting period. There are no changes in estimation techniques or important assumptions during the current period.

(4) Aging analysis of impaired trade and other receivables as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

Periods	I	December 31, 2020	Decen	nber 31, 2019
Not more than 6 months	₩	7,227,520	₩	3,255,793
More than 6 months and not more than 1 year		184,724		27,725
More than 1 year		11,734,298		24,949,572
Total	₩	19,146,542	₩	28,233,090

## 8. <u>INVENTORIES:</u>

(1) Inventories as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

			Decen	nber 31, 2020		
	Acq	uisition cost	Valuat	ion allowance	Carry	ying amount
Merchandise	₩	32,856,009	₩	(88,869)	₩	32,767,140
Work in progress		892,584		-		892,584
Raw materials		7,813		-		7,813
Other inventories		1,205,983		(109,187)		1,096,796
Total	₩	34,962,389	₩	(198,056)	₩	34,764,333
			Decer	mber 31, 2019		
	Acq	uisition cost	Valuat	ion allowance	Carr	ying amount
Merchandise	₩	58,138,366	₩	(1,537,218)	₩	56,601,148
Work in progress		_		-		-
Raw materials		11,209		-		11,209
Other inventories		1,112,046		(364,553)		747,493
Total	₩	59,261,621	₩	(1,901,771)	₩	57,359,850

(2) Inventory costs recognized in operating expenses as of December 31, 2020 and 2019, are \$\pm\$930,908,302 thousand and \$\pm\$926,732,482 thousand, which include loss and reversal of loss arising from valuation of inventories amounting to \$\pm\$40,000 thousand, (2019: \$\pm\$0 thousand) and \$\pm\$255,365 thousand (2019: \$\pm\$49,590 thousand), respectively.

## 9. OTHER ASSETS:

Details of other assets as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	December	r 31, 2020	December 31, 2019			
	Current	Non-current	Current	Non-current		
Advance payments	₩ 32,674,973	₩ 41,057	₩ 33,400,741	₩ 37,143		
Prepaid expenses	21,419,226	67,779	15,179,239	102,435		
Prepaid value-added tax	1,292,738	-	8,811,430	-		
Contract asset	166,538,010	=	190,412,338	-		
Other current assets	68,081		159,145			
Total	₩ 221,993,028	₩ 108,836	₩ 247,962,893	₩ 139,578		

## 10. PROPERTY, PLANT AND EQUIPMENT:

(1) Composition of property, plant and equipment as of December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

## 1) December 31, 2020

	Land	Buildings	Structures	Machinery	V	ehicles		ools and	Furniture and fixtures	Construction in progress	Others	Total
Acquisition cost Accumulated	₩ 88,869,672	₩497,249,992	₩ 3,562,488	₩ 32,156,615	₩	83,976	₩	419,886	₩ 88,632,361	₩ 3,094,197	₩408,387,868	₩1,122,457,055
depreciation Accumulated impairment	-	(117,776,459)	(375,461)	(5,934,298)		(29,024)		(367,001)	(55,852,823)	-	(333,504,743)	(513,839,809)
loss Government	-	-	-	(23,562,599)		-		-	-	-	(224,351)	(23,786,950)
subsidies		(910,865)				-		-	(27,095)			(937,960)
Total	₩ 88,869,672	₩378,562,668	₩ 3,187,027	₩ 2,659,718	₩	54,952	₩	52,885	₩ 32,752,443	₩ 3,094,197	₩ 74,658,774	₩ 583,892,336
2	December	31, 2019  Buildings	Structures	Machinery	V	ehicles_		ols and	Furniture and fixtures	Construction in progress	Others	Total
Acquisition cost Accumulated depreciation	₩ 88,208,563	₩491,437,683 (99,377,377)	₩ 3,435,162 (272,394)	₩ 31,739,905 (5,002,285)	₩	89,524 (11,616)	₩	419,886 (342,334)	₩ 87,624,047 (50,550,480)	₩ 1,527,952	₩410,720,892 (324,923,426)	₩1,115,203,614 (480,479,912)
Accumulated impairment loss Government subsidies	- 	(947,911)	- 	(12,085,000)		- -		- -	(76,236)	- 	(237,521) (10,639)	(12,322,521)
Total	₩ 88,208,563	₩391,112,395	₩ 3,162,768	₩ 14,652,620	₩	77,908	₩	77,552	₩ 36,997,331	₩ 1,527,952	₩ 85,549,306	₩ 621,366,395

# (2) Changes in property, plant and equipment for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

## 1) Year ended December 31, 2020

	Land	Buildings	Structures	Machinery	Vehicles	Tools and equipment	Furniture and fixtures	Construction in progress	Others	Total
Beginning										
balance	₩ 88,208,563	₩391,112,395	₩3,162,768	₩ 14,652,620	₩ 77,908	₩ 77,552	₩ 36,997,331	₩ 1,527,952	₩ 85,549,306	₩621,366,395
Acquisition	-	506,900	110,256	417,184	-	-	3,903,528	1,566,245	24,569,418	31,073,531
Disposals	-	-	-	-	-	-	(8,149)	-	(2,454,985)	(2,463,134)
Depreciation	-	(15,656,402)	(89,906)	(932,027)	(18,083)	(24,667)	(7,771,656)	-	(32,306,387)	(56,799,128)
Transfers	661,109	2,432,464	3,909	-	-	-	-	-	-	3,097,482
Impairment loss	-	-	-	(11,477,599)	-	-	-	-	(4,338)	(11,481,937)
Others	_	167,379	_	-	_	_	(314,411)	_	(404,060)	(551,092)
Effect of FX		,					(- / /		( - ,,	(349,781)
changes		(68)		(460)	(4,873)		(54,200)		(290,180)	
Ending balance	₩ 88,869,672	₩378,562,668	₩3,187,027	₩ 2,659,718	₩ 54,952	₩ 52,885	₩ 32,752,443	₩ 3,094,197	₩ 74,658,774	₩583,892,336

## 2) Year ended December 31, 2019

	Land	Buildings	Structures	Machinery	Vehicles	Tools and equipment	Furniture and fixtures	Construction in progress	Others	Total
Beginning										
balance	₩ 94,186,511	₩415,413,323	₩2,836,405	₩15,413,370	₩ 34,179	₩ 179,830	₩ 39,736,189	₩ 848,988	₩ 96,182,907	₩664,831,702
Acquisition	-	714,789	500,000	174,758	90,537	4,990	4,390,257	1,270,881	27,471,636	34,617,848
Disposals	-	-	-	-	(12,602)	-	(1,649)	-	(331,950)	(346,201)
Depreciation	-	(15,582,000)	(75,924)	(935,451)	(17,876)	(62,680)	(7,143,981)	-	(37,775,060)	(61,592,972)
Transfers	₩(3,287,373)	(9,270,816)	(97,704)	-	-	-	-	-	-	(12,655,893)
Government										
subsidies	-	(31,977)	-	-	-	-	-	-	-	(31,977)
Changes in the scope of										
consolidation	(2,690,575)	(131,878)	(9)	(31)	(15,435)	(44,588)	15,211	-	88,000	(2,779,305)
Impairment loss	-	-	-	-	-	-	-	-	(176)	(176)
Others Effect of FX	-	-	-	-	-	-	-	(591,917)	(134,792)	(726,709)
changes	-	954	-	(26)	(895)	-	1,304	-	48,741	50,078
Ending balance	₩ 88,208,563	₩391,112,395	₩3,162,768	₩14,652,620	₩ 77,908	₩ 77,552	₩ 36,997,331	₩ 1,527,952	₩ 85,549,306	₩621,366,395

- (3) Changes in government subsidies for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):
- 1) Year ended December 31, 2020

Furniture		
and fixtures Others Total	Buildings	
₩ 76,236 ₩ 10,639 ₩ 1,034,786	₩ 947,911	Beginning balance
(10,639) (96,826)	(37,046)	Offsetting
		depreciation
5 ₩ 27,095 ₩ - ₩ 937,960	₩ 910,865	Ending balance
) (49,141) (10,639)	(37,046)	Offsetting depreciation

2) Year ended December 31, 2019

	Buildings	Furniture and fixtures	Others	Total
Beginning balance	₩ 950,774	₩ 129,732	₩ 84,312	₩ 1,164,818
Receipt	31,977	-	-	31,977
Offsetting				
depreciation	(34,840)	(53,496)	(73,673)	(162,009)
Ending balance	₩ 947,911	₩ 76,236	₩ 10,639	₩ 1,034,786

- (4) Composition of disposal for the years ended December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):
- 1) Year ended December 31, 2020

		rniture fixtures	Others	Total		
Book value before disposal Disposal amount	₩	8,149 32,826	₩2,454,985 1,486,526		2,463,134 1,519,352	
Gain (loss) on disposal	₩	24,677	₩ (968,459	₩	(943,782	

2) Year ended December 31, 2019

	Ve	hicles		iture and ctures		niture fixtures	(	Others		Total
Book value before disposal Disposal amount	₩	3,000	₩	12,602 23,900	₩	1,649 9,371	₩	331,950 640,821	₩	346,201 677,092
Gain (loss) on disposal	₩	3,000	₩	11,298	₩	7,722	₩	308,871	₩	330,891

## 11. <u>INVESTMENT PROPERTY:</u>

- (1) Composition of investment property as of December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):
- 1) Year ended December 31, 2020

		Land		Buildings		Structures		Total
Acquisition cost	₩	6,873,059	₩	21,742,645	₩	231,743	₩	28,847,447
Accumulated depreciation		<u>-</u>		(4,239,858)		(42,655)		(4,282,513)
Total	₩	6,873,059		17,502,787	₩	189,088		24,564,934

2) Year ended December 31, 2019

		Land		Buildings	Structures		Total
Acquisition cost	₩	7,534,168	₩	26,874,624	248,812	₩	34,657,604
Accumulated depreciation		<u>-</u>		(6,114,723)	(47,510)		(6,162,233)
Total	₩	7,534,168	₩	20,759,901	₩ 201,302	₩	28,495,371

(2) Changes in investment property for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

## 1) Year ended December 31, 2020

	Land		Buildings		Structures		Total	
Acquisition cost	₩	7,534,168	₩	20,759,901	₩	201,302	₩	28,495,371
Accumulated depreciation		-		(824,650)		(8,305)		(832,955)
Transfers		(661,109)		(2,432,464)		(3,909)		(3,097,482)
Ending balance	₩	6,873,059	₩	17,502,787	₩	189,088	₩	24,564,934

## 2) Year ended December 31, 2019

		Land		Buildings	S	tructures		Total
Acquisition cost	₩	4,246,795	₩	12,376,282	₩	111,601	₩	16,734,678
Accumulated depreciation		-		(887,197)		(8,003)		(895,200)
Transfers		3,287,373		9,270,816		97,704		12,655,893
Ending balance	₩	7,534,168	₩	20,759,901	₩	201,302	₩	28,495,371

(3) Evaluation of the fair value of investment property as of December 31, 2020, is as follows (Unit: Korean won in thousands):

		Buildings and	
Description	Land	structures	Total
Book value of investment property:			
Sangam DDMC (*1)	₩ 13,461,407	₩ 34,650,875	₩ 48,112,282
Results of valuation:			
Sangam DDMC (*2 and 3)	₩	343,000,000	₩ 343,000,000

- (\*1) Includes the value of investment property occupied by the owner (land: \$6,588,348 thousand and buildings and structures: \$16,959,000 thousand).
- (\*2) It is the whole valuation amount of Sangam DDMC. Sangam DDMC is an appraisal value of the entire real estate, including land, buildings and structures.
- (\*3) Fair value assessment was performed by an independent third party, Samchang Appraisal Co., Ltd., which used an average costing approach and cost approach method of standard appraised value of land and buildings. The changes in fair value between the date of the assessment and the end of the reporting period are not determined to be significant, and therefore, fair value reassessment was not performed as of December 31, 2020.

## 12. <u>INTANGIBLE ASSETS:</u>

(1) Composition of intangible assets as of December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

## 1) December 31, 2020

						Computer	
	Development costs	Industrial property rights	Membership	Goodwill	Construction in progress	software and others	Total
	₩41,656,795	₩3,426,526	₩17,885,206	₩7,515,051	₩12,969,050	₩94,000,503	₩177,453,131
Acquisition cost							
Accumulated depreciation	(21,359,680)	(1,026,132)	-	-	-	(71,134,397)	(93,520,209)
Accumulated impairment loss	(2,746,461)	(1,308)	(2,168,581)	(3,214,212)	-	(1,361)	(8,131,923)
Government subsidies	-	-	-	-	-	(374)	(374)
Total	₩17,550,654	₩2,399,086	₩15,716,625	₩4,300,839	₩12,969,050	₩22,864,371	₩75,800,625

## 2) December 31, 2019

						Computer	
	Development costs	Industrial property rights	Membership	Goodwill	Construction in progress	software and others	Total
Acquisition cost	₩28,790,128	₩3,359,813	₩29,024,312	₩12,348,425	₩1,427,550	₩92,768,510	₩167,718,738
Accumulated amortization	(20,265,018)	(781,777)		-	-	(66,408,054)	(87,454,849)
Accumulated impairment loss	(2,746,461)	(1,307)	(2,375,267)	(5,435,209)	-	(1,363)	(10,559,607)
Government subsidies	-	-	-	-	-	(12,077)	(12,077)
Total	₩5,778,649	₩2,576,729	₩26,649,045	₩6,913,216	₩1,427,550	₩26,347,016	₩69,692,205

(2) Changes in intangible assets for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands)

## 1) Year ended December 31, 2020

		Industrial				Computer	
	Development costs	property rights	Membership	Goodwill	Construction in progress	software and others	Total
Beginning balance	₩5,778,649	₩ 2,576,729	₩26,649,045	₩ 6,913,216	₩1,427,550	₩26,347,016	₩69,692,205
Acquisition	-	66,494	-	-	154,958	3,836,415	4,057,867
Increase due to internal development	-	-	-	-	25,770,847	-	25,770,847
Disposals	-	-	(10,933,152)	-	-	(106,254)	(11,039,406)
Amortization	(2,613,252)	(244,137)	-	-	-	(7,212,383)	(10,069,772)
Transfers	14,384,305	-	-	-	(14,384,305)	-	-
Impairment loss	-	-	-	(2,612,377)	-	-	(2,612,377)
Effect of FX change	952		732			(423)	1,261
Ending balance	₩17,550,654	₩2,399,086	₩15,716,625	₩4,300,839	₩12,969,050	₩22,864,371	₩75,800,625

2) Year ended December 31, 2019

	Development costs	Industrial property rights	Membership	Goodwill	Construction in progress	Computer software and others	Total
Beginning balance	₩ 6,779,036	₩ 1,251,627	₩27,158,363	₩ 1,665,313	₩ -	₩ 16,420,773	₩53,275,112
Acquisition	81,629	580,341	-	-	-	12,878,438	13,540,408
Increase due to internal development	891,917	-	-	-	1,427,550	-	2,319,467
Disposals	-	(3,662)	(1,401,106)	-	-	(6,597)	(1,411,365)
Changes in scope of consolidation	-	1,005,756	-	5,247,903	-	3,584,873	9,838,532
Amortization	(1,972,735)	(257,333)	-	-	-	(6,673,898)	(8,903,966)
Reversal of impairment loss	-	-	890,000	-	-	-	890,000
Other	(1,800)	-	-	-	-	136,590	134,790
Effect of FX change	602		1,788			6,837	9,227
Ending balance	₩ 5,778,649	₩ 2,576,729	₩26,649,045	₩ 6,913,216	₩ 1,427,550	₩ 26,347,016	₩69,692,205

- (3) Details of accumulated impairment loss of goodwill as of December 31, 2020 and 2019, are as follows:
- 1) Carrying value of goodwill that is allocated to cash-generating unit before recognizing the impairment loss is as follows (Unit: Korean won in thousands ):

	Year ended		Ye	ar ended
	Decem	ber 31, 2020	December 31, 2019	
Biztech Partners Co., Ltd	₩	1,665,313	₩	1,665,313
Open Source Consulting		2,635,526		5,247,903
Total	₩	4,300,839	₩	6,913,216

2) Recoverable amount of cash-generating unit is determined based on the calculation of usage value, which is calculated using the estimation of cash flow after tax from business plan of five years, as approved by the management. Cash flow that exceeds five years is estimated in the range that does not exceed the long-term average growth rate of the industry that the cash-generating unit is involved in.

The group assessed the recoverable amount of goodwill allocated to Open Source Consulting and recognized an impairment loss of  $\mbox{$W$}2,612$  million in profit or loss. Meanwhile, the recoverable amount was determined based on the value of use, and the discount rate applied to measure the value of use is 14.2%.

- (4) Changes in government subsidies for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):
- 1) Year ended December 31, 2020

	Comp	uter software
	ar	nd others
Beginning balance	₩	12,077
Offsetting amortization		(11,703)
Ending balance	₩	374

2) Year ended December 31, 2019

	Compu	ter software
	and	dothers
Beginning balance	₩	53,016
Offsetting amortization		(40,939)
Ending balance	₩	12,077

- (5) Composition of disposal for the years ended December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):
- 1) Year ended December 31, 2020

	Membership	Software To	otal
Book value before disposal	₩10,933,152	₩ 106,254 ₩ 11,	,039,406
Disposal amount	10,718,670	11,620 10,	,730,290
Gain (loss) on disposal	₩ (214,482)	₩ (94,634) ₩ (3	309,116)

2) Year ended December 31, 2019

			Development					
	Membership Software costs			7	Total			
Book value before disposal	₩	1,401,106	₩	6,597	₩	3,662	₩1.	,411,365
Disposal amount		1,404,000		-		3,700	1,	407,700
Gain (loss) on disposal	₩	2,894	₩	(6,597)	₩	38	₩	(3,665)

## 13. <u>INVESTMENTS IN ASSOCIATES:</u>

(1) Compositions of the Group's investments in associates as of December 31, 2020 and 2019, are as follows:

Number	of	shares	held	and

				investments in capital	Number of shares issued	2020	2019
	Location of		Closing	mvestments in capitai	runiber of shares issued	Percentage of	Percentage of
Companies	incorporation	Major operation	date	Common stock	Common stock	ownership	ownership
Tmoney Co., Ltd. (*1)	South Korea	System software development and supply	Dec. 31	3,927,167	11,934,085	32.91%	32.91%
Songdo U- Life LLC (*2)	South Korea	Health care, integrated wireless environment, integrated smart cards and building management	Dec. 31	5,880	35,880	16.39%	16.39%
RECAUDO BOGOTA S.A.S.	Colombia	Public system development and service	Dec. 31	2,126	10,630	20.00%	20.00%
Hellas SmarTicket Societe Anonyme	Greece	Public system development and service	Dec. 31	22,500	75,000	30.00%	30.00%
Ulleungdo Natural Energy Co., Ltd.(*3)	South Korea	New and renewable energy	Dec. 31	1,600,000	5,360,000	29.85%	29.85%
Daegu clean energy Co., Ltd.	South Korea	Energy supply	Dec. 31	25,000	100,000	25.00%	25.00%
KEPCO-LG CNS Mangilao Holdings LLC (*4)	USA	New and renewable energy supply	Dec. 31	-	-	-	-
Cloudgram Co., Ltd. (*5)	South Korea	Hosting and related services, etc.	Dec. 31	1,075,000	3,075,000	34.96%	-
Korea DRD (*2,5)	South Korea	Information service business and blockchain technology related service business	Dec. 31	119,400	600,000	19.90%	-
Hempking (*5,6)	South Korea	System software development and supply	Dec. 31	-	100,000	-	-
danbee Inc. (*7)	South Korea	System software development and supply	Dec. 31	50,000	250,000	20.00%	-

- (\*1) During the prior year, the Company name changed from Korea Smart Card Co, Ltd. to Tmoney Co., Ltd.
- (\*2) The Group has significant influence as contractual right by which the Group is able to appoint one member of the board of directors, even though the percentage of shares owned is less than 20%.
- (\*3) During the prior year , the Group decided to liquidate at the shareholders' meeting and are calculating the remaining assets.
- (\*4) During the current year, the Group sold its rights as a shareholder, and until then, it exercised significant influence by contractual rights to appoint two out of six members of the board of directors.
- (\*5) Acquired during the current year.
- (\*6) Although significant influence is exercised under the contract between shareholders, it is classified as a financial asset measured at FVTPL as noted in Note 5 because it does not exercise its preferred stock conversion rights.
- (\*7) Acquired during the current year due to the exercise of the right to convert convertible bonds during the current year.

(2) Changes in investments in associates for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

#### 1) Year ended December 31, 2020

						Ga	in (loss) on			
						valua	ition of equity	Other changes in		
							method	equity using		Ending
Companies	Begin	ning balance	Acq	uisition	Dividend	ir	vestments	equity method	Others	balance
Tmoney Co., Ltd.	₩	52,797,805	₩		₩	₩	(5,938,012)	₩ 157,698	₩ -	₩47,017,491
Songdo U-Life LLC		612,510		-	-		(247,344)	-	-	365,166
RECAUDO BOGOTA S.A.S.		500,726		-	-		3,469,338	(1,232,992)	-	2,737,072
Hellas SmarTicket Societe Anonyme		4,158,986		-	(1,085,364)		1,321,507	154,896	-	4,550,025
Ulleungdo Natural Energy Co., Ltd.		4,591,982		-	-		4,909	-	(4,558,300)	38,591
Daegu Clean Energy Co., Ltd.(*1)		-		-	-		-	-	-	-
KEPCO-LG CNS Mangilao Holdings										
LLC (*2)		-		-	-		-	-	-	-
Cloudgram Co., Ltd.		-		19,887,500	-		(1,128,923)	-	-	18,758,577
Korea DRD				597,000	-		(4,438)	(8,042)	-	584,520
danbee Inc.		-		-			-			
Total	₩	62,662,009	₩	20,484,500	₩(1,085,364)	₩	(2,522,963)	₩ (928,440)	₩(4,558,300)	₩74,051,442

- (\*1) The net equity value at the end of the current year is  $$\mathbb{W}$11,414$ thousand, and it has been fully damaged before the current year. Equity method loss which was not recognized is <math>$\mathbb{W}$3,880$ thousand for Daegu Clean Energy Co.,$  Ltd
- (\*2) During the current year, the Group sold its rights as a shareholder of KEPCO-LG CNS Mangilao Holdings LLC, and the Group recorded an equity method loss of  $$\mathbb{W}$1,303,834$$  thousand.

 $\alpha$  ·  $\alpha$ 

## 2) Year ended December 31, 2019

			Gain (loss) on		
			valuation of	Other changes	
	Beginning		equity method	in equity using	
Companies	balance	Dividend	investments	equity method	Ending balance
Tmoney Co., Ltd.	₩ 47,786,563	₩ -	₩ 4,936,305	₩ 74,937	₩ 52,797,805
Songdo U-Life LLC	711,333	-	(98,823)	-	612,510
RECAUDO BOGOTA	-	-	(740,740)	1,241,466	500,726
S.A.S.					
Hellas SmarTicket Societe	3,737,896	(473,440)	839,339	55,191	4,158,986
Anonyme					
Ulleungdo Natural Energy	4,558,300	-	33,682	-	4,591,982
Co., Ltd.					
Daegu Clean Energy Co.,	-	-	-	-	-
Ltd.(*1)					
KEPCO-LG CNS Mangilao	-	-	-	-	-
Holdings LLC (*2)					
Total	₩ 56,794,092	₩ (473,440)	₩ 4,969,763	₩ 1,371,594	₩ 62,662,009

<sup>(\*2)</sup> During the prior year, the Group recorded an equity method loss of  $\mbox{$\mathbb{W}$}1,117,202$  thousand and other comprehensive income of  $\mbox{$\mathbb{W}$}60,131$  thousand, which exceeded the carrying amount of investments in associates, amounting to  $\mbox{$\mathbb{W}$}7,863,940$  thousand.

## (3) A summary of financial information of the associates as of December 31, 2020, is as follows (Unit: Korean won in thousands):

							Owners of the	Non-	
		Non-current	Total	Current	Non-current		Parent	controlling	
	Current assets	assets	assets	liabilities	liabilities	Total liabilities	Company	interests	Total equity
Tmoney Co., Ltd.	₩299,618,815	₩146,666,225	₩446,285,040	₩303,767,540	₩ 26,305,112	₩330,072,652	₩116,212,388	₩ -	₩116,212,388
Songdo U-Life LLC	4,932,609	17,260,501	22,193,110	-	166,280	166,280	22,026,830	-	22,026,830
RECAUDO BOGOTA S.A.S.	29,677,963	103,276,181	132,954,144	14,141,833	101,650,759	115,792,592	17,161,552	-	17,161,552
	( 19,215,685	29,854,403	49,070,088	13,017,986	20,835,913	33,853,899	15,216,189	-	15,216,189
Ulleungdo Natural Energy Co., Ltd.	15,635,727	1,962	15,637,689	-	-	-	15,637,689	-	15,637,689
Daegu Clean Energy Co., Ltd.	13,306	356,502	369,808	324,151	-	324,151	45,657	-	45,657
Cloudgram Co., Ltd.	23,167,046	191,417	23,358,463	4,337,088	510,083	4,847,171	18,511,292	-	18,511,292
Korea DRD Hempking danbee Inc.	3,096,383 547,500 1,054	-	547,500	172,347 - 148,687	-	172,347 - 148,687	2,937,282 547,500 (141,687)	-	2,937,282 547,500 (141,687)
danoet inc.	1,034	5,940	7,000	140,007	-	140,007	(141,007)	-	(141,007)

## (4) A summary of profit and loss of associates for the year ended December 31, 2020, is as follows (Unit: Korean won in thousands):

					Total comprehensive
		Profit (loss) from		Other comprehensive	income (loss) for the
	Revenue	continuing operations	Income tax expense	income (loss)	year
Tmoney Co., Ltd.	₩ 203,794,640	₩ (24,920,163)	₩ -	₩ 479,222	₩ 17,768,886
Songdo U-Life LLC	-	(279,514)	-	-	(1,509,306)
RECAUDO	41,601,078	(1,704,331)	(5,652,690)	(6,164,962)	11,181,723
BOGOTA S.A.S.					
Hellas SmarTicket	9,598,037	262,357	1,043,897	411,321	4,865,785
Societe Anonyme					
Ulleungdo Natural	-	(9,161)	-	-	16,445
Energy Co., Ltd.					
Daegu Clean Energy	-	(1,922)	-	-	(1,908)
Co., Ltd.					
Cloudgram Co., Ltd.	13,652,137	(3,438,661)	-	-	(3,229,249)
Korea DRD	5,217,000	(24,672)	-	-	(22,304)

(5) Adjustments to book value of investments in associates from net asset value of associates as of December 31, 2020, are as follows (Unit: Korean won in thousands):

				Hellas	Ulleungdo	Daegu		
				SmarTicket	Natural	Clean		
		Songdo U-	RECAUDO	Societe	Energy Co.,	Energy	Cloudgram	
	Tmoney Co., Ltd.	Life LLC .	BOGOTA S.A.S	Anonyme .	Ltd	Co., Ltd	Co., Ltd.	Korea DRD
Net assets of								
associates (A)	₩ 116,212,388	₩ 22,026,830	₩ 17,161,552	₩ 15,216,188	₩ 15,637,689	₩ 45,657	₩ 18,511,292	₩ 2,937,282
Ownership rate								
of the Group								
(B)	32.91%	16.39%	20.00%	30.00%	29.85%	25.00%	34.96%	19.90%
Controlling								
interest of net								
assets (A x B)	38,242,126	3,609,735	3,432,310	4,564,857	4,667,960	11,414	6,471,423	584,520
(+) Goodwill	8,776,673	3,493,041	-	-	-	-	12,287,159	-
(-) Elimination								
of								
intercompany								
transactions								
and others	(1,308)	-	-	(14,832)	(4,558,300)	3,880	(5)	-
(-) Impairment								
loss		(6,737,610)	(695,238)	_	(71,069)	(15,294)		
Ending balance	₩ 47,017,491	₩ 365,166	₩ 2,737,072	₩ 4,550,025	₩ 38,591	₩ -	₩ 18,758,577	₩ 584,520

## 14. <u>DEBENTURES AND BORROWINGS:</u>

(1) Short-term borrowings as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

		Annual	December 31,	December 31,
	Creditor	interest rate (%)	2020	2019
Short-term borrowings in KRW	Kookmin bank	3.95%	₩ 3,000,000	₩ -
	Korea			
Foreign currency short-term borrowings	Exchange Bank and others	1.39% ~ 7.90%	26,665,108	24,620,328
Ending balance			₩ 29,665,108	₩ 24,620,328

(2) Debentures from long-term borrowings as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

				Annual				
				interest		December		December
Company	Description	Issue date	Maturity date	rate (%)		31, 2020		31, 2019
LG CNS	In ninth, second public offering							
Co., Ltd.	of debentures	2015-04-16	2020-04-16	2.07	₩	-	₩	100,000,000
	In ninth, third public offering of	f						
	debentures	2015-04-16	2022-04-16	2.44		50,000,000		50,000,000
	In tenth, first public offering of							
	debentures	2017-04-11	2020-04-11	2.1		-		110,000,000
	In tenth, second public offering							
	of debentures	2017-04-11	2022-04-11	2.45		40,000,000		40,000,000
	In eleventh, first public offering	5						
	of debentures	2018-04-11	2021-04-11	2.55		90,000,000		90,000,000
	In eleventh, second public							
	offering of debentures	2018-04-11	2023-04-11	2.83		110,000,000		110,000,000
	In Twelfth, first public offering							
	of debentures	2020-05-14	2023-05-12	1.6		150,000,000		-
	In Twelfth, second public							
	offering of debentures	2020-05-14	2025-05-14	1.75		50,000,000		-
	In Twelfth, third public							
	offering of debentures	2020-05-14	2027-05-14	1.99		100,000,000		-
	In second, second public							
	offering of debentures	2015-05-29	2020-05-29	2.89		_		20,000,000
	Subtota	al				590,000,000		520,000,000
	Discount on de	ebentures				(1,217,337)		(613,243)
	Current portion of	f debentures				(89,972,432)		(229,933,714)
	Tota	l			₩	498,810,231	₩	289,453,043

## 15. PROVISIONS:

- (1) Changes in provisions for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):
- 1) Year ended December 31, 2020

	Beginning balance	Increase	Usage	Reversal	Others	Ending balance
Provision for construction (product)	W17 661 975	₩15 000 726	W (7.050.707)	W (2.774.024)	W (22 200)	W22 002 500
warranties Restoration	₩17,661,875	₩15,999,736	₩ (7,959,797)	₩ (2,774,924)	₩ (23,390)	₩22,903,500
liabilities (*1)	2,584,106	100,775	-	(1,361,325)	118	1,323,674
Others	28,343,368	9,358,408	(14,498,024)	(11,401,790)	(326,653)	11,475,309
Total	₩48,589,349	₩25,458,919	₩(22,457,821)	₩(15,538,039)	₩ (349,925)	₩35,702,483

(\*1) Increases in valuation of present value for the year ended December 31, 2020, amounting to \$56,969 thousand are included in increase of provisions.

## 2) Year ended December 31, 2019

	Beginning balance	Changes in the scope of consolidation	Usage	Reversal	Increase	Others (*2)	Ending balance
Provision for construction (product)							
warranties	₩15,890,253	₩(2,167,340)	₩ (7,665,024)	₩ (2,588,986)	₩ 14,188,928	₩ 4,044	₩17,661,875
Restoration							
liabilities (*1)	2,476,472	-	-	(158,648)	260,369	5,913	2,584,106
Others	34,088,764	(3,108,081)	(10,804,992)	(5,625,603)	9,924,247	3,869,033	28,343,368
Total	₩52,455,489	₩(5,275,421)	₩ (18,470,016)	₩ (8,373,237)	₩ 24,373,544	₩ 3,878,990	₩48,589,349

- (\*1) Increases in valuation of present value for the year ended December 31, 2019, amounting to  $\mbox{$W$260,369$}$  thousand are included in increase of provisions.
- (\*2) Readjustment of adjustments for the previous year, amounting to ₩3,808,883 thousand are included.
- (2) Nature of provision and expected timing for outflow of economic benefits as of December 31, 2020, are as follows (Unit: Korean won in thousands):

	Within 12 months	After 12 months	Total
Provision for construction (product)			
warranties (*1)	₩ 22,903,500	₩ -	₩ 22,903,500
Restoration liabilities (*2)	34,404	1,289,270	1,323,674
Others (*3)	11,475,309		11,475,309
Total	₩ 34,413,213	₩ 1,289,270	₩ 35,702,483

- (\*1) Provisions estimation for construction warranties, which would be expected in post service revenue.
- (\*2) Provisions estimation measured at present value of future restoration costs on leased assets.
- (\*3) Provisions estimation in relation to hardware and system integration constructions.

## 16. <u>RETIREMENT BENEFIT PLAN:</u>

## (1) Defined contribution plan

The Group operates a defined contribution plan for its employees. The obligation of the Group is to make payments to third-party funds, and the benefits for employees are determined by the payments made to the funds and the investment earnings from the funds. Plan assets are managed by the third party, and are segregated from the Group's assets. The contribution to the defined contribution plan for the years ended December 31, 2020 and 2019, is  $$\mathbb{W}46,000,369$$  thousand and  $$\mathbb{W}41,845,641$$  thousand, respectively. Other accounts payable in relation to defined contribution plans as of December 31, 2020 and 2019, are  $$\mathbb{W}5,097,111$$  thousand and  $$\mathbb{W}6,216,097$$  thousand, respectively.

## (2) Defined benefit plan

The Group operates a defined benefit plan for its employees; according to the plan, the employees will be paid their average salary amount of the final three months multiplied by the number of years vested, adjusted for payment rate and other. The valuation of related plan assets and the defined benefit liability is performed by an independent reputable actuary using the projected unit credit method on its present value, relevant current service cost and past service costs.

1) As of December 31, 2020 and 2019, amounts recognized in the consolidated statements of financial position related to retirement benefit obligation are as follows (Unit: Korean won in thousands):

	December 31, 2020			December 31, 2019	
Present value of defined benefit obligation	₩	15,047,231	₩	13,951,352	
Fair value of plan assets		(13,667,859)		(13,001,027)	
Net defined benefit liability	₩	1,379,372	₩	950,325	

2) Changes in defined benefit obligations for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Year ended December 31, 2020		_	Year ended mber 31, 2019
Beginning balance	₩	13,951,352	₩	17,675,722
Current service cost		2,398,248		2,421,981
Interest cost		250,230		367,507
Actuarial gain or loss		50,549		(612,610)
Benefits paid		(1,584,585)		(3,901,803)
Changes in the scope of consolidation		-		(550,906)
Affiliates transfer		3,446		(1,503,926)
Others		(22,009)		55,387
Ending balance	₩	15,047,231	₩	13,951,352

3) Income and loss related to defined benefit plan for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

		Year ended December 31, 2020		ear ended aber 31, 2019
Service cost:	₩	2,398,248	₩	2,421,981
Current service cost		2,398,248		2,421,981
Net interest on the net defined benefit liability:		31,491		21,682
Interest cost on defined benefit obligation		250,230		367,507
Comprising interest on plan assets		(218,739)		(345,825)
Others		22,039		21,209
Total	₩	2,451,778	₩	2,464,872

On the other hand, defined benefit plan gain or loss is allocated to each item as follows (Unit: Korean won in thousands):

	Year ended		Year ended	
	Decem	ber 31, 2020	December 31, 2019	
Amounts included in the retirement benefits	₩	2,066,579	₩	1,997,878
Amounts included in the cost of production		385,199		466,994
Total	₩	2,451,778	₩	2,464,872

4) Changes in plan assets for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Year ended December 31, 2020	Year ended December 31, 2019
Beginning balance	₩ 13,001,027	₩ 15,944,859
Comprising interest on plan assets	218,739	345,825
Remeasurements - return on plan assets	21,422	(41,108)
Affiliates transfer	-	437,063
Others	(22,039)	(21,066)
Benefits paid	(1,584,585)	(3,664,692)
Contributions from the employer	2,034,000	-
Effect of foreign currency translation	(705)	146
Ending balance	₩ 13,667,859	₩ 13,001,027

- 5) All the plan assets are invested in financial instruments that guarantee principal and interest rate as of December 31, 2020 and 2019.
- 6) Actuarial assumptions used as of December 31, 2020 and 2019, are as follows:

	December 31, 2020	December 31, 2019
Discount rate (%)	1.4%-5.5%	1.8%-6.0%
Expected rate of salary increase (%)	5.0%-9.8%	5.0% - 9.8%

7) The sensitivity analysis of the defined benefit obligation as of December 31, 2020, is as follows (Unit: Korean won in thousands):

	Cent	ter scenario		(+) 1%		(-) 1%
Change in discount rate	₩	15,047,231	₩	14,547,895	₩	15,582,666
Change in rate of salary increase		15,047,231		15,561,182		14,557,325

- (\*) The above sensitivity is estimated based on the assumption that all other respective assumptions remain unchanged.
- 8) Remeasurements related to net defined benefit liability for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

		Year ended December 31, 2020		Year ended December 31, 2019	
Actuarial losses arising from		_			
changes in demographic assumptions	₩	(22,935)	₩	15,632	
Actuarial gains arising from					
changes in financial assumptions		164,791		(251,627)	
Actuarial losses arising from					
experience		(91,307)		(62,065)	
Return on plan assets, excluding amounts					
included in interest income		(21,422)		41,108	
Actuarial losses arising from					
transfer in/out adjustments				(314,550)	
Total	₩	29,127	₩	(571,502)	

9) Estimated contribution that will be paid in the next fiscal year is as follows (Unit: Korean won in thousands):

(\*) The expected amount for 2021 is calculated assuming that the ratio of the plan assets to the retirement benefit allowance at the end of 2020 will be maintained at the end of 2021.

## 17. OTHER LIABILITIES:

Other liabilities as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	December	r 31, 2020	December 31, 2019		
	Current	Non-current	Current	Non-current	
Advance receipts (*)	₩ 5,552,734	₩ -	₩ 3,681,190	₩ -	
Withholding value-added tax	38,181,141	-	52,250,014	-	
Withholdings	35,035,996	-	33,547,583	-	
Unearned income	218,889	-	46,730	-	
Contract liabilities	119,390,162	-	111,620,266	-	
Government subsidies	170,934	-	12,337	-	
Other long-term employee liabilities		11,894,275		10,513,150	
Total	₩ 198,549,856	₩ 11,894,275	₩ 201,158,120	₩ 10,513,150	

#### 18. <u>CONTRACT ASSETS AND LIABILITIES:</u>

(1) Contract assets as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	December 31, 2020			cember 31, 2019
Construction contract	₩	172,662,826	₩	196,297,832
Deductions: allowance for losses		(6,124,816)		(5,885,494)
Total	₩	166,538,010	₩	190,412,338

During this year, there are no changes in estimates or assumptions used in assessing the loss allowance for contract assets in construction contract.

(2) Changes in expected credit losses of contract assets as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Decem	ber 31, 2020	December 31, 2019		
Beginning balance	₩	5,885,494	₩	6,811,724	
Increase in allowance for loss		239,322		(926,230)	
Ending balance	₩	6,124,816	₩	5,885,494	

(3) Contract liabilities as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Dece	mber 31, 2020	December 31, 2019		
Construction contracts	₩	83,973,378	₩	59,021,924	
Equipment supply and maintenance		35,416,784		52,598,342	
Total	₩	119,390,162	₩	111,620,266	

The contract liabilities related to the construction contract is the balance received from the customer in accordance with the construction contract, and it occurs when the amount received under the milestone exceeds the revenue recognized until then under the cost-based input method. There was no significant change in the contract liabilities balance during the reporting year.

(4) The following shows how much of the revenue recognized relates to carryforward contract liabilities as of December 31, 2020 and 2019. No revenue related to performance obligations carried out in a prior year is recognized on December 31, 2020 (Unit: Korean won in thousands):

	December 31, 2020		December 31, 2019	
Construction contracts	₩	56,738,596	₩	68,249,859
Equipment supply and maintenance	-	48,209,021		
Total	₩	104,947,617	₩	68,249,859

(5) As of January 1, 2020, changes in estimation of the total contract amount and the total contract cost for contracts that recognize revenue over time by using the cost-based input method, and effects of profit and loss of current and future periods, contract assets and liabilities are as follows (Unit: Korean won in thousands):

	Change in				Changes in contract
	estimated total contracted amount	Change in estimated total contracted cost	Impact on gain and loss for this year	Impact on gain and loss in the future	assets (contract liabilities)(*2)
Construction					
contract(*1)	₩ 14,273,408	₩ 21,518,726	₩ (2,810,042)	₩ (4,435,276)	$\forall$ (2,653,191)

(\*1) The Group has only one operating segment in accordance with K-IFRS 1108.

(\*2) The contract loss provisions related to construction contracts as of December 31, 2020, are \,\text{\psi}4,955,277 thousand.

(6) During the current period, there are no details of major contracts in which the contract amount is more than 5% of the prior term sales, as the contract recognized the progress-based profit by applying the cost-based input method during the current term.

#### 19. <u>ISSUED CAPITAL:</u>

Details of the Parent Company's issued capital as of December 31, 2020, are as follows (Unit: Korean won in thousands):

	Number of	Number of	Number of		Amount of	
Type of	shares	shares	shares owned	Par value	issued	Amount of
stock	authorized	issued	by related party	(USD)	capital(*)	capital surplus
Common						
stock	400,000,000	87,197,353	45,623,918	₩ 500	₩ 47,198,411	₩ 46,625,595

<sup>(\*)</sup> As the Parent Company purchased 7,199,469 shares via tender offer at \$\pm\$12,000 per share and retired them before the prior year, the issued capital and the number of stocks issued multiplied by face value are not equal.

#### 20. CAPITAL SURPLUS:

Composition of capital surplus as of December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

_	December 31, 2020		December 31, 2019	
Paid-in capital in excess of par value	₩	46,625,595	₩	46,625,595
Gains on sale of treasury stock		454,597		454,597
Consolidated capital surplus		(10,386,880)		(10,386,880)
Total	₩	36,693,312	₩	36,693,312

## 21. ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS):

(1) Details of accumulated other comprehensive income (loss) as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	December 31, 2020		December 31, 2019	
Changes in capital change in equity method	₩	2,973,620	₩	4,202,477
Gain or loss on valuation of financial assets at FVTOCI		(14,884,869)		(14,764,272)
Gain or loss on translation of foreign operations		(6,993,509)		(5,320,888)
Gain or loss on disposal of financial assets at FVTOCI		(153,108)		(151,879)
Total	₩	(19,057,866)	₩	(16,034,562)

Losses / gains on valuation of financial assets measured at FVTOCI related to equity instruments are recognized in the cumulative gain or loss, except for the amount replaced with retained earnings at the time of disposal. Gains and losses related to debt instruments are calculated by adding or deducting the amount reclassified to profit or loss as a result of accumulated depreciation and reversal from cumulative gain or loss.

Equity instruments designated as FVTOCI are not recognized for impairment. Accumulated gains and losses arising from the valuation of those equity instruments are not subsequently reclassified to profit or loss.

Change in fair value due to credit risk of financial liabilities measured at FVTOCI are recognized in the cumulative gain or loss. Accumulated gains and losses arising from the valuation are not subsequently reclassified to profit or loss.

(2) Changes in capital change in equity method for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Y	ear ended	Ye	ear ended
	Decer	mber 31, 2020	Decen	nber 31, 2019
Beginning balance	₩	4,202,477	₩	2,743,474
Changes in capital change in equity method		(1,249,964)		1,484,434
Income tax effect		21,107		(25,431)
Ending balance	₩	2,973,620	₩	4,202,477

(3) Changes in loss on financial assets at FVTOCI for the years ended December 31, 2019 and 2019, are as follows (Unit: Korean won in thousands):

	Year ended Year en		Year ended
	December 31, 2020		ember 31, 2019
Beginning balance	₩ (14,764,272)	₩	(14,507,630)
Changes in loss on valuation of financial assets at FVTOCI	(159,099)		(338,578)
Income tax effect	38,502		81,936
Ending balance	₩ (14,884,869)	₩	(14,764,272)

(4) The changes in gain (loss) on translation of foreign operations for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Y	ear ended	Year ended		
	Dece	mber 31, 2020	Dece	mber 31, 2019	
Beginning balance	₩	(5,320,888)	₩	(6,029,914)	
Changes in gain or loss on translation of foreign operations		(1,672,621)		709,026	
Ending balance	₩	(6,993,509)	₩	(5,320,888)	

### 22. <u>RETAINED EARNINGS AND DIVIDENDS:</u>

Changes in retained earnings for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Year ended	Year ended
	December 31, 2020	December 31, 2019
Beginning balance	₩ 1,152,845,965	₩ 1,030,556,232
Profit for the year attributable to owners of the Parent		
Company	167,079,303	163,843,086
Dividends (*)	(99,404,982)	(41,854,729)
Remeasurements of net defined benefit liability	(29,127)	571,502
Related income tax	(1,793)	(139,691)
Changes in retained earnings using the equity method	437,195	(130,435)
Ending balance	₩ 1,220,926,561	₩ 1,152,845,965

(\*) Details of dividends for the years ended December 31, 2020 and 2019, are as follows:

	Y	ear ended	Y	ear ended
	Decer	mber 31, 2020	Decer	nber 31, 2019
Number of authorized shares		87,197,353		87,197,353
Treasury stock		<u>-</u>		=
Number of shares for dividend		87,197,353		87,197,353
Dividend per share (Unit: Korea won)	₩	1,140	₩	480
Total dividends (Unit: Korean won in thousands)	₩	99,404,982	₩	41,854,729

### 23. OPERATING INCOME AND LOSS:

(1) The Group recognizes revenue by transferring goods and services over a period of time or at a time in the following major business unit. The division of major business unit is consistent with the information of revenue disclosure by reporting segment in accordance with K-IFRS 1108 (Unit: Korean won in thousands):

	Year ended December 31, 2020		Year ended December 31, 2019		
Revenue recognized at a point in time					
Sales of merchandise					
Equipment supply	₩	503,557,310	₩	587,372,452	
Others		164,349,792		177,455,798	
Sales of finished goods					
Equipment supply		<u>-</u>		672,071	
Subtotal	₩	667,907,102	₩	765,500,321	
Revenue recognized over the period					
Service revenue					
Maintenance work		1,360,413,690		1,234,019,652	
Construction contract revenue					
Development service		946,041,638		916,850,860	
Revenue from construction contract		386,123,097		366,943,431	
Subtotal		2,692,578,425		2,517,813,943	
Total	₩	3,360,485,527	₩	3,283,314,264	

(2) Details of operating income or loss for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	I	Year ended December 31, 2020		Year ended December 31, 2019
Sales of merchandise	₩	667,907,102		764,828,250
Sales of finished goods		-		672,071
Service revenue		1,360,413,690		1,234,019,652
Construction revenue		1,332,164,735		1,283,794,291
REVENUE	₩	3,360,485,527	₩	3,283,314,264
Sales of merchandise		597,719,118		678,266,670
Sales of finished goods		-		1,357,926
Service revenue		1,132,687,450		1,059,789,906
Construction revenue		1,115,146,301		1,079,176,651
COST OF SALES		2,845,552,869		2,818,591,153
GROSS PROFIT		514,932,658		464,723,111
Salaries and wages		133,259,426		105,483,828
Severance benefits		10,353,273		8,818,956
Welfare		23,866,604		20,897,561
Depreciation		6,669,462		6,115,103
Amortization of intangible assets		3,427,253		2,739,809
Research and development expenses		32,883,086		36,661,006
Commission		9,632,344		10,365,999
Training expenses		4,513,174		7,074,951
Service contract expenses		17,198,790		15,193,575
Rent expense		4,773,167		2,970,002
Bad debt expenses (reversal)		(7,153,956)		(249,467)
Increase in provision (reversal)		(2,412,069)		341,589
Others		31,801,457		35,461,669
SELLING AND ADMINISTRATIVE EXPENSES		268,812,011		251,874,581
OPERATING INCOME	₩	246,120,647	₩	212,848,530

## 24. <u>CLASSIFICATION OF EXPENSES BY NATURE:</u>

1) Year ended December 31, 2020 (Unit: Korean won in thousands):

Account	Selling and Changes in administrative inventories expenses (*)		lministrative	Maı	nufacturing cost	Nati	ure of expenses	
Changes in inventories:	₩	22,592,122	₩	-	₩	908,316,180	₩	930,908,302
Merchandise		22,941,424		-		573,885,180		596,826,604
Other inventories		(349,302)		-		334,431,000		334,081,698
Used raw material		-		-		510,859		510,859
Employee benefits		-		167,479,302		639,630,042		807,109,344
Depreciation and amortization		-		10,096,715		70,864,646		80,961,361
Commission expenses		-		9,632,344		149,316,429		158,948,773
Lease expenses		-		4,773,167		31,401,586		36,174,753
Outsourcing service		-		17,198,790		845,610,465		862,809,255
Other expenses and								
consolidation adjustments				59,631,693		177,310,541		236,942,234
Total	₩	22,592,122	₩	268,812,011	₩	2,822,960,748	₩	3,114,364,881

- (\*) Consolidation adjustments are reflected on each account of selling and administrative expenses.
- 2) Year ended December 31, 2019 (Unit: Korean won in thousands):

Account	Changes in admi		Selling and administrative expenses (*) N		Mar	nufacturing cost	Nati	are of expenses
Changes in inventories:	₩	(5,889,261)	₩	-	₩	932,621,743	₩	926,732,482
Work in progress		133,204		-		-		133,204
Merchandise		(5,274,972)		-		683,541,642		678,266,670
Other inventories		(747,493)		-		249,080,101		248,332,608
Used raw material		-		-		1,366,818		1,366,818
Employee benefits		-		135,200,345		634,425,624		769,625,969
Depreciation and amortization		-		8,854,912		74,135,700		82,990,612
Commission expenses		-		10,365,999		118,452,512		128,818,511
Lease expenses		-		2,970,002		19,072,314		22,042,316
Outsourcing service		-		15,193,575		855,097,376		870,290,951
Other expenses and								
consolidation adjustments		-		79,289,748		189,308,327		268,598,075
Total	₩	(5,889,261)	₩	251,874,581	₩	2,824,480,414	₩	3,070,465,734

<sup>(\*)</sup> Consolidation adjustments are reflected on each account of selling and administrative expenses.

### 25. FINANCIAL REVENUES AND FINANCIAL EXPENSES:

(1) Financial revenues for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Y	ear ended	Year ended December 31, 2019		
	De	cember 31,			
		2020			
Interest income	₩	7,621,955	₩	7,678,020	
Dividend income		80,702		14,096	
Gain on foreign currency transactions (non-operating)		2,044,738		643,278	
Gain on foreign currency translation (non-operating)		-		357,560	
Gain on valuation of financial assets at FVTOCI		151,693		211,271	
Total	₩	9,899,088	₩	8,904,225	

(2) Interest income included in financial revenues for the years ended December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

	Y	ear ended	Year ended		
	Dec	cember 31,	December 31,		
		2020	2019		
Interest income by effective interest method		_		_	
Financial assets measured at amortized cost	₩	7,621,955	₩	7,678,020	
Total	₩	7,621,955	₩	7,678,020	

(3) Financial expenses for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

		Year ended ecember 31, 2020		Year ended December 31, 2019		
Interest expense	₩	16,128,079	₩	16,887,059		
Loss on foreign currency transactions (non-operating)		1,723,398		1,358,370		
Loss on foreign currency translation (non-operating)		305,205		29,665		
Financial guarantee cost		-		33,042		
Loss on disposal of financial assets at FVTPL		8		1,032		
Impairment loss on financial assets at FVTPL		201,952		-		
Total	₩	18,358,642	₩	18,309,168		

(4) Interest expense included in financial expenses for the years ended December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

	Year ended December 31, 2020	Year ended December 31, 2019	
D 1 1 C 11 1			
Bank overdrafts and loan interest	₩ 970,375	₩ 2,038,902	
Interest expense on lease	1,392,612	1,560,873	
Interest expense on debentures	12,680,766	13,021,343	
Other interest expense	1,378,442	306,741	
Less: Capitalized interest expense			
included in qualified assets (*)	(287,988)	(36,818)	
Subtotal	16,134,207	16,891,041	
Consolidation adjustments	(6,128)	(3,982)	
Total	₩ 16,128,079	₩ 16,887,059	

(\*) Capitalized interest rates used for the years ended December 31, 2020 and 2019, are 2.37% and 2.54%, respectively.

# 26. OTHER NON-OPERATING INCOME AND EXPENSES:

Other non-operating income and expenses for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Year ended	Year ended	
	December 31, 2020	December 31, 2019	
OTHER NON-OPERATING INCOME:	₩ 51,019,651	₩ 26,126,313	
Rental income	2,199,537	2,140,146	
Commission	302,489	171,030	
Gain on foreign currency transaction (operating)	10,823,404	8,640,802	
Gain on foreign currency translation (operating)	3,034,201	1,969,835	
Gain on disposal of tangible assets	456,840	381,415	
Gain on disposal of intangible assets	989	3,479	
Gain on transactions of derivatives (operating)	17,740,512	8,533,789	
Gain on valuation of derivatives (operating)	2,332,733	1,981,158	
Gain on disposal of investments in subsidiaries	-	651,900	
Miscellaneous income	1,658,330	431,678	
Other reversal of allowance for doubtful accounts	107,521	-	
Reversal of impairment of intangible assets	-	890,000	
Others	12,363,095	331,081	
OTHER NON-OPERATING EXPENSES:	₩ 54,260,226	₩ 26,759,509	
Impairment losses on tangible assets	11,481,937	176	
Impairment losses on intangible assets	2,612,377	-	
Loss on foreign currency transaction (operating)	7,770,241	6,182,773	
Loss on foreign exchange translation (operating)	7,064,511	2,151,497	
Loss on disposal of tangible assets	1,305,954	52,764	
Loss on disposal of intangible assets	310,105	7,145	
Loss on transactions of derivatives (operating)	18,795,478	15,910,718	
Loss on valuation of derivatives (operating)	326,494	330,389	
Loss on disposal of investments in subsidiaries	3,500	473,009	
Miscellaneous loss	123,549	363,990	
Other bad debt expenses	1,323,292	289,595	
Donations and contributions	1,558,041	880,031	
Others	1,584,747	117,423	

## 27. <u>CATEGORIZED PROFIT AND LOSS OF FINANCIAL INSTRUMENT:</u>

Net gains (losses) by financial instrument for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Year ended		Year ended	
	Decen	nber 31, 2020	Decer	nber 31, 2019
Financial assets:				
Financial asset at FVTPL	₩	20,040,878	₩	10,733,378
Financial asset at FVTOCI		(57,795)		(250,738)
Financial assets at amortized cost (*)		9,753,282		9,604,757
Subtotal	₩	29,736,366	₩	20,087,397
Financial liabilities:		_		
Financial liabilities at FVTPL	₩	(19,121,972)	₩	(16,241,107)
Financial liabilities at amortized cost		(12,630,489)		(17,385,055)
Subtotal		(31,752,461)		(33,626,162)
Total	₩	(2,016,095)	₩	(13,538,765)

<sup>(\*)</sup> Net gain or loss arising from cash and cash equivalents is included.

## 28. INCOME TAX:

(1) Composition of income tax expense for the years ended December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

	Year ended		Year ended		
	December 31,		December 31,		
		2020	2019		
Current income tax payable	₩	58,245,211	₩	38,475,011	
Adjustment related to prior income tax expense		(946,182)		370,053	
Tax expenses related to the variation of temporary					
difference:		10,135,179		6,010,457	
Effect of translation	(57,430)		30,274		
Beginning deferred tax assets due to temporary					
differences		41,168,814		47,232,183	
Ending deferred tax assets due to temporary					
differences		31,034,021		41,168,814	
Tax effect related to change in other					
comprehensive income		57,816		(83,186)	
Decrease (increase) in deferred tax assets		(2,234,484)		(432,409)	
Others		17,186		(554,137)	
Income tax expense	₩	65,216,910	₩	43,868,975	

(2) Reconciliation between accounting income and income tax expense of the Group for the years ended December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

	Year ended December 31, 2020		Year ended December 31, 2019	
Income (loss) before income tax expense	₩	231,710,922	₩	207,321,162
Tax expense calculated on book income		58,777,849		53,622,184
Adjustments:		6,439,061		(9,753,209)
Non-taxable income		(72,863)		98,740
Non-deductible expense		1,678,480		2,313,012
Income tax for the past period adjustments recognized				
in the current period		(946,182)		545,118
Temporary differences not recognized as deferred tax				
assets		(3,210,906)		(8,077,027)
Adjustment of foreign payment tax amount		7,210,391		-
Tax deduction		2,775,600		-
Others		(995,459)		(4,663,052)
Income tax expense (benefit)	₩	65,216,910	₩	43,868,975

(3) Income tax directly reflected in equity for the years ended December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

Year ended		Year ended	
December 31,		December 31,	
2020		2019	
₩	21,107	₩	(25,431)
	38,502		81,936
	(1,793)		(139,691)
₩	57,816	₩	(83,186)
	Dece W	December 31, 2020 ₩ 21,107 38,502 (1,793)	December 31, December 31, 2020  ₩ 21,107 38,502 (1,793)

- 3) Year ended December 31, 2020
- (4) Changes in deferred tax assets (liabilities) for the year ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):
  - 1) Year ended December 31, 2020

	Reflected in income Beginning balance (loss)		Er	nding balance		
Temporary differences:						
Valuation of derivative instruments	₩	(412,720)	₩	(67,186)	₩	(479,906)
Subsidiary shares and associated shares		-		806,871		806,871
Property, plant and equipment		8,774,113		(1,849,618)		6,924,495
Intangible assets		(116,543)		(134,041)		(250,584)
Financial asset at FVTOCI		1,148,219		(769,948)		378,271
Provisions		19,084,047		(6,508,314)		12,575,733
Doubtful receivables		984,796		(24,503)		960,293
Others		12,662,019		1,540,777		14,202,796
Carried forward tax credit		3,289,043		(3,661,981)		(372,938)
Consolidation adjustments		(4,244,160)		533,150		(3,711,010)
Deferred income tax assets	₩	41,168,814	₩	(10,134,793)	₩	31,034,021

## 2) Year ended December 31, 2019

	Reflected in income					
	Begi	nning balance	(loss)		End	ing balance
Temporary differences:						
Valuation of derivative instruments	₩	(180,847)	₩	(231,873)	₩	(412,720)
Property, plant and equipment		7,342,774		1,431,339		8,774,113
Intangible assets		1,192,252		(1,308,795)		(116,543)
Financial asset at FVTOCI		5,445,156		(4,296,937)		1,148,219
Provisions		21,984,115		(2,900,068)		19,084,047
Doubtful receivables		120,844		863,952		984,796
Others		12,851,918		(189,899)		12,662,019
Carried forward tax credit		1,313,422		1,975,621		3,289,043
Consolidation adjustments		(2,837,451)		(1,406,709)		(4,244,160)
Deferred income tax assets	₩	47,232,183	₩	(6,063,369)	₩	41,168,814

(5) As of December 31, 2020 and 2019, temporary differences not recognized as deferred tax (except for assets (liabilities) related to investment assets and equity interest) are as follows (Unit: Korean won in thousands):

	Decer	nber 31, 2020	Decemb	December 31, 2019		
Temporary differences	₩	₩ 23,746,349		316,543		
Tax deficit		7,658,321		233,678		
Unused tax credit		97,056		54,702		

(6) As of December 31, 2020 and 2019, temporary differences not recognized as deferred tax assets (liabilities) related to investment asset and equity interest are as follows (Unit: Korean won in thousands):

	Dece	mber 31, 2020	December 31, 2019		
Investments in subsidiaries	₩	(30,188,650)	₩	(53,899,736)	
Investments in associates		3,048,967		12,612,126	
Total	₩	(27,139,683)	₩	(41,287,610)	

### 29. EARNING PER SHARE:

- (1) Basic EPS, which is referred to net profit per one common stock, is measured by dividing profit (loss) for the year attributable to common stocks of the Parent Company by weighted-average numbers of common shares outstanding during a specified period.
- (2) EPS for the years ended December 31, 2020 and 2019, is calculated as follows (Unit: Korean won in thousands, except for EPS):
- 1) Year ended December 31, 2020

B	asic EPS	Total EPS		
₩	167,079,303	₩	167,079,303	
	-		-	
	-		-	
	167,079,303		167,079,303	
	87,197,353		87,197,353	
₩	1,916	₩	1,916	
	₩	167,079,303	₩ 167,079,303 ₩ - - 167,079,303 87,197,353	

- (\*) There are no potential common shares of the Parent company, and therefore, diluted EPS is equal to EPS.
- 2) Year ended December 31, 2019

	В	asic EPS	T	otal EPS
Profit for the year attributable to owners				·
of the Parent Company	₩	163,843,086	₩	163,843,086
Less: Net profit of preferred stock		-		-
Profit available for dividend				
attributable to preferred owners		-		-
Profit for the year attributable to				
common stock owners of the Parent				
Company		150,591		150,591
Weighted-average number of common				
shares outstanding				
(after treasury stock)		87,197,353		87,197,353
EPS (in Korea Won) (*)	₩	1,879	₩	1,879

(\*) There are no potential common shares of the Parent Company, and therefore, diluted EPS is equal to EPS.

## 30. <u>RELATED-PARTY TRANSACTIONS:</u>

(1) Details of related parties of the Group as of December 31, 2020 and 2019, are as follows:

## 1) December 31, 2020

Parent Company (including the ultimate controlling party and its associates)	Subsidiaries, joint ventures and associates of the Parent Company (domestic) (*1)	Subsidiaries, joint ventures and associates of the Parent Company (foreign) (*1)
The ultimate controlling party and		(loreign) (*1)
LG Corp.	d its subsidiaries.	LG Holdings Japan Co., Ltd. (*2)
EG Corp.	S&I Corporation Co., Ltd. and six	Do Holdings Jupan Co., Etc. (2)
	others (*2)	S&I NANJING Co., Ltd. and nine others
	LG Management Development	
	Institute	
	LG Sports Ltd.	
Associates and joint ventures:		
LG CNS Co., Ltd.	Tmoney Co., Ltd. and two others	T-money America Inc. and one other
	Songdo U-Life LLC and two others	RECAUDO BOGOTA S.A.S.
	Ulleungdo Natural Energy Co., Ltd.	Hellas SmarTicket Societe Anonyme
	Daegu Clean Energy Co., Ltd.	
	Cloudgram Co., Ltd. (*3)	
	Korea DRD (*3)	
	Hempking (*3)	
	danbee Inc. (*9)	
Associates and joint ventures of t		
LG Electronics Inc.	Hi Plaza Inc.	LG Electronics Mexico S.A.DE C.V. and others
	Hi-M Solutec Co., Ltd.	
	HITeleservice Co., Ltd. Ace R&A Co., Ltd.	
	Hientech Co., Ltd.	
	LG Innotek Co., Ltd.	
	LG Innotek Co., Etc.  LG Innotek Alliance Fund	
	Innowith Co., Ltd.	
	Hanuri Co., Ltd.	
	ZKW Lighting Systems Korea Co.,	
	Ltd.	
LG Chem Ltd.	Haengboknuri Co., Ltd.	LG Chem America, Inc. and others
	FarmHannong Co., Ltd.	
	Ugimagkorea Co., Ltd.	
	LG Energy Solution, Ltd. (*4)	
LG Hausys, Ltd. LG Uplus Corp.	Greennuri Co., Ltd. CS Leader	LG Hausys America, Inc. and others DACOM AMERICA, INC.
LG Opius Corp.	Ain Teleservice	DACOM AMERICA, INC.
	Medialog Corp.	
	CS ONE Partner	
	With U Co., Ltd.	
	LG Hellovision Co., Ltd.	
	UPLUS HOMESERVICE (*5)	
	CV Partners Co., Ltd. (*6)	
LG Household & Health Care	Coca-Cola Beverage Co.	Beijing LG Household Chemical Co., Ltd.
Ltd.	Hankook Beverage Co., Ltd.	and other
2.0.	TheFaceShop Co., Ltd.	
	HTB Co., Ltd.	
	K&I Co., Ltd.	
	C&P Cosmetics Co., Ltd.	
	Balkeunnuri Co., Ltd.	
	Fmg Co., Ltd.	
	OBM RAP Co., Ltd.	
	LG Farouk Co., Ltd.	
	TAI GUK PHARM Co., Ltd.	
	Ulleung Mountain Chu Spring Water Development Company	
	RUCIPELLOKOREA INC.	

Parent Company (including the ultimate controlling party and its associates)	Subsidiaries, joint ventures and associates of the Parent Company (domestic) (*1)	Subsidiaries, joint ventures and associates of the Parent Company (foreign) (*1)
	MiGenstory Co. Ltd.	
a a .	LOA & J, INC.(*7)	G
GIIR Corporation	HS Ad Co., Ltd.	GIIR America Inc. and others
	L.Best Co., Ltd.	
LG Hitachi Co., Ltd.		CT WILL I I
Silicon Works Co. Ltd.	D " T I T ' I C I I I	Silicon Works Inc. and others
LG International	Dangjin Tank Terminal Co., Ltd.	LG International (America) Inc. and others
	Pantos Co., Ltd.	PANTOS LOGISTICS (CHINA) CO., LTD. and others
	Pantos Logistics Busan Co., Ltd. Helistar Air Co., Ltd. Hanul-tari Co., Ltd.	
ZKW Holding GmbH	ZKW Lighting Systems Korea. Co., Ltd.	ZKW Group GmbH. and others.
ZKW Austria Immobilien		ZKW Austria Immobilien GmbH
Holding GmbH		
Joint Ventures of parent companies	s:	
LG MMA Corporation		
Conglomerate of many companies	(*10):	
LG Display Co., Ltd.	Nanumnuri Co., Ltd.	LG Display Nanjing Co., Ltd. and others
Sal de Vida Korea Corp.		
LG TOSTEM BM Co., Ltd.		
SEETEC Co., Ltd.		
Clean Soul Ltd.		
DACOM Crossing		
Robostar Co., Ltd.	Robomedi Co., Ltd.	Robostar (Shanghai) Co., Ltd.

- (\*1) Joint ventures of associates are excluded.
- (\*2) Direct shareholding of the relationship between corporate subsidiaries is included.
- (\*3) Reclassification to the related entity due to the acquisition of stock during the current year.
- (\*4) Reclassification to the subsidiaries of LG Chem Ltd. due to the acquisition of stock during the current year.
- (\*5) Reclassification to the subsidiaries of LG Uplus Corp. Newly established during the current year.
- (\*6) Reclassification to the subsidiaries of LG Hellovision Co., Ltd. due to the acquisition of stock during the current year.
- (\*7) Reclassification to the subsidiaries of LG Household & Health Care Ltd. due to the acquisition of stock during the current year.
- (\*8) The settlement was decided at the general shareholders' meeting during the prior year, and the liquidation process is in progress.
- (\*9) Reclassification to the related entity of LG CNS Co., Ltd. due to the redemption conversion, preferred stock conversion to common stock during the current year.
- (\*10) These companies are not related parties as defined in paragraph 9 of K-IFRS 1024. However, the companies are designated by the Fair Trade Commission as a related party, in accordance with the resolution of the Securities and Futures Commission, in accordance with the substantive relationship stipulated in paragraph 10 of K-IFRS 1024.

#### 2) December 31, 2019

Parent Company (including the ultimate controlling party and its associates)	Subsidiaries, joint ventures and associates of the Parent Company (domestic) (*1)	Subsidiaries, joint ventures and associates of the Parent Company (foreign) (*1)
The ultimate controlling party and	d its subsidiaries:	
LG Corp.		LG Holdings Japan Co., Ltd. (*2)
	S&I Corporation Co., Ltd. and six	
	others (*2)	S&I NANJING Co., Ltd. and nine others
	LG Management Development	
	Institute	
	LG Sports Ltd.	
Associates and joint ventures:		

Parent Company (including the ultimate controlling party and its associates)	Subsidiaries, joint ventures and associates of the Parent Company (domestic) (*1)	Subsidiaries, joint ventures and associates of the Parent Company (foreign) (*1)
LG CNS Co., Ltd.	Tmoney Co., Ltd. and two others (*3) Songdo U-Life LLC and two others Ulleungdo Natural Energy Co., Ltd. Daegu Clean Energy Co., Ltd.	T-money America Inc. and one other RECAUDO BOGOTA S.A.S. Hellas SmarTicket Societe Anonyme KEPCO-LG CNS Mangilao Holdings LLC and four others (*5)
Associates and joint ventures of th LG Electronics Inc.	Hi Plaza Inc. Hi-M Solutec Co., Ltd.	LG Electronics Mexico S.A.DE C.V. and others
	HITeleservice Co., Ltd. Ace R&A Co., Ltd. Hientech Co., Ltd. LG Innotek Co., Ltd. LG Innotek Alliance Fund Innowith Co., Ltd. Hanuri Co., Ltd. ZKW Lighting Systems Korea Co.,	
LG Chem Ltd.	Ltd. (*4) Haengboknuri Co., Ltd. FarmHannong Co., Ltd. Ugimagkorea Co., Ltd.	LG Chem America, Inc. and others
LG Hausys, Ltd. LG Uplus Corp.	Greennuri Co., Ltd. CS Leader Ain Teleservice Medialog Corp.	LG Hausys America, Inc. and others DACOM AMERICA, INC.
	CS ONE Partner With U Co., Ltd. LG Hellovision Co., Ltd. (*6) LG Hellovision Hana Broadcasting	
LG Household & Health Care Ltd.	Co., Ltd. (*6), (*14) Coca-Cola Beverage Co. Hankook Beverage Co., Ltd. TheFaceShop Co., Ltd. (*15) HTB Co., Ltd. K&I Co., Ltd. (*15) C&P Cosmetics Co., Ltd. (*15) Balkeunnuri Co., Ltd.	Beijing LG Household Chemical Co., Ltd. and other
	Fmg Co., Ltd. OBM RAP Co., Ltd. (*7) LG Farouk Co., Ltd. TAI GUK PHARM Co., Ltd. JS Pharmaceutical Co., Ltd. (*7) Ulleung Mountain Chu Spring Water Development Company (*4) RUCIPELLOKOREA INC. (*8)	
GIIR Corporation	MiGenstory Co.Ltd. (*9) HS Ad Co., Ltd. L.Best Co., Ltd.	GIIR America Inc. and others
LG Hitachi Co., Ltd.		
Silicon Works Co. Ltd. LG International	Dangjin Tank Terminal Co., Ltd. Pantos Co., Ltd.	Silicon Works Inc. and others LG International (America) Inc. and others PANTOS LOGISTICS (CHINA) CO., LTD. and others
	Pantos Logistics Busan Co., Ltd. Helistar Air Co., Ltd. Hanul-tari Co., Ltd.	
ZKW Holding GmbH	ZKW Lighting Systems Korea. Co., Ltd.	ZKW Group GmbH. and others.
ZKW Austria Immobilien Holding GmbH (*10) Joint Ventures of parent companie LG MMA Corporation Conglomerate of many companies		ZKW Austria Immobilien GmbH (*10)

Parent Company (including the ultimate controlling party and its associates) Subsidiaries, joint ventures and associates of the Parent Company (domestic) (\*1) Subsidiaries, joint ventures and associates of the Parent Company (foreign) (\*1)

LG Display Nanjing Co., Ltd. and others

LG Display Co., Ltd.

Sal de Vida Korea Corp.(\*12)

LG TOSTEM BM Co., Ltd.(\*13)

SEETEC Co., Ltd.

Clean Soul Ltd.

DACOM Crossing

Robostar Co., Ltd. Robomedi Co., Ltd.

Robostar (Shanghai) Co., Ltd.

- (\*1) Joint ventures of associates are excluded.
- (\*2) Direct shareholding of the relationship between corporate subsidiaries is included.

Nanumnuri Co., Ltd.

- (\*3) The company name had been changed (formerly Korea Smart Card Co., Ltd.).
- (\*4) Newly established during the prior year.
- (\*5) Sold during the current year.
- (\*6) Reclassification to the subsidiaries of LG Uplus Corp. due to the acquisition of stock during the prior year.
- (\*7) It was absorbed into TAI GUK PHARM Co., Ltd., a subsidiary of LG Household & Health Care.
- (\*8) Reclassification to the subsidiaries of LG Household & Health Care due to acquisition of stock during the prior year.
- (\*9) It was absorbed into LG Household & Health Care during the current year.
- (\*10) MGIV GmbH, Mommert Immobilien GmbH had changed its name to ZKW Austria Immobilien Holding GmbHd, ZKW Austria Immobilien GmbH during the prior year.
- (\*11) Reclassification to the related entity due to the disposal of stock during the prior year.
- (\*12) During the current year, LG Corporation has been excluded from related party due to the disposal of stock.
- (\*13) LG Corporation has been excluded from related party due to liquidation during the current year.
- (\*14) LG Hellovision Hana Broadcasting changed its name to Hana Broadcasting and absorbed into LG Household & Health Care.
- (\*15) It was absorbed into LG Household & Health Care during the current year.
- (\*16) These companies are not related parties as defined in paragraph 9 of K-IFRS 1024. However, the companies are designated by the Fair Trade Commission as a related party, in accordance with the resolution of the Securities and Futures Commission, in accordance with the substantive relationship stipulated in paragraph 10 of K-IFRS 1024.
- (2) Transactions with related parties for the years ended December 31, 2020 and 2019, are as follows (Unit: Korea Won in millions):

	Year ended December 31, 2020					
	Acquisitions					
	of property,					
	Reve	enue and	plant and		Other	
	0	thers	equipment		purchase	
The ultimate controlling party and its subsidiaries:						
LG Corp.	₩	5,668	₩	-	₩	13,354
S&I Corp. (*1)(*2)		61,748		75		31,792
LG Sports Ltd.		1,773		-		40
LG Management Development Institute		8,814		-		5,063
LG Holdings Japan Co., Ltd.				_		348
Subtotal	₩	78,003	₩	75	₩	50,597
Associates:						
Tmoney Co.,Ltd.		23,067		-		784
Hellas SmarTicket Societe Anonyme		1,325		-		-
Cloudgram Co., Ltd.						531
Korea DRD		1,812		-		1,729
Hempking						4
Subtotal		26,204				3,048

	Year ended December 31, 2020				
	Acquisitions				
		of property,			
	Revenue and	plant and	Other		
	others	equipment	purchase		
Associates of the ultimate controlling party and its su	bsidiaries:				
LG Chem Ltd. (*1)	510,122	243	12,894		
LG Household & Health Care Ltd. (*1)	45,814	-	3,817		
LG Hausys, Ltd. (*1)	29,105	-	93		
LG Electronics Inc. (*1)	744,055	101	135,045		
GIIR Corporation (*1)	7,286	-	558		
LG Uplus Corp. (*1)	349,921	-	22,457		
LG Hitachi Co., Ltd.	104	-	1,329		
Silicon Works Co. Ltd.	6,123	-	-		
LG Fuel Cell Systems Inc. (*3)	-	-	-		
LG Fuel Cell Systems Korea Co. Ltd. (*3)	-	-	-		
LG International Corp. (*1)	45,247	-	760		
Subtotal	1,737,777	345	176,953		
Joint ventures of parent companies		_			
LG MMA Co., Ltd.	5,840	-	-		
Subtotal	5,840				
Conglomerate of many companies:					
LG Display Co., Ltd. (*1)	202,222	-	254		
LG TOSTEM BM Co., Ltd. (*4)	10	-	_		
Subtotal	202,232		254		
Total	₩2,050,056	₩ 419	₩ 230,852		

	Year ended December 31, 2019					
	Acquisitions					
	of property,					
	Reve	nue and	plant and		Other	
	ot	hers	equipn	nent	pu	rchase
The ultimate controlling party and its subsidiaries:						
LG Corp.	₩	3,770	₩	-	₩	12,628
S&I Corp. (*1)(*2)		57,654		53		23,964
LG Sports Ltd.		1,245		-		40
LG Management Development Institute		7,284		-		6,415
LG Holdings Japan Co., Ltd.		_				332
Subtotal		69,953		53		43,379
Associates:						
Tmoney Co., Ltd.		24,952		-		664
Hellas SmarTicket Societe Anonyme		473		-		-
Cloudgram Co., Ltd.		-		-		-
Korea DRD		-		-		-
Hempking		-		-		-
Subtotal		25,425				664
Associates of the ultimate controlling party and its sul	bsidiari	ies:				
LG Chem Ltd. (*1)	4	434,840		448		17,811
LG Household & Health Care Ltd. (*1)		32,317		-		3,848
LG Hausys, Ltd. (*1)		27,085		-		191
LG Electronics Inc. (*1)	(	566,187		5		142,690
GIIR Corporation (*1)		4,908		-		634
LG Uplus Corp. (*1)	3	375,724		-		25,901
LG Hitachi Co., Ltd.		176		-		960

	Year ended December 31, 2019				
	Acquisitions				
		of property,			
	Revenue and	plant and	Other		
	others	equipment	purchase		
Silicon Works Co. Ltd.	6,980	-	-		
LG Fuel Cell Systems Inc. (*3)	13	-	-		
LG Fuel Cell Systems Korea Co. Ltd. (*3)	1	-	-		
LG International Corp. (*1)	38,523		704		
Subtotal	1,586,754	453	192,739		
Joint ventures of parent companies					
LG MMA Co., Ltd.	5,249				
Subtotal	5,249				
Conglomerate of many companies:					
LG Display Co., Ltd. (*1)	253,056	-	20		
LG TOSTEM BM Co., Ltd. (*4)	29				
Subtotal	253,085		20		
Total	₩1,940,466	₩ 506	₩ 236,802		

- (\*1) Transactions with its subsidiaries are included.
- (\*2) Transactions with its subsidiaries are included.
- (\*3) The details of the transaction were excluded from the related parties due to the disposal/ liquidation of stock during the prior year, and the details of the transaction were before the exclusion.
- (\*4) The details of the transaction were excluded from the related parties due to the disposal/liquidation of stock during the current year, and the details of the transaction were before the exclusion.

(3) Outstanding receivables and payables from transactions with related parties as of December 31, 2020 and 2019, are as follows (Unit: Korea won in millions):

	December 31, 2020				
	Accounts receivable		Accounts payables		
	and others (*1)	Loans	and others (*2)		
The ultimate controlling party and its					
subsidiaries:					
LG Corp.	5,286	₩	- 198		
S&I Corp. (*3,4)	11,180		- 2,192		
LG Sports Ltd.	374				
LG Management Development Institute	7,180		- 327		
LG Holdings Japan Co., Ltd.	332				
Subtotal	24,352		- 2,717		
Associates:	2,820		139		
Tmoney Co., Ltd.			-		
RECAUDO BOGOTA S.A.S (*5)	29,058				
Hellas SmarTicket Societe Anonyme	62				
KEPCO-LGCNS Mangilao Holdings LLC (*7)	-		-		
Korea DRD	32		-		
Hempking	946		- 951		
Subtotal	32,918		- 1,090		
Associates of the ultimate controlling party and i	ts subsidiaries:				
LG Chem Ltd. (*3)	164,636		- 7,048		
LG Household & Health Care Ltd. (*3)	4,171		- 521		
LG Hausys, Ltd. (*3)	6,259		-		
LG Electronics Inc. (*3,6)	286,480		- 29,890		
GIIR Corporation (*3)	3,198		- 124		
LG Uplus Corp. (*3)	108,240		- 2,079		

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LG Hitachi Co., Ltd.		91		-	170
Silicon Works Co. Ltd.		709		-	-
LG International Corp. (*3)		16,037		-	100
Subtotal		589,821		-	39,931
Joint ventures of parent companies					_
LG MMA Co., Ltd.		1,234			_
Subtotal		1,234			
Conglomerate of many companies:					
LG Display Co., Ltd.		93,477			253
Subtotal		93,477			253
Total	₩	741,802	₩	- ₩	43,991

	December 31, 2019			
	Accounts	receivable		Accounts payables
	and ot	hers (*1)	Loans	and others (*2)
The ultimate controlling party and its				
subsidiaries:				
LG Corp.	₩	4,917	₩ -	₩ 448
S&I Corp. (*3,4)		28,508	-	2,089
LG Sports Ltd.		83	-	-
LG Management Development Institute		4,286	-	333
LG Holdings Japan Co., Ltd.		366		<u> </u>
Subtotal		38,160	-	2,870
Associates:				
Tmoney Co., Ltd.		2,737	-	155
RECAUDO BOGOTA S.A.S (*5)		18,317	-	-
Hellas SmarTicket Societe Anonyme		-	-	
KEPCO-LGCNS Mangilao Holdings LLC (*7)		93	7,864	
Korea DRD		-	-	
Hempking				
Subtotal		21,147	7,864	155
Associates of the ultimate controlling party and it	s subsidia	ries:		
LG Chem Ltd. (*3)		164,564	-	7,649
LG Household & Health Care Ltd. (*3)		3,992	-	412
LG Hausys, Ltd. (*3)		6,967	-	31
LG Electronics Inc. (*3,6)		198,175	-	21,842
GIIR Corporation (*3)		2,587	-	105
LG Uplus Corp. (*3)		133,365	-	766
LG Hitachi Co., Ltd.		92	-	139
Silicon Works Co. Ltd.		955	-	-
LG International Corp. (*3)		9,893		273
Subtotal		520,590		31,217
Joint ventures of parent companies				
LG MMA Co., Ltd.		490		
Subtotal		490		
Conglomerate of many companies:				
LG Display Co., Ltd.		75,850		2
Subtotal		75,850		2
Total	₩	656,237	₩ 7,864	₩ 34,244

<sup>(\*1)</sup> Receivables from related parties are trade receivables, other receivables and prepaid expenses.

<sup>(\*2)</sup> Payables to related parties are trade payables and other payables.

<sup>(\*3)</sup> Transactions with subsidiaries are included.

<sup>(\*4)</sup> Transactions with related entity are included.

- (\*5) Bad debt allowances are recorded at ₩4,585,940 thousand and ₩13,857,580 thousand of receivables as of December 31, 2020 and 2019, respectively.
- (\*6) Bad debt allowances are recorded at  $\mbox{$\mathbb{W}$}248,067$  thousand and  $\mbox{$\mathbb{W}$}291,448$  thousand of receivables as of December 31, 2020 and 2019, respectively.
- (\*7) Excluded from the related parties due to the disposal of its stock, and bad debt allowances are recorded at \$1,043,253 thousand as of December 31, 2019.
- (4) Details of payment guarantee provided to a special person related for the year ended December 31, 2020, are as follows (Unit: Korean won in thousands):

	Details	Guarantee office	Limit amount	Guarantee period
Hellas SmarTicket Societe	Daymant quarantaa	Export-Import	EUR 28.000.000	2016-03-04-
Anonyme	Payment guarantee	Bank Of KOREA	EUR 28,000,000	2027-03-04

(5) The compensation and benefits for the Group's key management (registered executives, including non-permanent and non-registered executives) who have significant control and responsibility of planning, operating and controlling the activities of the Group for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Y	ear ended	Year ended		
	Decer	mber 31, 2020	December 31, 2019		
Short-term employee benefits	₩	22,666,179	₩	22,333,037	
Severance benefits		2,434,632		2,394,149	
Other long-term employee payroll		4,509		4,640	
Total	₩	25,105,320	₩	24,731,826	

### 31. <u>FUNDING ARRANGEMENTS AND PLEDGING:</u>

(1) Financing agreements as of December 31, 2020, are as follows (Unit: Korean won and U.S. dollars in thousands):

		Credit limit				
			In Korean			
Category(*)	Financial institution	In USD	won			
Comprehensive import and export	Woori Bank and others	USD 8,000	₩ -			
Forward exchange	Woori Bank and others	-	5,000,000			
Overdraft	Kookmin Bank and others	USD 85,300	-			
Others	KEB Hana Bank and others	-	114,600,000			

- (\*) Credit limit of comprehensive import and export referred above includes identical agreement to individual contracts.
- (2) Restricted financial assets as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands:

	De	December 31, 2020		ecember 31, 2019	Note
Long-term other receivable	₩	12,500	₩	12,500	
					Subcontract win-win support fund,
Financial institution					Chungcheongbukdo creating
deposits		12,000,000		12,500,000	financial funds
Total	₩	12,012,500	₩	12,512,500	

## (3) Details of pledging

### 1) Performance guarantee

The Group provided a performance guarantee of contracts and warranties to customers by taking guarantee insurance as of December 31, 2020, as follows (Unit: Korean won in thousands):

	Amount of guarantee		Insurance company
	₩	84,109,682	Seoul Guarantee Insurance Company
		403,658,823	Korea Software Financial Cooperative
Guarantee of contract		65,274	Engineering Financial Cooperative
warranties, etc.			Information & Communication
		2,720,565	Financial Cooperative
		68,876,606	Shinhan Bank and others
Total	₩	559,430,950	_

## 2) Collateral

	Details
Korea Software Financial Cooperative	$\ensuremath{\mathbb{W}}$ 1,341 million of capital stock investment provided a combination as mortgage
Engineering Financial Cooperative	₩779 million of capital stock investment provided a combination as mortgage

## **32. <u>LEASES:</u>**

- (1) The Group as lessee
- 1) The carrying amount of the right-to-use assets at the end of the current term and at the beginning of the current term is as follows (Unit: Korean won in thousands):

	December 31, 2020							
	Buildings	Vehicles	Furniture and fixtures	Others	Total			
Acquisition cost	₩ 73,345,359	₩ 2,905,712	₩ 1,909,948	₩ 2,748,893	₩ 80,909,912			
Accumulated								
depreciation	(18,734,902)	(1,097,912)	(1,564,596)	(1,646,852)	(23,044,262)			
Total	₩ 54,610,457	₩ 1,807,800	₩ 345,352	₩ 1,102,041	₩ 57,865,650			
	December 31, 2019							
			Furniture and					
	Buildings	Vehicles	fixtures	Others	Total			
Acquisition cost	₩ 68,101,893	₩ 2,084,575	₩ 1,879,201	₩ 2,814,536	₩ 74,880,205			
Accumulated								
depreciation	(9,279,005)	(703,058)	(777,600)	(729,174)	(11,488,837)			
Total	₩ 58,822,888	₩ 1,381,517	₩ 1,101,601	₩ 2,085,362	₩ 63,391,368			

2) Changes in the book value of the right-to-use assets on December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	December 31, 2020								
		Buildings	Vehicles	Furnitu	ire and fixtures		Others		Total
Beginning balance	₩	58,822,888	₩ 1,381,517	₩	1,101,601	₩	2,085,362	₩	63,391,368
Additional(renew al) contracts Depreciation of		5,179,186	1,613,805		30,747		-		6,823,738
right-to-use assets Termination of		(10,535,382)	(964,791)		(786,995)		(972,337)		(13,259,505)
contracts		(155,638)	(197,286)		-		-		(352,924)
Others		1,299,403	(25,445)		(1)		(10,984)		1,262,973
Ending balance	₩	54,610,457	₩ 1,807,800	₩	345,352	₩	1,102,041	₩	57,865,650

	December 31, 2019								
		Buildings	Vehicles	Furnit	ure and fixtures		Others		Total
Beginning balance	₩	62,253,392	₩ 1,441,802	₩	1,879,201	₩	-	₩	65,574,395
Additional(renew al) contracts Depreciation of right-to-use		5,855,191	784,060		-		2,814,536		9,453,787
assets Termination of		(9,229,192)	(752,871)		(777,600)		(729,174)		(11,488,837)
contracts		(56,503)	(91,474)		-		-		(147,977)
Ending balance	₩	58,822,888	₩ 1,381,517	₩	1,101,601	₩	2,085,362	₩	63,391,368

The group has operating lease contracts for buildings, furniture and fixtures, vehicles, etc. The average lease term is 15.4 years

Approximately 2.0% of leases on buildings, machinery and tools and equipment have expired during the current term. Expired contracts have been replaced with new leases on which the underlying asset has been identified. The carrying amount of the added license asset during the current term is  $\[mathbb{W}6,823,738\]$  thousands.

3) The amounts recognized as profit or loss in 2020 are as follows (Unit: Korean won in thousands):

		Amounts
Depreciation of right-to-use assets	₩	13,259,505
Interest expense of lease liabilities		1,390,130
Expenses related to short-term leases		2,649,066
Expenses related to leases of low-value assets		359,425
Variable lease payments not included in the lease		39,659
liability measurement (*)		

(\*) The consolidation entity leases some of the leases as fixtures (complexes, etc.), and the lease fees for the lease are variable lease fees depending on the usage. The consolidation entity entered into a contract with these variable lease conditions to reduce the fixed cost. The proportion of the total rent of the consolidation entity is approximately 0.24%.

The remaining lease agreement amount of the short-term lease as of the end of the current year is KRW 986,848 thousands, and the total cash outflow due to the lease is KRW 16,366,598 thousands. The depreciation cost of a foreign subsidiary of the depreciation cost of right-of-use assets is calculated as the average exchange rate.

4) The details of the liquidity classification of lease liabilities as of December 31, 2020, are as follows (Unit: Korean won in thousands):

	Decemb	er 31, 2020	December 31, 2019		
Current liabilities	₩	12,710,686	₩	12,131,342	
Non-current liabilities		44,143,195		49,334,170	
Total	₩	56,853,881	₩	61,465,512	

5) The details of lease liabilities as of December 31, 2020, are as follows:

	December 31, 2020		December 31, 2019		
Less than 1 year	₩	13,006,553	₩	12,457,324	
1-5 years		27,722,593		27,983,486	
More than 5 years		21,472,075		27,518,697	
Total	₩	62,201,221	₩	67,959,507	

### (2) The Group as lessor

1) The future lease payment plans relating to the Group's lease contracts as of the end of the current year and the prior year are as follows (Unit: Korean won in thousands):

			December	r 31, 2020		
	I	ess than	1 5		T	. 4 . 1
		1 year	1-5	years	10	otal
LG CHEM LTD	₩	1,205,961	₩	-	₩	1,205,961
CJ E&M Co., Ltd. and						
Others		748,980		714,884		1,463,864
			Decembe	er 31, 2019		
	Less than 1 year		1-5 years		Total	
LG CHEM LTD	₩	1,205,961	₩	-	₩	1,205,961
CJ E&M Co., Ltd. and Others		990,680		1,363,455		2,354,135

2) The lease income recognized by the group in relation to the lease agreement for the year of 2020 and 2019 is \$2,199,537 thousand and \$2,140,146 thousand, respectively.

## 33. PENDING LITIGATIONS AND DISPUTES:

Pending litigations and disputes as of December 31, 2020, are as follows (Unit: Korean won in thousands and CNY):

Plaintiff Defendant		Amount of lawsuit	Description
KEB Hana Bank	The Group and others	₩ 567,280	Claims for unfair joint activities
Republic of Korea	The Group and others	5,000,000	Litigation with the issue of transfer of ownership registration
The Group	Asan Social Welfare Foundation	10,000,000	Request for unpaid Asan hospital service payment
Asan Social Welfare Foundation	The Group	37,933,444	Request for compensation for loss
National Federation of Fisheries Cooperatives	The Group and others	15,170,000	Damage claims
The Group	Republic of Korea	50,000	Claims for unfair joint activities
The Group	Republic of Korea	10,847,842	Request for payment of KCTC reduction.
The Group	SsangYong Information and Communication Corp	5,000,000	KCTC Ssangyong's late compensation claim
The Group	MG Non-Life Insurance CO., LTD.	8,013,718	Claim for insurance
The Group	Hwasin Smart Education Science & Technology Limited	CNY 1,541,100	Request for unpaid service payments

#### 34. RISK MANAGEMENT:

#### (1) Capital risk management

The Group performs capital management to maintain the ability of providing profits to shareholders and parties in interest continuously, and to maintain optimum capital structure to reduce capital expenses. In order to maintain such optimum structure, the Group may adjust dividend payments, redeem paid-in capital to shareholders, issue stocks to reduce liability or sell assets.

The Group's capital structure consists of net liability, which is borrowings, less cash and cash equivalents and equity. The overall capital risk management policy of the Group is unchanged from prior period. In addition, items managed as capital by the Group as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Dece	December 31, 2020		ember 31, 2019
Total borrowings	₩	618,447,771	₩	544,007,085
Less: Cash and cash equivalents		(720,276,711)		(490,309,547)
Borrowings, net		(101,828,940)		53,697,538
Total equity		1,287,322,558		1,222,838,267
Debt ratio (*)		=		4.39%

(\*) The total capital loan ratio has not been calculated as the net debt is a negative amount at the end of the year.

### (2) Financial risk management

The Group is exposed to various financial risks, such as market (foreign exchange, interest rate and price), credit and liquidity, related to financial instruments. The purpose of risk management of the Group is to identify potential risks related to financial performance and reduce, eliminate and evade those risks to the degree acceptable to the Group. The Group makes use of derivative financial instruments to hedge certain risks, such as foreign exchange and interest rate. Overall, financial risk management policy of the Group is the same as the prior period.

#### 1) Foreign currency risk

The Group is exposed to foreign currency risk as it makes transactions denominated in foreign currencies. The book value of the Group's monetary assets and liabilities denominated in foreign currencies that are not the functional currency as of December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

	December	31, 2020	December 31, 2019				
	Assets	Liabilities	Liabilities Assets Li				
USD	₩ 67,392,854	₩ 62,041,296	₩ 102,665,234	₩ 65,332,524			
EUR	21,074,193	23,299,975	20,510,723	15,780,530			
JPY	705,019	2,257,494	863,732	1,367,098			
CNY	237,835	206,905	4,287,811	571,190			
Others	88,715,507	20,692,362	48,310,932	18,661,311			
Total	₩178,125,408	₩108,498,032	₩ 176,638,432	₩ 101,712,653			

The Group internally assesses the foreign currency risk from changes in exchange rates on a regular basis. The Group's sensitivity to a 10% increase and 10% decrease in Korean won (functional currency of the Group) against major foreign currencies as of December 31, 2020, is as follows (Unit: Korean won in thousands):

	December 31, 2020					
Currency		rease against n currency		10% decrease against foreign currency		
USD	₩	433,932	₩	(433,932)		
EUR		(168,714)		168,714		
JPY		(117,678)		117,678		
CNY		2,344		(2,344)		
Others		5,146,582		(5,146,582)		
Total	₩	5,296,466	₩	(5,296,466)		
		December	31, 2019			
	10% inc	rease against	10% de	crease against		
Currency	foreig	n currency	foreig	gn currency		
USD	₩	2,821,516	₩	(2,821,516)		
EUR		358,549		(358,549)		
JPY		(38,155)		38,155		
CNY		281,720		(281,720)		
Others		2,241,856		(2,241,856)		
Total	₩	5,665,486	₩	(5,665,486)		

The above sensitivity analysis is conducted for monetary assets and liabilities denominated in foreign currencies other than functional currency as of December 31, 2020.

As of December 31, 2020, the Group entered into cross-currency forward contracts to manage its foreign currency exchange rate risk related to its expected sale and purchase. The evaluation of unsettled currency forward contracts as of December 31, 2020, is as follows (Unit: Korean won in thousands):

		Valuation g	ain and loss			
		(consolidated	l statement of	Valuation gain and loss		
	Notional	inco	ome)	(consolidated statement	Fair	value
	amount	Gain	Loss	of financial position)	Assets	Liabilities
Currency forward	₩170,597,420	₩ 2,332,733	₩ 326,494	₩ -	₩ 2,578,106	₩ 326,494

### 2) Interest rate risk

The Group is exposed to interest rate risk due to its borrowings with floating interest rates.

Carrying value of assets and liabilities exposed to interest rate risk as of December 31, 2020, is as follows (Unit: Korean won in thousands):

	December 31, 2		
Borrowings	₩	21,074,304	

The Group internally assesses the interest rate risk from changes in interest rates on a regular basis. The effect of changes in interest rates of 1% to net income and net assets as of December 31, 2020, is as follows (Unit: Korean won in thousands):

	1% increase			1% decrease				
	Ne	t income	Net assets	3	Ne	et income	Net asset	S
Borrowings	₩	(148,694)	₩	-	₩	148,694	₩	-

#### 3) Price risk

The Group is exposed to price risks from equity instruments. As of December 31, 2020, fair value of equity instruments is  $\mathbb{W}1,634,949$  thousand. When all the other variables are constant and when the price of equity instrument changes by 10%, the effect on equity will be  $\mathbb{W}123,929$  thousand (after tax effect).

#### 4) Credit risk

Credit risk refers to risk of financial losses to the Group when the counterparty defaults on the obligations of the contract.

The maximum exposure to financial losses incurred by the Group from default of the other party's obligations at the end of current year is the carrying amount of each financial asset in the consolidated financial statements and the maximum amount to be paid by the Group if warranted by financial guarantees provided by the Group, regardless of the probability of the exercise, is 37,471 million (the limit on financial payment guarantees described in the 30(5)).

To minimize credit risk, the Group uses the credit rating information of independent external credit rating agencies to classify the exposure amount according to the degree of default. If the information of the credit rating agency is not available, we use official financial information to determine the ratings of the major customers and other debtors. The total exposure of the Group and the credit rating of the counterparty are continuously reviewed and the total amount of such transactions are evenly distributed to the approved accounts.

The exposure to the credit risk by major industries as of December 31, 2020, to which the Group's customers belong is as follows (Unit: Korean won in thousands):

	Manufacturin	Financial	Other	Public			Consolidation	
	g	service	service	institutions	Others	Total	adjustments	Consolidated
Financial assets								
at FVTPL	₩ -	₩ 2,578,106	₩ -	₩ -	₩ 23,873,805	₩ 26,451,911	₩	₩ 26,451,911
Financial assets								
at amortized								
cost	702,833,138	252,887,173	51,851,931	30,433,789	71,676,911	1,109,682,942	(94,345,684)	1,015,337,258
Financial assets	-							
at FVTOCI	-	-	-	-	6,644,205	6,644,205	-	6,644,205
Limit of								
payment								
guarantee		92,744,259				92,744,259	(55,273,539)	37,470,720
Total	₩702,833,138	₩ 348,209,538	₩ 51,851,931	₩ 30,433,789	₩102,194,921	₩ 1,235,523,317	₩ (149,619,223)	₩ 1,085,904,094

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### 5) Liquidity risk

The Group manages liquidity risk by establishing short-, medium- and long-term funding plan and continuously monitoring actual cash outflow and its budget to match the maturity profiles of financial assets and liabilities. Management of the Group believes that financial liability may be redeemed by cash flow arising from operating activities and financial assets.

Maturity analysis of non-derivative financial liabilities according to their remaining maturity as of December 31, 2020, is as follows (Unit: Korean won in thousands):

	W	ithin 1 year	1 y	ear-5 years	Af	ter 5 years		Total (*1)
Non-interest- bearing financial								
instruments	₩	636,530,155	₩	1,336,289	₩	-	₩	637,866,444
Lease liabilities		13,006,553		27,722,593		21,472,075		62,201,221
Floating-rate								
financial								
instrument		21,721,271		-		-		21,721,271
Fixed-interest rate								
financial								
instruments		110,629,917		420,356,400		102,979,000		633,965,317
Payment								
guarantee		37,470,720						37,470,720
	₩	819,358,616	₩	449,415,282	₩	124,451,075	₩	1,393,224,973

(\*1) The above maturity analysis is based on the book value and the earliest maturity date by which the payments should be made and includes interest and principal.

The Group manages liquidity through cash inflows from financial assets and financing arrangements with financial institutions, and the maturity of financial assets as of December 31, 2020 and 2019, is as follows (Unit: Korean won in thousands):

		December 31, 2020								
	Wi	thin 1 year	1 ye	ear–5 years	Aft	er 5 years		Total		
Financial institution										
deposits	₩	147,756,749	₩	-	₩	391,393	₩	148,148,142		
Trade and other receivables		840,137,283		20,423,673		6,628,161		867,189,117		
Investment in equity and debt										
instruments		<u>-</u> _				30,518,010		30,518,010		
	₩	987,894,032	₩	20,423,673	₩	37,537,564	₩	1,045,855,269		
				December	r 31, 201	9				
	Wi	thin 1 year	1 ye	ear-5 years	Aft	er 5 years		Total		
Financial institution										
deposits	₩	35,390,763	₩	-	₩	285,460	₩	35,676,223		
Trade and other receivables		830,981,924		28,841,686		2,914,140		862,737,750		
Investment in equity and debt instruments		-		-		20,945,283		20,945,283		

_							
<del>\\/</del>	866 312 687	₩	20 041 606	₩	24 144 883	<del>\\/</del>	010 250 256
VV	800,312,087	VV	28,841,686	VV	24,144,003	VV	919,339,230

Maturity analysis of derivative financial assets (liabilities) according to their remaining maturity as of December 31, 2020, is as follows (Unit: Korean won in thousands):

		Within 1 year	1 year–5 years	Total
Derivatives for trading:				
Foreign currency derivatives	Inflows	₩ 167,778,173	₩ -	₩ 167,778,173
(gross settlement) (*)	Outflow	(165,795,089)	-	(165,795,089)
Foreign currency derivatives	Outflow			
(net settlement)	Outilow	268,528		268,528
Total		₩ 2,251,612	₩ -	₩ 2,251,612

(\*) As the cash flows from the foreign currency derivative contracts are settled gross, the cash flows are disclosed separately.

#### (3) Estimation of fair value

The fair values of financial instruments (i.e., financial assets held for trading and available-for-sale (AFS) financial assets) traded on active markets are determined with reference to quoted market prices. The Group uses the current bid price as the quoted market price for its financial assets.

The fair values of financial instruments not traded on an active market (i.e., over-the-counter derivatives) are determined using a valuation technique. The Group uses various valuation techniques using assumptions based on current market conditions. The fair values of long-term liabilities and AFS financial liabilities are determined using prices from observable current market transactions and dealer quotes for similar instruments. Where such prices are not available, a discounted cash flow analysis or other valuation technique is performed to measure their fair values.

The fair values of trade receivables and trade payables are approximated at their carrying value, less impairment loss. The Group estimates the fair values of financial liabilities as the present value of future contractual cash flows discounted based on current market rates applied to similar financial instruments.

Financial instruments that are measured subsequent to initial recognition at fair value are grouped into Levels 1 to 3 based on the degree to which the fair value is observable, as described below.

- Level 1: Fair value measurements are derived from quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2: Fair value measurements are derived from inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (i.e., as prices) or indirectly (i.e., derived from prices).
- Level 3: Fair value measurements are derived from valuation techniques that include inputs for the asset or liability that are not based on observable market data (unobservable inputs).

1) Financial instruments that are measured subsequent to initial recognition at fair value by fair value hierarchy levels as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	December 31, 2020									
	Carr	ying amount		Level 1		Level 2		Level 3		Total
Financial assets:										
Derivatives for trading	₩	2,578,106	₩	-	₩	2,578,106	₩	-	₩	2,578,106
Equity investments		23,873,805		-		-		23,873,805		23,873,805
Financial assets at FVTPL		26,451,911		-		2,578,106		23,873,805		26,451,911
Marketable equity securities		1,634,949		1,634,949		-		-		1,634,949
Unmarketable equity securities		5,009,256		-		-		5,009,256		5,009,256
Financial assets at FVTOCI		6,644,205		1,634,949		_		5,009,256		6,644,205
Total		33,096,116		1,634,949		2,578,106		28,883,061		33,096,116
Financial liabilities:										
Derivatives for trading		326,494		-		326,494		-		326,494
Financial liabilities at FVTPL		326,494		-		326,494		_		326,494
Total	₩	326,494	₩	-	₩	326,494	₩	-	₩	326,494
						nber 31, 2019				
	Carı	ying amount		Level 1		Level 2		Level 3		Total
Financial assets:										
Derivatives for trading	₩	2,249,593	₩	-	₩	2,249,593	₩	<del>-</del>	₩	2,249,593
Equity investments		11,021,048				<del>-</del>		11,021,048		11,021,048
Financial assets at FVTPL		13,270,641				2,249,593		11,021,048		13,270,641
Marketable equity securities		1,794,048		1,794,048		-		-		1,794,048
Unmarketable equity securities		0 120 107		_		_		8,130,187		8,130,187
• •		8,130,187						0,100,107		
Financial assets at FVTOCI		9,924,235		1,794,048		<u> </u>		8,130,187		9,924,235
• •				1,794,048 1,794,048		2,249,593				9,924,235 23,194,876
Financial assets at FVTOCI		9,924,235				2,249,593		8,130,187		
Financial assets at FVTOCI  Total		9,924,235				2,249,593		8,130,187		
Financial assets at FVTOCI Total Financial liabilities:		9,924,235 23,194,876						8,130,187		23,194,876

There is no significant transfer between Level 1 and Level 2 during the current period and the prior period.

2) Valuation method and input variables of financial instruments, which are included in Level 2 of the financial instruments, that are measured at fair value in the consolidated statements of financial position are as follows (Unit: Korean won in thousands):

	Fair value		Valuation technique	Input factor
Financial assets:				
Derivative instrument for trading	₩	2,578,106	Discounted cash flow	Forward exchange rate
Total	₩	2,578,106		
Financial liabilities:		<u> </u>		
Derivative instrument for trading	₩	326,494	Discounted cash flow	Forward exchange rate
Total	₩	326,494		

3) The levels of the fair value of financial instruments without subsequent measurement at fair value as of December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	December 31, 2020									
	Во	ook value		Level 1		Level 2		Level 3		Total
Financial assets:										
Financial institution deposits	₩	148,148,142	₩	-	₩	-	₩	148,148,142	₩	148,148,142
Trade receivables (*)	;	837,964,202		-		-		837,964,202		837,964,202
Loans (*)		5,177,105		-		-		5,177,105		5,177,105
Other accounts receivable (*)		11,347,020		-		-		11,347,020		11,347,020
Accrued income (*)		2,337,678		-		-		2,337,678		2,337,678
Deposits (*)		10,363,112		-		-		10,363,112		10,363,112
Total	₩ 1,	015,337,259	₩	-	₩	-	₩	1,015,337,259	₩ 1	1,015,337,259
Financial liabilities:										
Trade payables (*)	₩	473,471,390	₩	-	Ŧ	₩ -	₩	473,471,390	₩	473,471,390
Borrowings		29,665,108		-		-		29,665,108		29,665,108
Other accounts payable (*)		35,535,226		-		-		35,535,226		35,535,226
Accrued expenses (*)		127,608,453		-		-		127,608,453		127,608,453
Dividend payables (*)		4,018		-		-		4,018		4,018
Deposits received		1,247,359		-		1,247,359		-		1,247,359
Long-term borrowings	:	588,782,663		-		596,597,046		-		596,597,046
Lease liabilities		56,853,881		-		-		56,853,881		56,853,881
Total	₩ 1,	313,168,098	₩	-	₩	597,844,405	₩	723,138,076	₩ 1	1,320,982,481

(\*) Short-term receivables and short-term payment obligations that have been shown as Level 3, where the discount effect is not important, are measured at the original amount.

	December 31, 2019								
	I	Book value	Level 1		Level 2		Level 3		Total
Financial assets:									
Financial institution deposits	₩	35,676,224	₩	-	₩ -	₩	35,676,224	₩	35,676,224
Trade receivables (*)		830,583,481		-	-		830,583,481		830,583,481
Loans (*)		10,415,906		-	-		10,415,906		10,415,906
Other accounts receivable (*)		11,113,468		-	-		11,113,468		11,113,468
Accrued income (*)		1,169,010		-	-		1,169,010		1,169,010
Deposits (*)		9,455,885		-	-		9,455,885		9,455,885
Total	₩	898,413,974	₩		₩ -	₩	898,413,974	₩	898,413,974
Financial liabilities:									
Trade payables (*)	₩	348,748,377	₩	-	₩ -	₩	348,748,377	₩	348,748,377
Borrowings		24,620,328		-	-		24,620,328		24,620,328
Other accounts payable (*)		36,824,511		-	-		36,824,511		36,824,511
Accrued expenses (*)		120,966,164		-	-		120,966,164		120,966,164
Dividend payables (*)		1,302		-	-		1,302		1,302
Deposits received		1,320,359		-	1,320,359		-		1,320,359
Long-term borrowings		519,386,757		-	525,126,349		-		525,126,349
Lease liabilities		61,465,512					61,465,512		61,465,512
Total	₩	1,113,333,310	₩	-	₩ 526,446,708	₩	592,626,194	₩ ]	1,119,072,902

<sup>(\*)</sup> Short-term receivables and short-term payment obligations that have been shown as Level 3, where the discount effect is not important, are measured at the original amount.

4) Changes in Level 3 financial assets for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Year ended December 31, 2020								
	Beginning balance	Net	Comprehensiv e loss	Purchases	Disposals	Replacement	Others	Ending balance	
Financial assets:									
Investment	₩11,021,048	₩ (50,258)	₩ -	₩ 13,741,409	₩(3,753,517)	₩ 3,420,400	₩ (505,277)	₩23,873,805	
Non-marketable				885,343	(248,772)	(3,420,400)	(335,874)	5,009,256	
equity securities	8,130,187		(1,228)						
Total	₩19,151,235	₩ (50,258)	₩ (1,228)	₩ 14,626,752	₩(4,002,289)	₩ -	₩ (841,151)	₩28,883,061	
				Year ended	December	31, 2019			
	Beginning	N	Comprehensiv				0.1	Ending	
	Beginning balance	Net income		Year ended  Purchases		31, 2019  Replacement	Others	Ending balance	
Financial assets: Investment		Net income  W 211,271	Comprehensiv		Disposals			•	
	balance		Comprehensiv e loss	Purchases	Disposals	Replacement		balance	
Investment	balance  ₩ 7,935,198		Comprehensiv e loss	Purchases  ₩ 2,699,579	Disposals  W -	Replacement		balance	
Investment Public	balance  ₩ 7,935,198		Comprehensiv e loss	Purchases  ₩ 2,699,579	Disposals  W - (1,255)	Replacement W 175,000		balance	

Total recognized gains and losses in other comprehensive income (loss) are related to non-listed shares that are currently held, and it will be reflected in the change in unrealized gains on financial assets at FVTOCI (see Note 21).

5) A description of the valuation techniques and the inputs used in the fair value measurement of financial instruments classified as Level 2 and Level 3 is as follows:

#### - Currency forward and interest rate swap

In principle, the fair value of currency forward was measured based on forward currency rates whose period is coincident with the residual period of the currency forward and that are advertised in the market at the end of the reporting period. If forward currency rates whose period is coincident with the residual period are not advertised in the market, the fair value of currency forward was measured by estimating the forward currency rates whose period is similar to the residual period of the currency forward. Estimation of the forward currency was performed using interpolation to advertised periodical forward currency rates. Discount rates used to measure the fair value of currency forward were determined based on yield curve from yields advertised in the market.

Discount rates and forward rates used to measure the fair value of interest rate swaps were determined based on the applicable yield curves derived from interest rates that are advertised in the market at the end of the reporting period. The fair value of interest rate swaps measured on the amount of money that is discounted at an appropriate discount rate to future cash flows of interest rate swaps was estimated based on the forward rate that is obtained by the method described above.

As discussed above, the input variables used to measure the fair value of the currency forward are derived from the forward exchange rate observable in the market at the end of the reporting period. Therefore, the Group measures the fair value of the currency forward at Level 2 in the fair value hierarchy Classified.

#### - Debenture

Fair value of corporate bonds is measured using the discounted cash flow method. The discount rate used for cash flow discounts was determined based on the swap rate and credit spread announced in the market for bonds with

similar creditworthiness and maturities to fair value corporate bonds. Since the discount rate, which is the input variable that significantly affects the fair value of corporate bonds, is derived based on market observable information, the Group classifies fair value measurements of corporate bonds as Level 2 in the fair value hierarchy.

- Unlisted stocks and unlisted stock-linked securities

The fair value of unlisted stocks and unlisted equity securities is measured using the cash flow discount model. In order to estimate the future cash flow, we use the assumptions and estimates of sales growth rate, pretax profit margin and weighted-average cost of capital. Some assumptions not based on price or percentage are used. The weighted-average cost of capital used to discount future cash flows is calculated using the Capital Asset Pricing Model. The Group has classified the fair value measurements of unlisted stocks at Level 3 in the fair value hierarchy based on the assumption that the effect of the above assumptions and estimates on the fair value of unlisted stocks is significant.

6) A description of the valuation processes in the fair value measurement for Level 2 and Level 3 that the Group is carrying out is as follows:

Undesirable inputs that are used to estimate Level 3 fair value measurement are derived in a manner that is described below.

- Stock price volatility and stock price correlation used in measuring the fair value of financial instruments associated with stocks, such as investment convertible bonds, stock-linked securities and conversion rights consideration, are estimated based on the stock price changes observed in the market for a certain period before the end of the reporting period
- Pretax profit margin and sales growth rate, which are used to measure the fair value of non-listed shares, are estimated based on the average value of pretax operating margin and sales growth rate of comparable listed companies.
- Weighted-average cost of capital discount rate that is used to measure the fair value of non-listed shares is estimated by the weighted-average, after-tax, outside capital cost; capital cost estimates of the share value beta is reflected for the purpose of the issuer of the shares; and capital structure based on the equity beta of comparable public companies has been derived based on the capital asset pricing model.
- 7) There is no significant change in business and economic environment affecting the fair value of the financial assets and liabilities during the current year.

#### 35. DISPOSAL OF INVESTMENTS IN SUBSIDIARY:

The Group sold the share of its subsidiary Korea Elecom Co., Ltd. and liquidated UCESS PHILIPPINES, INC. during the prior year.

(1) During the prior year, fair value of disposal proceeds is as follows (Unit: Korean won in thousands):

December 31, 2019
Korea Elecom Co., Ltd.

Consideration received as cash and cash equivalents

W 700,000

(2) Carrying amounts of the subsidiary's assets and liabilities on the day when control is lost is as follows (Unit: Korean won in thousands):

	December 31, 2019			
	Korea Elecom Co., Ltd			
Current assets:	₩	4,110,643		
Cash and cash equivalents		2,712,661		
Other current financial assets		595,434		
Other current assets		298,929		
Inventories		505,619		
Non-current assets:		2,906,703		
Property, plant and equipment and				
intangible assets		2,906,703		
Current liabilities:		5,098,792		
Other current financial liabilities		949,419		
Other current liabilities		4,149,373		
Non-current liabilities:		1,835,024		
Other non-current liabilities		1,835,024		
Total value of disposed net assets	₩	83,530		
Controlling interest	₩	48,100		
Non-controlling interest	₩	35,430		

(3) Gain on disposal of investments in subsidiaries is as follows (Unit: Korean won in thousands):

	Decem	ber 31, 2019
	Korea El	ecom Co., Ltd.
Fair value of consideration received	₩	700,000
Carrying amount of disposed net assets		(48,100)
Gain (loss) on disposal of subsidiaries	W	651,900

Meanwhile, during the prior year, the subsidiary's disposal losses of  $$\mathbb{W}473,009$$  thousand were recognized as a result of liquidation of its subsidiary, UCESS PHILIPPINES, INC., and the adjustment of the disposal costs of its former subsidiaries.

(4) Net cash flows from disposal of investments in subsidiary are as follows (Unit: Korean won in thousands):

	Decei	mber 31, 2019
	Korea F	Elecom Co., Ltd.
Consideration received as cash and cash equivalents	₩	700,000
Less: Disposal of cash and cash equivalents		2,712,661
Net cash flows	₩	(2,012,661)

<sup>\*</sup> Meanwhile, there is no net cash outflow due to liquidation of the subsidiary company, UCESS PHILIPPINES, INC., during the prior year.

### 36. BUSINESS COMBINATION:

The Group acquired 56.21% of the voting shares of its subsidiary, Open Source Consulting Co., Ltd., during the prior year. The assets and liabilities were recognized at fair value at the time of acquisition and the difference between the fair value of net assets and the amount paid in the transferee was recognized as goodwill.

(1) As of the acquisition date, the fair value of the identifiable assets and liabilities of Open Source Consulting Co., Ltd. are as follows (Unit: Korean won in thousands):

	As of Acquisition date			
	Open Source Consulting			
	Co., Ltd.			
Current assets:	₩ 4,372,567			
Cash and cash equivalents	3,697,278			
Other current financial assets	671,093			
Other current assets	4,196			
Non-current assets:	5,114,201			
Property, plant and equipment and				
intangible asset	4,718,028			
Non-current financial assets	396,173			
Current liabilities:	981,371			
Other current financial liabilities	225,229			
Other current liabilities	756,142			
Non-current liabilities:	1,840,766			
Other non-current liabilities	1,840,766			
Total value of disposed net assets	₩ 6,664,631			
Controlling interest	₩ 3,746,500			
Non-controlling interest	₩ 2,918,131			
Transferred consideration	₩ 8,994,403			
Goodwill	₩ 5,247,904			

(2) The net cash flows from a business combination are as follows:(Unit: Korean won in thousands)

	Open Source Consulting		
		Co., Ltd.	
Consideration transferred consideration	₩	8,994,403	
Less: Trade and other payables		224,270	
Less: Cash and cash equivalents		3,697,278	
Cash outflows from business combination		5,072,855	

## 37. NON-CASH INVESTING AND FINANCING ACTIVITIES:

(1) Significant non-cash investing and financing activities for the years ended December 31, 2020 and 2019, are as follows (Unit: Korean won in thousands):

	Year ended December 31, 2020		_	ear ended nber 31, 2019
Increase in other account payable from				
acquisition of property, plant and	***	2 7 4 4 0 5 5	117	(2.554.445)
equipment and intangible assets	₩	3,544,966	₩	(2,554,145)
Reclassification of intangible assets under				
development to asset		1,388,548		591,917
Replacement of account between property,				
plant and equipment and investment				
property		(3,097,482)		12,655,893
Liquidity replacement of borrowings and				
bonds		89,898,487		229,933,714
Changes in right of use		6,823,738		75,028,182
Changes in right of lease liabilities		6,727,309		72,383,481
Reclassification of current lease liabilities		9,780,162		10,325,429
Total	₩	115,065,728	₩	398,364,471

(2) Liabilities adjustments from financing activities for the year ended December 31, 2020, are as follows (Unit: Korean won in thousands):

	Beginning	Cash flow	Non-cash change (other)	Non-cash change (liquidity reclassificati on)	Others	Ending
Short-term	₩ 24,620,328	₩ 6,891,825	₩(1,847,045)	₩ -	₩ -	₩ 29,665,108
borrowings						
Current portion of	229,933,714	(230,000,000)	-	89,898,487	140,231	89,972,432
long-term debentures						
Debentures	289,453,043	300,000,000	(1,087,252)	(89,898,487)	342,926	498,810,231
Current portion of	12,131,342	(13,268,603)	3,772,357	9,780,162	295,429	12,710,686
lease liabilities						
Lease liabilities	49,334,170	(49,845)	3,544,332	(9,780,162)	1,094,701	44,143,195
Total	₩ 605,472,597	₩ 63,573,377	₩ 4,382,392	₩ -	₩ 1,873,287	₩ 675,301,653

## 38. <u>APPROVAL OF CONSOLIDATED FINANCIAL STATEMENTS:</u>

The consolidated financial statements were approved by the board of directors on February 8, 2021, and are expected to be finally approved at the shareholders' meeting on March 25, 2021.