

SK Holdings Co., Ltd. and its subsidiaries

Interim condensed consolidated financial statements for the six-month periods ended June 30, 2020 and 2019 with the independent auditor's review report

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Report on review of interim condensed consolidated financial statements

The Shareholders and Board of Directors SK Holdings Co., Ltd.

We have reviewed the accompanying interim condensed consolidated financial statements of SK Holdings Co., Ltd. (the "Company") and its subsidiaries (collectively referred to as, the "Group"), which comprise the interim condensed consolidated statement of financial position as of June 30, 2020, and the interim condensed consolidated statements of comprehensive income for the three-month and sixmonth periods ended June 30, 2020 and 2019, interim condensed consolidated statements of cash flows for the six-month periods ended June 30, 2020 and 2019, interim condensed consolidated statements of cash flows for the six-month periods ended June 30, 2020 and 2019, and a summary of significant accounting policies and other explanatory information.

Management's responsibility for the interim condensed consolidated financial statements

Management is responsible for the preparation and presentation of these interim condensed consolidated financial statements in accordance with Korean International Financial Reporting Standards (KIFRS) 1034 *Interim Financial Reporting*, and for such internal control as management determines is necessary to enable the preparation of the interim condensed consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's responsibility

Our responsibility is to express a conclusion on these interim condensed consolidated financial statements based on our review.

We conducted our review in accordance with the review standards for interim financial statements in the Republic of Korea. A review of interim financial information consists of making inquiries, primarily of persons responsible for financial and accounting matters, and applying analytical and other review procedures. A review is substantially less in scope than an audit conducted in accordance with Korean Auditing Standards (KGAAS) and, consequently, does not enable us to obtain assurance that we would become aware of all significant matters that might be identified in an audit. Accordingly, we do not express an audit opinion.



Conclusion

Based on our review, nothing has come to our attention that causes us to believe that the accompanying interim condensed consolidated financial statements are not prepared, in all material respects, in accordance with KIFRS 1034 *Interim Financial Reporting*.

Other matter

We have audited the consolidated statement of financial position of the Group as of December 31, 2019, and the related consolidated statement of comprehensive income, consolidated statement of changes in equity and consolidated statement of cash flows for the year then ended (not presented herein) in accordance with KGAAS, and our report dated March 10, 2020 expressed an unqualified opinion thereon. The accompanying consolidated statement of financial position as of December 31, 2019, presented for comparative purposes, is not different, in all material respects, from the above audited consolidated statement of financial position.

Einst Joung Han Young

August 14, 2020

This review report is effective as of August 14, 2020, the independent auditor's review report date. Accordingly, certain material subsequent events or circumstances may have occurred during the period from the independent auditor's review report date to the time this review report is used. Such events and circumstances could significantly affect the accompanying interim condensed consolidated financial statements and may result in modification to this review report.

SK Holdings Co., Ltd. and its subsidiaries

Interim condensed consolidated financial statements for the six-month periods ended June 30, 2020 and 2019

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

Tae-won Chey, Dong-Hyun Jang and Sungha Park Chief Executive Officers SK Holdings Co., Ltd.

SK Holdings Co., Ltd. and its subsidiaries Interim condensed consolidated statements of financial position as of June 30, 2020 and December 31, 2019 (Korean won in millions and U.S. dollar in thousands)

		Kore	an won		nto U.S. dollar te 2)
	Notes	June 30, 2020 (Unaudited)	December 31, 2019	June 30, 2020 (Unaudited)	December 31, 2019
Assets					
Current assets:	_			+ (0.000.000	÷ 0.047.505
Cash and cash equivalents	5	₩ 13,164,041	₩ 7,981,755	\$ 10,963,639	\$ 6,647,585
Short-term financial instruments Trade receivables, net	5, 32	3,591,541	3,694,344	2,991,206	3,076,825
Other receivables	5, 6, 27, 34 5, 27, 31, 34	8,476,969 2,074,089	10,377,328 1,912,498	7,060,022 1,727,400	8,642,732 1,592,819
Inventories, net	5, 27, 31, 34 7	6,754,608	9,138,361	5,625,558	7,610,861
Short-term investment securities	5, 8, 32, 34	81,359	185,101	67,760	154,161
Other current assets	5, 18, 19, 32,34	4,698,820	4,431,557	3,913,401	3,690,811
Assets held for sale	29	931,671	2,308,204	775,940	1,922,382
Total current assets		39,773,098	40,029,148	33,124,926	33,338,176
Non-current assets:					
Long-term financial instruments	5, 32	97,516	7,598	81,216	6,328
Long-term trade receivables, net	5, 6, 34	188,832	130,171	157,268	108,413
Long-term other receivables	5, 31, 34	264,092	354,622	219,948	295,346
Long-term investment securities	5, 8, 32, 34	3,613,381	2,810,412	3,009,395	2,340,645
Investments in associates and joint ventures	9, 32	20,955,511	21,894,716	17,452,745	18,234,960
Property, plant and equipment, net	10, 32	44,863,945	42,846,379	37,364,825	35,684,499
Right-of-use assets, net Investment property, net	11	4,503,047 421,248	4,543,546 487,758	3,750,351 350,835	3,784,081 406,228
Goodwill	12, 32 13, 35	4,329,360	2,598,464	3,605,697	2,164,124
Intangible assets, net	14	12,602,909	12,067,786	10,496,301	10,050,625
Deferred tax assets	14	890,860	798,454	741,951	664,990
Other non-current assets	5, 18, 19, 27, 34	3,603,199	3,451,622	3,000,915	2,874,675
Total non-current assets	-, -, -, ,-	96,333,900	91,991,528	80,231,447	76,614,914
Total assets		₩ 136,106,998	₩ 132,020,676	<u>\$ 113,356,373</u>	\$ 109,953,090
Liabilities and equity Liabilities					
Current liabilities:	5 45 04			ф долг оог	ф. <u>4 004 400</u>
Short-term borrowings	5, 15, 34	₩ 8,497,756	₩ 5,888,357	\$ 7,077,335	\$ 4,904,103
Trade payables	5, 27, 34	6,231,555	8,809,856	5,189,935	7,337,267
Other payables Provisions	5, 27, 34 16	4,588,564	3,961,150	3,821,574	3,299,034
Current portion of long-term debt	5, 15, 34	579,140 5,433,047	584,093 6,029,722	482,335 4,524,900	486,460 5,021,839
Other current liabilities	5, 11, 18, 19	10,418,909	10,032,433	8,677,362	8,355,487
Liabilities held for sale	29	105,841	257,526	88,149	214,480
Total current liabilities	20	35,854,812	35,563,137	29,861,590	29,618,670
Non-current liabilities:					
Bonds payable and long-term borrowings	5, 15, 31, 34	36,069,510	32,374,161	30,040,401	26,962,740
Long-term trade payables	5, 27, 34	1,551	2,391	1,292	1,991
Long-term other payables	5, 34	1,186,527	1,565,043	988,196	1,303,442
Defined benefit liabilities	17	651,891	414,682	542,926	345,367
Provisions	16	180,534	210,606	150,357	175,403
Deferred tax liabilities		4,640,683	5,493,581	3,864,981	4,575,315
Other non-current liabilities	5, 11, 18, 19, 34	4,333,820	4,214,440	3,609,411	3,509,986
Total non-current liabilities Total liabilities		47,064,516 82,919,328	44,274,904 79,838,041	<u>39,197,564</u> 69,059,154	<u>36,874,244</u> 66,492,914
Equity					
Equity attributable to owners of the parent:					
Issued capital	1, 20	15,385	15,385	12,813	12,813
Other paid-in capital	20	5,342,775	4,074,176	4,449,717	3,393,167
Retained earnings	20	12,141,114	12,558,584	10,111,697	10,459,385
Other components of equity	20	410,244	37,624	341,671	31,335
Total equity attributable to owner of the parent		17,909,518	16,685,769	14,915,898	13,896,700
Non-controlling interests		35,278,152	35,496,866	29,381,321	29,563,476
Total equity		53,187,670	52,182,635	44,297,219	43,460,176
Total liabilities and equity		<u>₩ 136,106,998</u>	₩ 132,020,676	<u>\$ 113,356,373</u>	<u>\$ 109,953,090</u>

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

SK Holdings Co., Ltd. and its subsidiaries Interim condensed consolidated statements of comprehensive income for the three months and six months ended June 30, 2020 and 2019

(Korean won in millions, except for earnings per share)

					Korea	n wo	n		
			June 3				June 3	-	
			(unau		,		(unau		
	Notes	Tł	ree months		Six months	Th	ree months		Six months
Sales Cost of sales	4, 27 24, 27	₩	18,780,904 17,307,357	₩	42,503,190 40,572,353	₩	24,847,444 22,504,549	₩	50,118,425 45,368,612
Gross profit			1,473,547		1,930,837		2,342,895		4,749,813
Selling and administrative expenses	21, 24, 27	7	1,284,543		2,661,808		1,184,887		2,306,660
Operating income	4		189,004		(730,971)		1,158,008		2,443,153
Finance income	22		574,567		3,252,070		915,012		2,055,596
Finance costs	22		820,973		3,822,752		1,312,890		2,747,466
Gain on investments in associates									
and joint ventures, net	9		243,750		368,057		197,368		451,870
Other non-operating income	23		555,905		948,911		78,074		213,684
Other non-operating expenses	23		362,544		722,673		159,122		238,455
Profit (loss) from continuing operations before income tax expense	4		379,709		(707,358)		876,450		2,178,382
Income tax expense from continuing operations	25		357,237		58,543		391,032		702,942
Profit (loss) for the period from continuing operations	4		22,472		(765,901)		485,418		1,475,440
Gain (loss) from discontinued operation	28		95,111		51,100		(509)		(9,074)
Profit (loss) for the period		₩	117,583	₩	(714,801)	₩	484,909	₩	1,466,366
Attributable to:									
Owners of the parent			11,141		(176,299)		117,402		577,803
Non-controlling interests			106,442		(538,502)		367,507		888,563
Other comprehensive income (loss): Items that will not be reclassified to profit or loss in subsequent periods (net of tax): Remeasurement gain(loss) on defined benefit plans Net gain(loss) on valuation of financial assets at FVOCI			(8,990) 213,044		(52,723) 136,582		(28,388) (19,822)		(81,429) (22,223)
Items that may be reclassified to profit or loss in subsequent periods (net of tax): Equity adjustments of investments in associates			(97,041)		47,345		30,165		154,166
and joint ventures Gain (loss) on valuation of derivative financial instruments			(10,157)		26,213		11,440		16,831
Net gain(loss) on translation of foreign operations			(165,212)		597,473		183,509		366,071
Not gain (1999) on a distance of foreign operations			(68,356)		754,890		176,904		433,416
					,		, ,		
Total comprehensive income for the period Attributable to:		₩	49,227	₩	40,089	₩	661,813	₩	1,899,782
Owners of the parent			(95,881)		166,863		228,751		815,812
Non-controlling interests			145,108		(126,774)		433,062		1,083,970
Earnings per share (Korean won):	26								
Basic earnings (losses) per share	20	₩	191	₩	(3,403)	447	2.083	₩	10.320
Basic earnings (losses) per share from continuing operations		vv	(613)	vv	(3,844)	vV	2,003	vv	10,392
zasis saminge (100000) per share nom continuing operations			(010)		(0,0-++)		2,000		10,002

SK Holdings Co., Ltd. and its subsidiaries Interim condensed consolidated statements of comprehensive income for the three months and six months ended June 30, 2020 and 2019 (U.S. dollar in thousands, except for earnings per share)

				Tra	Inslation into L	J.S.	dollar (Note 2)		
			June 30				June 30	·	
			(unauc		<u>,</u>		(unauc		<u>,</u>
	Notes	Tł	ree months		Six months		hree months	_	Six months
Sales Cost of sales	4, 27 24, 27	\$	15,641,629 14,414,389	\$	35,398,676 33,790,583	\$	20,694,132 18,742,857	\$	41,741,005 37,785,135
Gross profit			1,227,240		1,608,093		1,951,275		3,955,870
Selling and administrative expenses	21, 24, 27	7	1,069,828		2,216,880		986,830		1,921,096
Operating income	4		157,412		(608,787)		964,445		2,034,774
Finance income	22		478.527		2,708,478		762.065		1,711,998
Finance costs	22		683,745		3,183,769		1,093,437		2,288,220
Gain on investments in associates					-,,		.,,		_,,
and joint ventures, net	9		203,007		306,535		164,377		376,339
Other non-operating income	23		462,984		790,298		65,024		177,966
Other non-operating expenses	23		301,944		601,876		132,524		198,597
Profit (loss) from continuing operations before income tax expense	4		316,241		(589,121)		729,950		1,814,260
Income tax expense from continuing operations	25		297,524		48,758		325,670		585,443
Profit (loss) for the period from continuing operations	4		18,717		(637,879)		404,280		1,228,817
Gain (loss) from discontinued operation	28		79,213		42,559		(424)		(7,557)
Profit (loss) for the period		\$	97,930	\$	(595,320)	\$	403,856	\$	1,221,260
Attributable to:				_		_		_	
Owners of the parent			9,279		(146,830)		97,778		481,222
Non-controlling interests			88,651		(448,490)		306,078		740,038
Other comprehensive income (loss): Items that will not be reclassified to profit or loss in subsequent periods (net of tax): Remeasurement gain(loss) on defined benefit plans			(7,487)		(43,910)		(23,643)		(67,818)
Net gain(loss) on valuation of financial assets at FVOCI Items that may be reclassified to profit or loss in subsequent periods (net of tax):			177,433		113,752		(16,509)		(18,508)
Equity adjustments of investments in associates and joint ventures			(80,820)		39,431		25,123		128,397
Gain (loss) on valuation of derivative financial instruments			(8,459)		21,831		9,528		14,018
Net gain (loss) on translation of foreign operations			(137,596)		497,604		152,835		304,881
			(56,929)		628,708		147,334		360,970
Total comprehensive income for the period Attributable to:		<u>\$</u>	41,001	\$	33,388	<u>\$</u>	551,190	\$	1,582,230
Owners of the parent			(79,852)		138,971		190,515		679,447
Non-controlling interests			120,853		(105,583)		360,675		902,783
Earnings per share (U.S. dollar):	26								
Basic earnings (losses) per share		\$	0.16	\$	(2.83)	\$	1.73	\$	8.59
Basic earnings (losses) per share from continuing operations			(0.51)		(3.20)		1.74		8.65

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

SK Holdings Co., Ltd. and its subsidiaries Interim condensed consolidated statements of changes in equity for the six months ended June 30, 2020 and 2019 (Korean won in millions)

								Other	-	Fotal equity				
	lssued	Issued capital	paic	Other paid-in capital		Retained earnings	ö	components of equity	o at	attributable to owners of the	Non	Non-controlling interests	Ĕ	Total equity
As of January 1, 2019	₿	15,385	≱	4,631,955	∦≱	12,217,319	∦	(237,143)	₿	16,627,516	∦	34,260,356	∦	50,887,872
Effect of changes in accounting policies		•		•		(5,099)		•		(2,099)		(22,114)		(27,213)
As of January 1, 2019 (Restated)	A	15,385	₩	4,631,955	≱	12,212,220	₩	(237,143)	₩	16,622,417	₩	34,238,242	₩	50,860,659
Total comprehensive income:														
Profit for the period		•		ı		577,803		'		577,803		888,563		1,466,366
Remeasurement loss on defined benefit plans		•		•		(47,269)				(47,269)		(34,160)		(81,429)
Net loss on valuation of financial instruments														
at FVOCI		•		I		ı		(14,484)		(14,484)		(7,739)		(22,223)
Equity adjustments of investments in														
associates and joint ventures				ı		1		82,837		82,837		71,329		154,166
Gain (loss) on valuation of derivative financial instruments	nents	•		·		'		(1,098)		(1,098)		17,929		16,831
Net gain on translation of foreign operations				ı		I		218,023		218,023		148,048		366,071
Transaction with shareholders:														
Dividends		•		ı		(225,583)		'		(225,583)		(1,257,050)		(1,482,633)
Equity transactions within consolidated entities		•		381,715		(15,099)		'		366,616		1,377,694		1,744,310
Changes in the scope of consolidation		•		•				'				367,341		367,341
Others		•		(878)		21,726				20,848		13,032		33,880
As of June 30, 2019 (Unaudited)	M	15,385	≱	5,012,792	≱	12,523,798	≱	48,135	₩	17,600,110	≱	35,823,229	≱	53,423,339
As of January 1, 2020	₩	15,385	æ	4,074,176	₩	12,558,584	₩	37,624	A	16,685,769	₩	35,496,866	₩	52,182,635
Total comprehensive income:														
Loss for the period		•		ı		(176,299)		'		(176,299)		(538,502)		(714,801)
Remeasurement loss on defined benefit plans		'		ı		(29,458)		I		(29,458)		(23,265)		(52,723)
Net loss on valuation of financial instruments														
at FVOCI		•		•				30,064		30,064		106,518		136,582
Equity adjustments of investments in														
associates and joint ventures		•		ı		'		10,701		10,701		36,644		47,345
Gain (loss) on valuation of derivative financial instruments	nents			ı		1		39,801		39,801		(13,588)		26,213
Net gain on translation of foreign operations		•		ı				292,054		292,054		305,419		597,473
Transaction with shareholders:														
Dividends		•		•		(211,503)		'		(211,503)		(798,426)		(1,009,929)
Equity transactions within consolidated entities		•		1,267,196		'		'		1,267,196		709,058		1,976,254
Changes in the scope of consolidation		•		ı				'		'		(2,768)		(2,768)
Others		'		1,403		(210)		'		1,193		196		1,389
As of June 30, 2020 (Unaudited)	₩	15,385	₩	5,342,775	≱	12,141,114	≱	410,244	≱	17,909,518	₩	35,278,152	≱	53,187,670

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SK Holdings Co., Ltd. and its subsidiaries Interim condensed consolidated statements of changes in equity for the six months ended June 30, 2020 and 2019 (cont'd) (U.S. dollar in thousands)

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								Other	attr attr	Total equity attributable to				
	Issue	Issued capital	paic	Other paid-in capital	щυ	Retained earnings	of of	components of equity	ŇO	owners of the parent	Non-o in	Non-controlling interests	Tot	Total equity
As of January 1, 2019	\$	12,813	ф	3,857,712	\$	10,175,164	₩	(197,504)	\$	13,848,185	\$	652	\$	42,381,837
Effect of changes in accounting policies As of January 1, 2019 (Restated)	4	12 813	4	3 857 712	4	(4,247) 10 170 917	ter le	- (197 504)	H.	(4,247) 13 843 938	t u	(18,418) 28 515 234	ter let	(22,665) 42 359 172
Total comprehensive income:	ð		¥	21 16 10060	¥	1001101	7	1-001.01	÷	200101010	¥	ï	÷	
Profit for the period		'				481,222				481,222		740,038		1,221,260
Remeasurement loss on defined benefit plans		'		'		(39,368)		ı		(39,368)		(28,450)		(67,818)
Net loss on valuation of financial instruments														
measured at FVOCI		'		'		'		(12,063)		(12,063)		(6,445)		(18,508)
Equity adjustments of investment in														
associates and joint ventures				'		ı		68,991		68,991		59,406		128,397
Gain (loss) on valuation of derivative financial instruments	ments	•				•		(914)		(914)		14,932		14,018
Net gain on translation of foreign operations				ı		ı		181,580		181,580		123,301		304,881
Transaction with shareholders:														
Dividends				ı		(187,876)		ı		(187,876)		(1,046,931)		(1,234,807)
Equity transactions within consolidated entities				317,910		(12,575)		,		305,335		1,147,409		1,452,744
Changes in the scope of consolidation				ı		ı		ı		'		305,939		305,939
Others		•		(731)		18,094		'		17,363		10,854		28,217
As of June 30, 2019 (Unaudited)	÷	12,813	÷	4,174,891	÷	10,430,414	÷	40,090	÷	14,658,208	÷	29,835,287	\$	44,493,495
As of January 1, 2020	\$	12,813	÷	3,393,167	÷	10,459,385	÷	31,335	÷	13,896,700	÷	29,563,476	\$	43,460,176
Total comprehensive income:														
Loss for the period		'				(146,830)		'		(146,830)		(448,490)		(595,320)
Remeasurement loss on defined benefit plans				'		(24,534)		'		(24,534)		(19,376)		(43,910)
Net loss on valuation of financial instruments		'		•		•		25,039		25,039		88,713		113,752
measured at FVOOI Fruitiv adiitstments of investments in								8 012		8 012		30 519		30 431
associates and joint ventures								1		1				
Gain (loss) on valuation of derivative financial instruments	ments			,		ı		33,148		33,148		(11,317)		21,831
Net gain on translation of foreign operations		•		ı		I		243,237		243,237		254,367		497,604
Transaction with shareholders:														
Dividends				'		(176,150)		'		(176,150)		(664,967)		(841,117)
Equity transactions within consolidated entities		•		1,055,381				'		1,055,381		590,537		1,645,918
Changes in the scope of consolidation				'		ı		ı		1		(2,305)		(2,305)
Others				1,169		(174)		'		995		164		1,159
As of June 30, 2020 (Unaudited)	÷	12,813	÷	4,449,717	Ś	10,111,697	÷	341,671	÷	14,915,898	÷	29,381,321	÷	44,297,219

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

SK Holdings Co., Ltd. and its subsidiaries Interim condensed consolidated statements of cash flows for the six months ended June 30, 2020 and 2019 (Korean won in millions and U.S. dollar in thousands)

Notes Transition into 2020 2019 2020 2020 2019 2020 2019 2020 2019					For tl	ne six month	ns en	ded June 30		
Notes 2020 2019 2020 2019 (Unaudited) (Unaudited) (Unaudited) (Unaudited) (Unaudited) Profit (loss) for the period w (714,801) w 1,483,884 3,252,462 3,756,016 Working captula digistments 30 3,253,487 4,485,834 3,222,652 3,756,016 Working captula digistments 30 2,144,069 (124,723) 1,785,683 (176,871) Dividends received (73,911) (768,461) (612,240) (666,689) Nocrease (decrease) in short-term and long-term financial instruments, net 13,386 82,034 11,143 68,322 Increase (decrease) in short-term and long-term moles and dipsod of forg-term investment securities 42,257 225,542 3,184 211,162 Proceeds from dipsod of org-term investment securities 42,257 12,801 (268,489) (224,480) (224,480) (224,540) (224,540) (224,540) (224,540) (224,540) (224,540) (224,540) (224,540) (224,540) (224,540) (224,540) (224,540) (224,54				Korea	n won					
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Profit (loss) for the period ₩ (714,801) ₩ 4,468,366 \$ (595,320) \$ 1,221,260 Non-cash adjustments 30 2,144,069 (1,247,203) 1,785,683 (1,038,730) Interest received 09,096 (1247,203) 1,785,683 (1,038,730) Interest paid (739,582) (714,021) (615,059) (594,671) Dividends received (232,492) 31,4228 (93,630,685) 3,524,157 3,028,971 Cash flows from investing activities 4,231,454 3,636,885 3,524,157 3,028,971 Increase (decrease) in short-term and long-term financial instruments, net 13,386 6,331 (29,443) 5,314 Increase (decrease) in short-term and long-term loses, net 13,386 6,465 109,455 47,027 91,169 Proceeds from disposal of investments ascurities 2,102,578 12,808 1,751,127 10,667 Proceeds from disposal of investments in associates and loit ventures (283,555) 45,213 32,943 45,408 Acquisition of insystimets in associates and loit ventures (283,562) (2,176,490) (224,640) (224,560)		Notes	(U	naudited)	(Uı	naudited)	(L		(I	Jnaudited)
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Increase (decrease) in short-term and long-term loans, net (35,833) 6,381 (29,843) 5,314 Increase in short-term investment securities 56,465 109,455 47,027 91,159 Proceeds from disposal of long-term investment securities 42,257 235,542 35,194 211,162 Proceeds from disposal of investments in associates and joint ventures 2,102,578 12,808 1,751,127 10,667 Joint ventures 12,480 14,466 10,661 12,048 42,456,00 Acquisition of long-term investment securities (285,549) (246,460) (224,560) Acquisition of long-term investment securities (282,646) (224,560) (224,560) (224,560) (244,560) (244,560) (244,560) (244,560) (244,560) (244,560) (244,560) (244,560) (244,560) (242,560) (231,518) (265,473) (231,518) (231,518) (231,518) (231,518) (3167,706) (361,486) (231,22) 1,057,651 1,057,651 1,057,651 1,057,651 1,057,651 1,057,651 1,057,651 1,057,651 1,057,631 (361	5									
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Acquisition of investments in associates and joint ventures (283,562) (2,176,489) (236,164) (1,812,683) Acquisition of property, plant and equipment (4,345,748) (3,187,706) (3,619,345) (2,654,873) Acquisition of intragible assets (282,646) (278,344) (235,401) (231,818) Net changes in cash due to changes in the scope of consolidation (1,027,167) (278,986) (855,473) (232,122) Net cash used in investing activities (1,034,386) (27,763) (861,486) (23,122) Net cash used in investing activities: (1,034,386) (27,763) (3,138,441) (4,735,314) Cash flows from financing activities: (3,768,327) (5,685,692) (3,138,441) (4,735,314) Decrease in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in other payables (427,068) (433,777) (355,683) (361,270) Decrease in other payables (427,068) (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within (501,570) (404,060) (417,731) (336,520) Paymen	Proceeds from disposal of intangible assets			12,801		14,466		10,661		12,048
Acquisition of property, plant and equipment (4,345,748) (3,187,706) (3,619,345) (2,654,873) Acquisition of intangible assets (282,646) (278,344) (235,401) (231,818) Net changes in cash due to changes in the scope of consolidation (1,027,167) (278,968) (855,473) (232,338) Net cash used in investing activities (1,034,386) (27,763) (861,486) (23,122) Net cash used in investing activities: (1,034,386) (27,763) (861,486) (23,122) Net cash used in investing activities: (3,768,327) (5,685,692) (3,138,441) (4,735,314) Cash flows from financing activities: (1,027,068) (4,33,777) (356,809) 4,230,541 Increase in short-term borrowings, net 2,563,695 669,548 2,135,167 557,631 Increase in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in other payables (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities (1,010,483) (1,484,816) (841,578) (1,243,0625) Cash inflows (outflow	Acquisition of long-term investment securities			(295,949)		(269,629)		(246,480)		(224,560)
Acquisition of intangible assets (282,646) (278,344) (235,401) (231,818) Net changes in cash due to changes in the scope of consolidation (1,027,167) (278,968) (855,473) (232,338) Transfer of business 1,269,922 - 1,057,651 - Others, net (1,034,386) (27,763) (861,466) (23,122) Net cash used in investing activities (3,768,327) (5,685,692) (3,138,441) (4,735,314) Cash flows from financing activities: (1,024,085) 669,548 2,135,167 557,631 Increase in short-term borrowings, net 2,563,695 669,548 2,135,167 557,631 Decrease in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in lease liabilities (501,570) (404,060) (417,731) (336,525) Cash inflows (outflows) from equity transactions within consolidated entities (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775)	Acquisition of investments in associates and joint ventures			(283,562)		(2,176,489)		(236,164)		(1,812,683)
Net changes in cash due to changes in the scope of consolidation (1,027,167) (278,968) (855,473) (232,338) Transfer of business 1,269,922 - 1,057,651 - Others, net (1,034,386) (27,763) (861,486) (23,122) Net cash used in investing activities (3,768,327) (5,685,692) (3,138,441) (4,735,314) Cash flows from financing activities: (1,027,063) (2,024,127) (2,024,127) Increase in short-term borrowings, net 2,563,695 669,548 2,135,167 557,631 Decrease in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in lease liabilities (40,99,634) (2,430,369) (3,414,370) (2,024,127) Decrease in ondre payables (427,068) (433,777) (355,683) (361,270) Decrease in lease liabilities (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities	Acquisition of property, plant and equipment			(4,345,748)		(3,187,706)		(3,619,345)		(2,654,873)
Transfer of business 1,269,922 1,057,651 Others, net (1,034,386) (27,763) (861,486) (23,122) Net cash used in investing activities (3,768,327) (5,685,692) (3,138,441) (4,735,314) Cash flows from financing activities: (3,768,327) (5,685,692) (3,138,441) (4,735,314) Cash flows from financing activities: (3,768,327) (5,685,692) (3,138,441) (4,735,314) Cash flows from financing activities: (4,039,634) (2,430,369) (3,414,370) (2,02,4,127) Decrease in bonds payable and borrowings (427,068) (433,777) (355,683) (361,270) Decrease in onds payable and borrowings (501,570) (404,060) (417,731) (336,520) Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 <td>Acquisition of intangible assets</td> <td></td> <td></td> <td>(282,646)</td> <td></td> <td>(278,344)</td> <td></td> <td>(235,401)</td> <td></td> <td>(231,818)</td>	Acquisition of intangible assets			(282,646)		(278,344)		(235,401)		(231,818)
Others, net (1,034,386) (27,763) (861,486) (23,122) Net cash used in investing activities (3,768,327) (5,685,692) (3,138,441) (4,735,314) Cash flows from financing activities: (3,768,327) (5,685,692) (3,138,441) (4,735,314) Cash flows from financing activities: (1,034,386) (27,763) (69,548 2,135,167 557,631 Increase in short-term borrowings, net 2,563,695 669,548 2,135,167 557,631 Decrease in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in lease liabilities (501,570) (404,060) (417,731) (336,520) Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303	Net changes in cash due to changes in the scope of consolidat	tion		(1,027,167)		(278,968)		(855,473)		(232,338)
Net cash used in investing activities (3,768,327) (5,685,692) (3,138,441) (4,735,314) Cash flows from financing activities: Increase in short-term borrowings, net 2,563,695 669,548 2,135,167 557,631 Increase in bonds payable and borrowings 6,829,697 5,079,610 5,688,096 4,230,541 Decrease in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in other payables (427,068) (433,777) (355,683) (361,270) Decrease in lease liabilities (501,570) (404,060) (417,731) (336,520) Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931	Transfer of business			1,269,922		-		1,057,651		-
Cash flows from financing activities: Increase in short-term borrowings, net 2,563,695 669,548 2,135,167 557,631 Increase in bonds payable and borrowings 6,829,697 5,079,610 5,688,096 4,230,541 Decrease in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in other payables (427,068) (433,777) (355,683) (361,270) Decrease in lease liabilities (501,570) (404,060) (417,731) (336,520) Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year <	Others, net			(1,034,386)		(27,763)		(861,486)		(23,122)
Increase in short-term borrowings, net 2,563,695 669,548 2,135,167 557,631 Increase in bonds payable and borrowings 6,829,697 5,079,610 5,688,096 4,230,541 Decrease in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in other payables (427,068) (433,777) (355,683) (361,270) Decrease in lease liabilities (501,570) (404,060) (417,731) (336,520) Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the begi	Net cash used in investing activities			(3,768,327)		(5,685,692)		(3,138,441)		(4,735,314)
Increase in bonds payable and borrowings 6,829,697 5,079,610 5,688,096 4,230,541 Decrease in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in other payables (427,068) (433,777) (355,683) (361,270) Decrease in lease liabilities (501,570) (404,060) (417,731) (336,520) Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234 <td>Cash flows from financing activities:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Cash flows from financing activities:									
Decrease in bonds payable and borrowings (4,099,634) (2,430,369) (3,414,370) (2,024,127) Decrease in other payables (427,068) (433,777) (355,683) (361,270) Decrease in lease liabilities (501,570) (404,060) (417,731) (336,520) Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234	Increase in short-term borrowings, net			2,563,695		669,548		2,135,167		557,631
Decrease in other payables (427,068) (433,777) (355,683) (361,270) Decrease in lease liabilities (501,570) (404,060) (417,731) (336,520) Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234	Increase in bonds payable and borrowings			6,829,697		5,079,610		5,688,096		4,230,541
Decrease in lease liabilities (501,570) (404,060) (417,731) (336,520) Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234	Decrease in bonds payable and borrowings			(4,099,634)		(2,430,369)		(3,414,370)		(2,024,127)
Payment of dividends (1,010,483) (1,484,816) (841,578) (1,236,625) Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234				(427,068)		(433,777)				(361,270)
Cash inflows (outflows) from equity transactions within consolidated entities 1,230,400 1,942,492 1,024,736 1,617,800 Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234	Decrease in lease liabilities			(501,570)		(404,060)		(417,731)		(336,520)
consolidated entities 1,230,400 (5,079) 1,942,492 (39,775) 1,024,736 (4,230) 1,617,800 (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234	Payment of dividends			(1,010,483)		(1,484,816)		(841,578)		(1,236,625)
Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234	Cash inflows (outflows) from equity transactions within									
Others, net (5,079) (39,775) (4,230) (33,127) Net cash provided by (used in) financing activities 4,579,958 2,898,853 3,814,407 2,414,303 Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234				1,230,400		1,942,492		1,024,736		1,617,800
Net increase in cash and cash equivalents 5,043,085 850,046 4,200,123 707,960 Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234	Others, net			(5,079)		(39,775)		(4,230)		(33,127)
Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234	Net cash provided by (used in) financing activities			4,579,958	·	2,898,853		3,814,407		2,414,303
Net foreign exchange effects 139,201 58,491 115,931 48,714 Cash and cash equivalents at the beginning of the year 7,981,755 6,783,035 6,647,585 5,649,234	Net increase in cash and cash equivalents			5,043,085		850,046		4,200,123		707,960
	Net foreign exchange effects									
	Cash and cash equivalents at the beginning of the year			7,981,755		6,783,035		6,647,585		5,649,234
	Cash and cash equivalents at the end of the year		₩	13,164,041	₩	7,691,572	\$	10,963,639	\$	6,405,908

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

1. Corporate information

1.1 Parent

SK Holdings Co., Ltd. (the "Company") was established on April 13, 1991 and has been engaged in providing systems integration, software design and development, information processing and consulting services, and is headquartered at 26, Jong-ro, Jongno-gu, Seoul. The Company's ordinary shares have been listed on the Korea Exchange since November 11, 2009.

Upon the acquisition of SK Holdings Co., Ltd. by SK C&C Co., Ltd. effective on August 1, 2015, the Company added the investment business to its existing operations for the purpose of holding the securities of its subsidiaries. Furthermore, the Company changed its name to its current form as of the acquisition date.

As of June 30, 2020, the issued capital of the Company amounts to #15,385 million (including #113 million of preferred shares), and the major shareholders are Tae-won Chey, National Pension Service and Ki-won Choi holding equity ownership of 18.44%, 7.93%, and 6.85%, respectively.

1.2 Consolidated subsidiaries

The Company and its subsidiaries (collectively, the "Group") are engaged in petroleum refining, telecommunications, wholesale and retail, chemicals, construction and other industries. Subsidiaries whose accounts are included in the consolidated financial statements as of June 30, 2020 are as follows:

Equity

				Equity
Subsidiaries	Demisile	Dain air al buair ann anti-ite	The lowest should all	ownership (*1)
	Domicile	Principal business activity	The largest shareholders	
SK Innovation Co., Ltd. (*2)	Korea	Resource development	SK Holdings Co., Ltd.	33.40%
SK Energy Co., Ltd.	Korea	Crude oil refining and sales	SK Innovation Co., Ltd.	100.00%
Netruck Co., Ltd.	Korea	Transportation and oil sales	SK Energy Co., Ltd.	100.00%
Jeju United FC Corporation	Korea	Sports association sponsoring	SK Energy Co., Ltd.	100.00%
Happy Didim Co., Ltd.	Korea	Service	SK Energy Co., Ltd.	100.00%
SK Energy Road Investment Co., Ltd.	Cayman	Investment	SK Energy Co., Ltd.	100.00%
SK Energy Hong Kong Co., Ltd.	Hong Kong	Investment	SK Energy Co., Ltd.	100.00%
SK Energy Road Investment (HK) Co., Ltd.	Hong Kong	Investment	SK Energy Road Investment Co., Ltd.	100.00%
Ningbo SK Baoying Asphalt Storage Co., Ltd.	China	Asphalt manufacturing	SK Energy Road Investment (HK) Co., Ltd.	51.00%
Hefei SK Baoying Asphalt Co., Ltd.	China	Asphalt manufacturing	SK Energy Road Investment (HK) Co., Ltd.	51.00%
Chongqing SK Asphalt Co., Ltd.	China	Asphalt manufacturing	SK Energy Road Investment (HK) Co., Ltd.	51.00%
SK Asphalt (Shanghai) Co., Ltd.	China	Logistics	SK Energy Road Investment (HK) Co., Ltd.	100.00%
SK Global Chemical Co., Ltd.	Korea	Chemicals manufacturing and sales	SK Innovation Co., Ltd.	100.00%
SK Global Chemical (China) Holding Co., Ltd.	China	Investment	SK Global Chemical Co., Ltd.	100.00%
SK Global Chemical China Limited	Hong Kong	Investment	SK Global Chemical Co., Ltd.	100.00%
SK Global Chemical International Trading (Shanghai) Co., Ltd.	China	Petrochemicals sales	SK Global Chemical China Limitied	100.00%
SK Global Chemical International Trading (Guangzhou) Co., Ltd.	China	Petrochemicals sales	SK Global Chemical China Limitied	100.00%
SK Global Chemical Americas, Inc.	USA	Petrochemicals sales	SK Global Chemical Co., Ltd.	100.00%
SK Primacor Americas LLC	USA	Petrochemicals sales	SK Global Chemical Americas, Inc.	100.00%
SK Primacor Europe, S.L.U.	Spain	Petrochemicals sales	SK Global Chemical Americas, Inc.	100.00%
SK Saran Americas LLC	USA	Petrochemicals sales	SK Global Chemical Americas, Inc.	100.00%
SK Global Chemical Japan Co., Ltd.	Japan	Petrochemicals sales	SK Global Chemical Co., Ltd.	100.00%
SK Global Chemical Singapore Pte. Ltd.	Singapore	Petrochemicals sales	SK Global Chemical Co., Ltd.	100.00%
SK Global Chemical Investment Hong Kong Ltd.	Hong Kong	Investment	SK Global Chemical Co., Ltd.	100.00%
Ningbo SK Performance Rubber Co., Ltd.	China	Synthetic rubber manufacturing	SK Global Chemical Investment Hong Kong Ltd.	80.00%
Happymoeum Co., Ltd.	Korea	Service	SK Global Chemical Co., Ltd.	100.00%
SK Functional Polymer, S.A.S	France	Petrochemicals sales	SK Global Chemical Co., Ltd.	100.00%
SK Incheon Petrochem Co., Ltd.	Korea	Chemicals manufacturing and sales	SK Innovation Co., Ltd.	100.00%
SK Trading International Co., Ltd.	Korea	Trading business	SK Innovation Co., Ltd.	100.00%
SK Energy International Pte. Ltd.	Singapore	Trading business	SK Trading International Co., Ltd.	100.00%
SK Energy Europe, Ltd.	Ŭĸ	Trading business	SK Energy International Pte. Ltd.	100.00%
SK Energy Americas, Inc.	USA	Trading business	SK Energy International Pte. Ltd.	100.00%
SK Terminal B.V.	Netherlands	Investment	SK Energy International Pte. Ltd.	100.00%
SK Lubricants Co., Ltd.	Korea	Lubricants oil manufacturing and sales	SK Innovation Co., Ltd.	100.00%
Yubase Manufacturing Asia Corporation	Korea	Lubricants oil processing	SK Lubricants Co., Ltd.	70.00%
SK Energy Lubricants (Tianjin) Co., Ltd.	China	Lubricants oil manufacturing and sales	SK Lubricants Co., Ltd.	100.00%
SK Lubricants Americas. Inc.	USA	Lubricants oil sales	SK Lubricants Co., Ltd.	100.00%
SK Lubricants Europe B.V.	Netherlands	Lubricants oil sales	SK Lubricants Co., Ltd.	100.00%
SK Lubricants Japan Co., Ltd.	Japan	Lubricants oil sales	SK Lubricants Co., Ltd.	100.00%
SK Lubricants & Oils India Pvt. Ltd.	India	Lubricants oil sales	SK Lubricants Co., Ltd.	100.00%
Iberian Lube Base Oils, S.A.	Spain	Lubricants oil manufacturing and sales	SK Lubricants Co., Ltd.	70.00%
SK Lubricants Russia LLC	Russia	Lubricants oil sales	SK Lubricants Co., Ltd.	100.00%
SK ietechnology Co., Ltd.	Korea	Plastic film manufacturing	SK Innovation Co., Ltd.	100.00%
SK Hi-tech Battery Materials(Jiang Su) Co., Ltd.	China	Separation membrane for secondary	SK ietechnology Co., Ltd.	100.00%
or the teen ballery matchalo(blang ou) ool, Eta.	Oning	battery manufacturing	or letoinology oo., Etc.	100.0070
SK Hi-tech Battery Materials Poland Sp. Zo.o.	Poland	Separation membrane for secondary	SK ietechnology Co., Ltd.	100.00%
or the con Battery Materials Folding op. 20.0.	roland	battery manufacturing	or letoinology oo., Etc.	100.0070
SK Mobile Energy Co., Ltd.	Korea	Lithium battery manufacturing	SK Innovation Co., Ltd.	100.00%
SK Innovation Insurance (Bermuda), Ltd.	Bermuda	Insurance	SK Innovation Co., Ltd.	100.00%
SK USA, Inc.	USA	Management consulting services	SK Innovation Co., Ltd.	100.00%
Super Seed NY. LLC	USA	Investment	SK USA. Inc.	100.00%
Blue Dragon Energy Co., Limited.	Hong Kong	Investment	SK USA, Inc. SK Innovation Co., Ltd.	100.00%
Jiangsu SK Battery Certification Center	China	Lithium Battery Certification and	Blue Dragon Energy Co., Limited.	100.00%
Jangau on Dattery Certification Certier	Giiiia	Evaluation	Dide Dragon Energy Co., Linited.	100.00%

				Equity ownership
Subsidiaries	Domicile	Principal business activity	The largest shareholders	(*1)
SK Battery Hungary Kft. SK Battery America, Inc.	Hungary USA	Lithium battery manufacturing	SK Innovation Co., Ltd. SK Innovation Co., Ltd.	100.00% 100.00%
SK Battery Manufacturing Kft.	Hungary	Lithium battery manufacturing Lithium battery manufacturing	SK Innovation Co., Ltd.	100.00%
Happy Kium Co., Ltd.	Korea	Service	SK Innovation Co., Ltd.	100.00%
SK Future Energy(Shanghai) Co.,Ltd.	China	Battery sales	SK Innovation Co., Ltd.	100.00%
SK E&P Company, Ltd.	USA	Crude oil development	SK Innovation Co., Ltd.	100.00%
SK E&P America, Inc.	USA	Investment	SK Innovation Co., Ltd.	100.00%
SK Plymouth, LLC	USA	Crude oil development	SK E&P America, Inc.	100.00%
SK Permian, LLC	USA	Crude oil development	SK E&P America, Inc.	100.00%
SK E&P Operations America, LLC	USA	Crude oil development	SK E&P America, Inc.	100.00%
SK Nemaha, LLC Blue Sky United Energy Co., Ltd.	USA China	Crude oil development	SK E&P America, Inc. SK Innovation Co., Ltd.	100.00% 100.00%
SK Telecom Co., Ltd. (*2)	Korea	Lithium battery manufacturing Mobile telecommunications	SK Holdings Co., Ltd.	26.78%
SK Telink Co., Ltd.	Korea	International call and MVNO business	SK Telecom Co., Ltd.	100.00%
SK Telink Vietnam Co., Ltd.	Vietnam	Resale communication business	SK Telink Co., Ltd.	100.00%
SK Broadband Co., Ltd. (*3)	Korea	Wire communications	SK Telecom Co., Ltd.	74.34%
Home&Service Co., Ltd.	Korea	Information and communication facilities	SK Broadband Co., Ltd.	100.00%
Broadband Nowon Broadcasting Corporation	Korea	management business Broadcasting business	SK Telecom Co., Ltd.	55.00%
SK Stoa Co., Ltd.	Korea	Other resale communication business	SK Telecom Co., Ltd.	100.00%
PS&Marketing Corp	Korea	Resale communication business	SK Telecom Co., Ltd.	100.00%
Serviceace Co., Ltd.	Korea	Call center and telemarketing business	SK Telecom Co., Ltd.	100.00%
Service Top Co., Ltd.	Korea	Call center and telemarketing business	SK Telecom Co., Ltd.	100.00%
SK O&S Co., Ltd.	Korea	Maintenance management	SK Telecom Co., Ltd.	100.00%
One store Co., Ltd.	Korea	Telecommunication service	SK Telecom Co., Ltd.	52.06%
SK Communications Co., Ltd.	Korea	Internet portal service	SK Telecom Co., Ltd.	100.00%
11street Co., Ltd.	Korea	E-commerce	SK Telecom Co., Ltd.	80.30%
Life & Security Holdings Co., Ltd.	Korea	Holding company	SK Telecom Co., Ltd.	55.00%
ADT Caps Co., Ltd.	Korea	Automatic security	Life & Security Holdings Co., Ltd.	100.00%
CAPSTEC Co., Ltd.	Korea	Manned security	Life & Security Holdings Co., Ltd.	100.00%
Quantum Innovation Private Equity Joint Venture I	Korea	Investment	SK Telecom Co., Ltd.	59.90%
SK Infosec Co., Ltd.	Korea	Information security service	SK Telecom Co., Ltd.	100.00%
SK infosec Information Technology (Wuxi) Co., Ltd.	China	System software development and supplying	SK Infosec Co., Ltd.	100.00%
SK Planet Co., Ltd.	Korea	Telecommunication service and system software development and supplying	SK Telecom Co., Ltd.	98.65%
SK M & Service Co., Ltd.	Korea	Internet website service	SK Planet Co., Ltd.	100.00%
SK Planet Global Holdings Pte. Ltd.	Singapore	Holding company	SK Planet Co., Ltd.	100.00%
SKP America, LLC	USA	Digital contents sourcing and presenting	SK Planet Co., Ltd.	100.00%
K-Net Culture & Contents Venture Fund	Korea	Investment fund	SK Planet Co., Ltd.	59.00%
SK Telecom China Holding Co., Ltd.	China	Holding company	SK Telecom Co., Ltd.	100.00%
SK Global Healthcare Business Group, Ltd.	Hong Kong	Investment	SK Telecom Co., Ltd.	100.00%
SKT Americas, Inc.	USA	Management consulting	SK Telecom Co., Ltd.	100.00%
VTK Investment 1 td	Courses	and information gathering Investment	SK Talaaam Caulta	100.00%
YTK Investment, Ltd. Atlas Investment, Ltd.	Cayman Cayman	Investment	SK Telecom Co., Ltd.	100.00%
SK Telecom Innovation Fund, L.P.	USA	Investment	SK Telecom Co., Ltd. Atlas Investment, Ltd.	100.00%
SK Telecom China Fund I L.P.	Cayman	Investment	Atlas Investment, Ltd.	100.00%
SK Telecom TMT investment Corp.	USA	Investment	SK Telecom Co., Ltd.	100.00%
Dreamus Company Co., Ltd.	Korea	Video and audio equipment	SK Telecom Co., Ltd.	51.44%
		manufacturing		
Iriver Enterprise Ltd.	Hong Kong	Chinese subsidiary management	Dreamus Company Co., Ltd.	100.00%
Iriver China Co., Ltd.	China	MP3,4 production and sales	Iriver Enterprise, Ltd.	100.00%
Dongguan iriver Electronics Co., Ltd.	China	Electronic book production and sales	Iriver Enterprise, Ltd.	100.00%
Life Design Company Japan Inc. SK Telecom Japan Inc.	Japan Japan	Japan goods sales	Dreamus Company Co., Ltd. SK Telecom Co., Ltd.	100.00% 100.00%
SK telecom Japan Inc.	Japan	Management consulting and information gathering	SK Telecom Co., Etd.	100.00 %
SK Planet Japan, K. K.	Japan	Digital contents sourcing and presenting	SK Telecom Japan Inc.	79.78%
Id Quantique SA	Swiss	Quantum information and commutication	SK Telecom Co., Ltd.	66.80%
ld Quantique Ltd.	Korea	business Quantum information and commutication	ld Quantique SA	100.00%
		business		
FSK L&S Co., Ltd.	Korea	Cargo transport shipment and Logistics consulting project	SK Telecom Co., Ltd.	60.00%
FSK L&S (Shanghai) Co., Ltd.	China	Transportation industry	FSK L&S Co., Ltd.	100.00%
FSK L&S(Hungary) Co., Ltd.	Hungary	Transportation industry	FSK L&S Co., Ltd.	100.00%
FSK L&S Vietnam Co., Ltd.	Vietnam	Transportation industry	FSK L&S Co., Ltd.	100.00%
Incross Co., Ltd. (*2)	Korea	Media agency	SK Telecom Co., Ltd.	34.60%
Infra Communications Co., Ltd.	Korea	Service operation business	Incross Co., Ltd.	100.00%
Mindknock Co., Ltd.	Korea	Software development	Incross Co., Ltd.	100.00%
Happy Hanool Co., Ltd.	Korea Nothorlanda	Service	SK Telecom Co., Ltd.	100.00%
SK MENA Investment B.V. SK Latin America Investment S.A.	Netherlands Spain	Investment Investment	SK Telecom Co., Ltd. SK Telecom Co., Ltd.	100.00% 100.00%
SK Technology Innovation Company	Cayman	Research and development	SK Telecom Co., Ltd.	96.88%
SK Networks Co., Ltd. (*2)	Korea	Distribution and trading business	SK Holdings Co., Ltd.	39.14%
SK Networks Service Co., Ltd.	Korea	Communications equipment repair service	SK Networks Co., Ltd.	86.50%
SK Pinx Co., Ltd.	Korea	repair service Golf club operating	SK Networks Co., Ltd.	100.00%
SK Magic Co., Ltd.	Korea	Goir club operating Household appliances manufacturing,	SK Networks Co., Ltd. SK Networks Co., Ltd.	100.00%
Strings Oo, Ed.	10164	sales and rent	Statistical Col, Ed.	100.0076
SK Magic Service Co., Ltd.	Korea	House appliances repair and others	SK Magic Co., Ltd.	100.00%
SK Magic Vietnam Company Limited	Vietnam	Household appliances sales and rent	SK Magic Co., Ltd.	100.00%
SK Networks Retails Malaysia Sdn. Bhd.	Malaysia	Household appliances sales and rent	SK Magic Co., Ltd.	100.00%
SK Rent-a-Car Co., Ltd.	Korea	Car rental	SK Networks Co., Ltd.	64.23%
SK Rent-a-Car Service Co., Ltd.	Korea	Business support services	SK Rent-a-Car Co., Ltd.	100.00%

				Equity Ownership
Subsidiaries SK Networks (China) Holdings Co., Ltd.	Domicile China	Principal business activity Holding company	The largest shareholders SK Networks Co., Ltd.	<u>(*1)</u> 100.00%
Liaoning SK Networks Real Industrial Estate Development Co., Ltd.	China	Real estate development	SK Networks (China) Holdings Co., Ltd.	100.00%
Shenyang SK Bus Terminal Co., Ltd.	China	Bus terminal business	SK Networks (China) Holdings Co., Ltd.	75.00%
SK Networks (Liaoning) Logistics Co., Ltd.	China	Distribution and logistics	SK Networks (China) Holdings Co., Ltd.	100.00%
SK Networks (Dandong) Energy Co., Ltd.	China	Petroleum sales	SK Networks (China) Holdings Co., Ltd.	100.00%
Shenyang SK Networks Energy Co., Ltd.	China	Petroleum sales	SK Networks Co., Ltd.	100.00%
SK (GZ FreeZone) Co., Ltd.	China	Trading business	SK Networks Co., Ltd.	100.00%
SK Networks (Shanghai) Co., Ltd.	China	Trading business	SK Networks Co., Ltd.	100.00%
POSK (Pinghu) Steel Processing Center Co., Ltd.	China	Steel processing and sales	SK Networks Co., Ltd.	80.00%
SK Networks Hong Kong Ltd.	Hong Kong	Trading business	SK Networks Co., Ltd.	100.00%
SK (Guangzhou) Metal Co., Ltd.	China	Steel processing and sales	SK Networks Hong Kong Ltd.	100.00%
SK Networks (Xiamen) Steel Processing Center Co., Ltd.	China	Steel processing and sales	SK Networks Hong Kong Ltd.	100.00%
SK Networks Japan Co., Ltd.	Japan	Trading business	SK Networks Co., Ltd.	100.00%
SK Networks Deutschland GmbH Daiyang SK Networks SAN. VE TIC. Ltd. STI (*5)	Germany	Trading business	SK Networks Co., Ltd.	100.00% 51.22%
SK Networks Resources Australia Pty. Ltd.	Turkey Australia	Steel processing and sales Resource development	SK Networks Co., Ltd. SK Networks Co., Ltd.	100.00%
SK Networks Middle East FZE	UAE	Trading business	SK Networks Co., Ltd.	100.00%
SK BRASIL LTDA	Brazil	Trading business	SK Networks Co., Ltd.	100.00%
SK Networks Trading Malaysia Sdn Bhd	Malaysia	Trading business	SK Networks Co., Ltd.	100.00%
SK Networks America, Inc.	USA	Trading business	SK Networks Co., Ltd.	100.00%
SK NETWORKS BRASIL INTERMEDIACAO DE NEGOCIOS LTDA.	Brazil	Trading business	SK Networks Co., Ltd.	100.00%
Networks Tejarat Pars	Iran	Trading business	SK Networks Co., Ltd.	100.00%
SKC Co., Ltd. (*2)	Korea	Petrochemicals manufacturing	SK Holdings Co., Ltd.	41.00%
Woori Fine Chem Co., Ltd.	Korea	Petrochemicals manufacturing	SKC Co., Ltd.	100.00%
SK Telesys Co., Ltd.	Korea	Communications equipment	SKC Co., Ltd.	79.39%
		manufacturing and sales		
Techdream Co., Ltd.	Hong Kong	Semiconductor component	SK Telesys Co., Ltd.	100.00%
SKC INFRA SERVICE CO., Ltd.	Korea	Electric work business and	SK Telesys Co., Ltd.	100.00%
SKC Solmics Co., Ltd.	Korea	Information communication business Semiconductor component	SKC Co., Ltd.	57.70%
Solmics Taiwan Co., Ltd.	Taiwan	manufacturing Semiconductor component distribution	SKC Solmics Co., Ltd.	100.00%
Solmics Shanghai Co., Ltd.	China	Semiconductor component distribution	SKC Solmics Co., Ltd.	100.00%
SKC Solmics Hong kong Co., Ltd.	Hong Kong	SPC	SKC Solmics Co., Ltd.	100.00%
SKC Semiconductor Materials (Wuxi) Co., Ltd.	China	Semiconductor material cleaning	SKC Solmics Co., Ltd.	100.00%
SKC-Eco Solution Co., Ltd.	Korea	Film manufacturing	SKC Co., Ltd.	100.00%
SKC (Jiangsu) High tech Plastics Co., Ltd.	China	Film manufacturing	SKC Co., Ltd.	100.00%
SKC, Inc. SKC Europe GmbH	USA Germany	Manufacturing Sales	SKC Co., Ltd. SKC Co., Ltd.	100.00% 100.00%
SK Bioland Co., Ltd. (*2)	Korea	Manufacturing	SKC Co., Ltd.	27.94%
Bioland Biotec Co., Ltd.	China	Research and manufacturing	SK Bioland Co., Ltd.	100.00%
Bioland Haimen Co., Ltd.	China	Manufacturing	SK Bioland Co., Ltd.	100.00%
SKC Hi-Tech&Marketing Co., Ltd.	Korea	Film manufacturing	SKC Co., Ltd.	100.00%
SKC Hi-Tech&Marketing (Suzhou) Co., Ltd. SKC Hi-Tech&Marketing Taiwan Co., Ltd.	China Taiwan	Film manufacturing Film manufacturing	SKC Hi-Tech&Marketing Co., Ltd. SKC Hi-Tech&Marketing Co., Ltd.	100.00% 100.00%
SKC Hi-Tech&Marketing Polska SP.Z.O.O	Poland	Film manufacturing	SKC Hi-Tech&Marketing Co., Ltd.	100.00%
SKC Hi-Tech&Marketing USA LLC	USA	Film manufacturing	SKC Hi-Tech&Marketing Co., Ltd.	100.00%
SKC PU Specialty Co., Ltd.	Hong Kong	Special purpose company	SKC Co., Ltd.	100.00%
SKC (Nantong) PU Specialty Co., Ltd.	China	Eletronic materials manufacturing	SKC PU Specialty Co., Ltd.	100.00% 75.10%
SKC-ENF Electronic Materials Ltd. SKC (Nantong) Semiconductor Materials Technology Co., Ltd.	Hong Kong China	Special purpose company Eletronic materials manufacturing	SKC Co., Ltd. SKC-ENF Electronic Materials Ltd.	100.00%
SE (JIANGSU) Electronic Materials Co., Ltd.	China	Sales of raw chemical materials and chemical products related to	SKC-ENF Electronic Materials Ltd.	100.00%
SK PICGlobal Co., Ltd.	Korea	semiconductor Petrochemicals sales	SKC Co., Ltd.	51.00%
SKCFTH Co., Ltd.	Korea	Professional, scientific	SKC Co., Ltd.	100.00%
	Rored	technology services	610 00., Ed.	100.0070
SK Nexilis Co., Ltd. (Formerly, KCF Technologies Co., Ltd.)	Korea	Manufacturing	SKCFTH Co., Ltd.	100.00%
SK E&S Co., Ltd.	Korea	City gas business and power	SK Holdings Co., Ltd.	90.00%
		generation		100.000/
Kangwon City Gas Co., Ltd. Yeongnam Energy Service Co., Ltd.	Korea Korea	City gas business City gas business	SK E&S Co., Ltd. SK E&S Co., Ltd.	100.00% 100.00%
Ko-one Energy Service Co., Ltd.	Korea	City gas business	SK E&S Co., Ltd.	100.00%
Narae Energy Service Co., Ltd. (*6)	Korea	Integrated energy service	SK E&S Co., Ltd.	100.00%
(Formerly, Wirye Energy Services Co., Ltd.)				
Pusan City Gas Co., Ltd.	Korea	City gas business	SK E&S Co., Ltd.	67.32%
Jeonbuk Energy Service Co., Ltd. Chonnam City Gas Co., Ltd.	Korea Korea	City gas business City gas business	SK E&S Co., Ltd. SK E&S Co., Ltd.	100.00% 100.00%
Chungcheong Energy Service Co., Ltd.	Korea	City gas business	SK E&S Co., Ltd.	100.00%
Paju Energy Service Co., Ltd.	Korea	Energy business	SK E&S Co., Ltd.	51.00%
Yeoju Energy Service Co., Ltd.	Korea	Energy business	SK E&S Co., Ltd.	100.00%
Jeonnam Offshore Wind Power Co., Ltd.	Korea	New regeneration project	SK E&S Co., Ltd.	100.00%
Shinanjeungdo Sunlight Co., Ltd. SK E&S Hong Kong Co., Ltd.	Korea Hong Kong	New regeneration project City gas business	SK E&S Co., Ltd. SK E&S Co., Ltd., Pusan City Gas Co., Ltd.	100.00% 100.00%
SK E&S Australia Pty. Ltd.	Australia	Resource development	SK E&S Co., Ltd.	100.00%
SK E&S Ameriacas, Inc.	USA	Holding company	SK E&S Co., Ltd.	100.00%
SK E&S LNG, LLC	USA	Liquefied natural gas sales	SK E&S Americas, Inc.	100.00%
DewBlaine Energy, LLC	USA USA	Resource development	SK E&S Americas, Inc. SK E&S Americas, Inc.	100.00% 100.00%
CAILIP Gas Marketing, LLC Rnes Holdings, LLC	USA	LNG sales and purchase Renewable / electric power business	SK E&S Americas, Inc. SK E&S Americas, Inc.	100.00%
Storage Solution Holdings, LLC	USA	Electric power business	Rnes Holdings, LLC	100.00%
CAES, LLC	USA	Electric power business	Storage Solution Holdings, LLC	100.00%
Prism Energy International China Limited.	China	Liquefied natural gas sales	SK E&S Co., Ltd.	100.00%
Prism Energy International Zhoushan Limited. Prism Energy International Pte. Ltd.	China Singapore	Liquefied natural gas sales Liquefied natural gas sales	Prism Energy International China Limited. SK E&S Co., Ltd.	100.00% 100.00%
Fism Energy International Pte. Ltd.	Singapore	Liquefied natural gas sales	Prism Energy International Pte. Ltd.	100.00%
Prism Energy International Hong Kong, Ltd.	Hong Kong	Liquefied natural gas sales	Prism Energy International Pte. Ltd.	100.00%
PT Prism Nusantara International	Indonesia	Liquefied natural gas sales	SK E&S Co., Ltd.	100.00%
SK E&S Dominicana S.R.L	Dominica	Liquefied natural gas sales	SK E&S Co., Ltd.	100.00%
	Korea	Construction	SK Holdings Co., Ltd.	44.48% 19.90%
SK Engineering & Construction Co., Ltd. (*2) Seosuwon Development Company (*2)		Real estate development		
SK Engineering & Construction Co., Ltd. (*2) Seosuwon Development Company (*2)	Korea	Real estate development and construction	SK Engineering & Construction Co., Ltd.	
Seosuwon Development Company (*2) SK TNS Co., Ltd. (*4)	Korea Korea	and construction Construction and services	SK Engineering & Construction Co., Ltd.	100.00%
Seosuwon Development Company (*2)	Korea	and construction		100.00% 100.00% 100.00%

Subsidiaries	Domicile	Principal business activity	The largest shareholders	Equity ownership (*1)
Thai Woo Ree Engineering Co., Ltd.	Thailand	Construction	SKEC (Thai), Ltd.	99.77%
SKEC Anadolu EC, LLC	Turkey	Construction	SK Engineering & Construction Co., Ltd.	100.00%
SK E&C Betek Corporation	USA	Real estate development and construction	SK Engineering & Construction Co., Ltd.	100.00%
Mesa Verde RE Ventures, LLC	USA	Real estate development	SK E&C Betek Corporation	100.00%
SKEC Consultores Ecquador, S.A	Ecuador	Construction	SK Engineering & Construction Co., Ltd.	100.00%
Sunlake Co., Ltd.	Canada	Construction and services	SK Engineering & Construction Co., Ltd. SK Engineering & Construction Co., Ltd.	100.00%
SK HOLDCO PTE. LTD. Silvertown Investco Limited.	Singapore UK	Holding company Construction	SK Engineering & Construction Co., Ltd.	63.51% 100.00%
SK Materials Co., Ltd. (*2)	Korea	Special gas manufacturing and sales	SK Holdings Co., Ltd.	49.10%
SK Materials Japan Co., Ltd.	Japan	Special gas sales	SK Materials Co., Ltd.	95.00%
SK Materials Taiwan Co., Ltd.	Taiwan	Special gas sales	SK Materials Co., Ltd.	100.00%
SK Materials Jiangsu Co., Ltd.	China	Special gas manufacturing and sales	SK Materials Co., Ltd.	100.00%
SK Materials (Xian) Co., Ltd.	China	Trading business and	SK Materials Co., Ltd.	100.00%
SK Airgas Co., Ltd.	Korea	warehouse operation Industrial gas sales	SK Materials Co., Ltd.	100.00%
SK Tri Chem Co., Ltd.	Korea	Manufacturing and sales of	SK Materials Co., Ltd.	65.00%
,		precursors and others		
SK Showa Denko Co., Ltd.	Korea	Sales of raw chemical materials and	SK Materials Co., Ltd.	51.00%
		chemical products related to semiconductor		
SK Materials (Shanghai) Co., Ltd.	China	Special gas sales	SK Materials Co., Ltd.	100.00%
Happy Companion Co., Ltd.	Korea	Cleaning, Laundry service	SK Materials Co., Ltd.	100.009
HANYU CHEMICAL CO., LTD.	Korea	Industrial gas manufacturing	SK Materials Co., Ltd.	80.00
SK Materials Performance Co., Ltd.	Korea	Semiconductor materials	SK Materials Co., Ltd.	100.009
	14	manufacturing and selling		54.000
SK Siltron Co., Ltd.	Korea	Silicon wafer for electronic industry manufacturing and sales	SK Holdings Co., Ltd.	51.00%
SK Siltron America, Inc.	USA	Silicon wafer for electronic industry	SK Siltron Co., Ltd.	100.00%
	00/1	manufacturing and sales		100.007
SK Siltron Japan, Inc.	Japan	Silicon wafer for electronic industry	SK Siltron Co., Ltd.	100.00%
	<u></u>	manufacturing and sales		100.000
SK Siltron Shanghai Co., Ltd. SK Siltron USA Inc.	China	Silicon wafer for electronic industry Investment	SK Siltron Co., Ltd.	100.00% 100.00%
SK Siltron USA, Inc. SK Siltron CSS, LLC	USA USA	Silicon wafer for electronic industry	SK Siltron Co., Ltd. SK Siltron USA, Inc.	100.00%
	50/1	manufacturing and sales		100.007
Happyfilling Co., Ltd.	Korea	Service	SK Siltron Co., Ltd.	100.00%
SK Biopharmaceuticals Co., Ltd. (*7)	Korea	Medicine and life science	SK Holdings Co., Ltd.	75.00%
SK Life Science, Inc.	USA	Life science	SK Biopharmaceuticals Co., Ltd.	100.00%
SK Bio-Pharma Tech (Shanghai) Co., Ltd. SK S.E.Asia Pte. Ltd.	China	Life science	SK Biopharmaceuticals Co., Ltd.	100.00% 100.00%
Essencore Limited	Singapore Hong Kong	Investment Manufacturing and distribution of	SK Holdings Co., Ltd. SK S.E.Asia Pte. Ltd.	100.009
	riong riong	semiconductor modules		100.007
Essencore (ShenZhen) Limited	China	Consulting for computer	Essencore Limited	100.00%
		system integration		00.400
SK China Company, Ltd. SKY Property Mgmt (Beijing) Co., Ltd.	Hong Kong China	Consulting and investment Real estate management	SK Holdings Co., Ltd. SK China Company, Ltd.	88.13% 100.00%
SK Bio Energy Hong Kong Co., Ltd.	Hong Kong	Biomass electricity generation	SK China Company, Ltd.	69.40%
SK Property Investment Management Co., Ltd.	Hong Kong	Real estate investment	SK China Company, Ltd.	100.00%
SK Industrial Development China Co., Ltd.	Hong Kong	Investment	SK China Company, Ltd.	100.00%
Beijing Lizhi Weixin Technology Co., Ltd.	China	Investment	SK China Company, Ltd.	100.00%
Shanghai SKY Real Estate Development Co., Ltd.	China	Real estate investment	SK Industrial Development China Co., Ltd.	100.00%
SK China Investment Management Co., Ltd.	Hong Kong	Real estate investment	SK China Company, Ltd.	100.00%
SK International Agro-Products Logistics Development Co., Ltd. SK International Agro-Sideline Products Park Co., Ltd.	Hong Kong China	Agriculture product logistics Agriculture product logistics	SK China Investment Management Co., Ltd. SK International Agro-Products Logistics	100.00% 76.00%
		· ·3········ · ·····3·····	Development Co., Ltd.	
SK Auto Service Hong Kong Co., Ltd.	Hong Kong	Holding company	SK China Company, Ltd.	100.00%
SK (Shenyang) auto rental Co., Ltd.	China	Car rental	SK Auto Service Hong Kong Co., Ltd.	100.00%
SK (Beijing) auto rental Co., Ltd.	China	Car rental	SK Auto Service Hong Kong Co., Ltd.	100.009
SK Rent-A-Car (Qingdao) Co., Ltd.	China	Car rental	SK Auto Service Hong Kong Co., Ltd.	100.009
Skyline Auto Financial Leasing Co., Ltd.	Hong Kong	Investment Financial lease	SK Auto Service Hong Kong Co., Ltd. Skyline Auto Financial Leasing Co., Ltd.	100.00% 100.00%
SK Financial Leasing Co., Ltd. SK China (Beijing) Co., Ltd.	China China	Consulting	SK China Company, Ltd.	100.009
SKY Property Management Ltd.	Virgin	Investment	SK China Company, Ltd.	100.009
	Islands			
SKY Investment Co., Ltd.	China	Real estate management	SKY Property Management Ltd.	100.00%
SK China Real Estate Co., Ltd.	Hong Kong	Real estate investment	SKY Property Management Ltd.	100.00%
SK China Creative Industry Development Co., Ltd.	China	Service	SKY Property Management Ltd.	100.009
SK C&C Beijing Co., Ltd.	China	Consulting for computer system integration and others	SK Holdings Co., Ltd.	100.00%
SK C&C Chengdu Co., Ltd.	China	Consulting for computer	SK C&C Beijing Co., Ltd.	100.00%
		system integration and others		
SK C&C India Pvt. Ltd.	India	Consulting for computer system integration and others	SK Holdings Co., Ltd.	100.00%
S&G Technology	Saudi	System integration and others Consulting for computer	SK Holdings Co., Ltd.	51.00%
and resultingy	Arabia	system integration and others	errinango oo., Eta.	51.007
Saturn Agriculture Investment Co., Ltd.	Hong Kong	Investment	SK Holdings Co., Ltd.	81.00%
SK Investment Management Co., Ltd.	Hong Kong	Investment	SK Holdings Co., Ltd.	100.00%
SK Semiconductor Investments Co., Ltd.	Hong Kong	Investment management	SK Investment Management Co., Ltd.	100.009
Gemini Partners Pte. Ltd.	Singapore	Consulting	SK Holdings Co., Ltd., SK Innovation Co., Ltd., SK Telecom Co., Ltd., and SK E&S Co., Ltd.	80.00%
Solaris Partners Pte. Ltd.	Singapore	Consulting	Gemini Partners Pte. Ltd.	100.00%
Solaris GEIF Investment	USA	Investment	Solaris Partners Pte. Ltd.	100.00%
SK GI Management	Cayman	Investment	SK Holdings Co., Ltd.	100.00%
Plutus Capital NY, Inc.	USA	Investment	SK Holdings Co., Ltd.	100.009
Hudson Energy NY, LLC	USA	Investment	Plutus Capital NY, Inc.	50.139
Hudson Energy NY II, LLC	USA	Investment	Plutus Capital NY, Inc.	50.00%
Hudson Energy NY III, LLC	USA	Investment	Plutus Capital NY, Inc.	50.50%
Plutus Fashion NY, Inc.	USA	Fashion	SK Holdings Co., Ltd.	100.009
Wonderland NY, Inc.	USA	Investment	Plutus Fashion NY, Inc.	100.009
Atlas NY LLC SK South East Asia Investment Pte. Ltd.	USA Singapore	Investment Investment	Plutus Fashion NY, Inc. SK Holdings Co., Ltd., SK Innovation Co., Ltd.,	61.249 80.009
שונה שמו המו המו וויישאווופוון דופ. בוע.	Singapore	myosunoni	SK Telecom Co., Ltd., SK Innovation Co., Ltd., SK Telecom Co., Ltd. and SK E&S Co., Ltd.	30.00%
SK Investment Vina I Pte. Ltd.	Singapore	Investment	SK South East Asia Investment Pte. Ltd.	50.01%
SK Investment Vina II Pte. Ltd.	Singapore	Investment	SK South East Asia Investment Pte. Ltd.	50.019
SK Investment Vina III Pte. Ltd.				
SK Investment Vina III Pte. Ltd. SK Pharmteco Inc.	Singapore USA	Investment Investment	SK South East Asia Investment Pte. Ltd. SK Holdings Co., Ltd.	100.00% 100.00%
SK Pharmteco Inc. SK Biotek Co., Ltd.	Korea	Investment Drug medicine	SK Holdings Co., Ltd. SK Pharmteco Inc.	100.00%
SK BIOTEK IRELAND LIMITED	Ireland	Pharmaceutical manufacturing	SK Pharmteco Inc.	100.00%

Subsidiaries	Domicile	Principal business activity	The largest shareholders	Equity ownership (*1)
SK BIOTEK USA, Inc.	USA	Medicine and life science	SK Pharmteco Inc.	100.00%
Abrasax Investment Inc.	USA	Investment	SK Pharmteco Inc.	100.00%
Fine Chemicals Holdings Corp.	USA	Investment	Abrasax Investment Inc.	100.00%
AMPAC Fine Chemicals, LLC	USA	Drug medicine	Fine Chemicals Holdings Corp.	100.00%
AMPAC Fine Chemicals Texas, LLC	USA	Drug medicine	AMPAC Fine Chemicals, LLC	100.00%
AMPAC Fine Chemicals Virginia, LLC	USA	Drug medicine	AMPAC Fine Chemicals, LLC	100.00%
Golden Pearl EV Solutions Limited	Hong Kong	Investment	SK Holdings Co., Ltd.	100.00%
Socar Mobility Malaysia, Sdn. Bhd. (*8)	Malaysia	Car sharing service	SK Holdings Co., Ltd.	79.43%
Future Mobility Solutions Sdn. Bhd.	Malaysia	Online brokerage services for car rental	Socar Mobility Malaysia, Sdn. Bhd.	100.00%
PT Future Mobility Solutions	Indonesia	Online brokerage services for car rental	Socar Mobility Malaysia, Sdn. Bhd.	100.00%
SK Forest Co., Ltd.	Korea	Landscaping and planting business	SK Holdings Co., Ltd.	100.00%
Hweechan Co., Ltd.	Korea	Condo, Resort operation	SK Holdings Co., Ltd.	100.00%

- (*1) The equity ownership is based on ordinary shares and includes indirect investments held by the consolidated subsidiaries.
- (*2) SK Innovation Co., Ltd. and 8 other companies are included in the interim condensed consolidated financial statements as the Company is able to exercise de facto control. The remaining voting rights of SK Innovation Co., Ltd. and 8 other companies are widely dispersed, so it is determined that the Company has voting rights to exercise de facto control.
- (*3) The equity ownership has decreased due to the new shares from merger issued as consideration transferred from business combination (see Note 35).
- (*4) The Group owns 100% of the ordinary shares of SK TNS Co., Ltd. but holds 73.1% of equity ownership respectively, due to the issuance of its preferred shares having voting rights.
- (*5) The assets and liabilities of Daiyang SK Networks SAN. VE TIC. Ltd. STI are classified as assets and liabilities held for sale (see Note 29 Non-current assets and non-current liabilities classified as held for sale).
- (*6) Wirye Energy Services Co., Ltd. (formerly) and Narae Energy Services Co., Ltd. (formerly), the subsidiaries of the Group, merged on January 1, 2020, and Narae Energy Services Co., Ltd. became the surviving entity after the merger.
- (*7) During the current reporting period, the equity ownership fell due to the sale of old shares and non-proportional capital increase with consideration.
- (*8) The entity was changed from a joint venture to a subsidiary due to the purchase of old shares from existing shareholders.

1.3 Changes in consolidated subsidiaries

Changes in the consolidated subsidiaries for the six months ended June 30, 2020 are as follows:

December 31, 2019	Inclusion	Exclusion	June 30, 2020
288	18	4	302

For the six months ended June 30, 2020, subsidiaries newly included in consolidation are as follows:

Subsidiaries	Reasons for changes				
Super Seed NY, LLC	Establishment				
SKC Semiconductor Materials (Wuxi) Co., Ltd.	(11 companies)				
SK PICGlobal Co., Ltd.					
SKCFTH Co., Ltd.					
Jeonnam Offshore Wind Power Co., Ltd.					
SK Materials Performance Co., Ltd. and two other companies					
SK Future Energy(Shanghai) Co.,Ltd.					
FSK L&S Vietnam Co., Ltd.					
SK Investment Vina III Pte. Ltd.					
SK Nexilis Co., Ltd. (Formerly, KCF Technologies Co., Ltd.)	Acquisition				
Broadband Nowon Broadcasting Corporation	(7 companies)				
Shinanjeungdo Sunlight Co., Ltd.					
Beijing Lizhi Weixin Technology Co., Ltd					
Socar Mobility Malaysia, Sdn. Bhd.					
Future Mobility Solutions Sdn. Bhd.					
PT Future Mobility Solutions					

For the six months ended June 30, 2020, subsidiaries excluded from consolidation are as follows:

Subsidiaries	Reasons for changes
Mokgam Service	Disposal
	(1 company)
Shandong SK Hightech Oil Co., Ltd.	Loss of control
	(1 company)
Narae Energy Services Co., Ltd. (formerly)	Merge
ADT Security Co., Ltd.	(2 companies)

1.4 Condensed financial information of significant consolidated subsidiaries

Details of condensed financial information of the significant subsidiaries as of and for the six months ended June 30, 2020 are as follows (Korean won in millions):

	Total	Total			Ne	et income
Subsidiaries	assets	liabilities		Sales		(loss)
SK Innovation Co., Ltd.	₩17,246,642	₩ 3,360,756	₩	2,635,712	₩	1,443,665
SK Energy Co., Ltd.	13,717,826	10,049,406		10,862,109		(1,342,569)
SK Global Chemical Co., Ltd.	5,527,919	2,644,885		3,688,749		(117,221)
SK Incheon Petrochem Co., Ltd.	4,844,066	3,175,694		2,429,327		(506,333)
SK Trading International Co., Ltd.	1,073,194	289,007		3,924,484		186,878
SK Lubricants Co., Ltd.	2,224,079	1,351,705		988,965		60,131
SK Global Chemical International Trading (Shanghai) Co., Ltd.	215,941	179,369		518,673		8,114
SK Energy International Pte. Ltd.	1,906,588	1,149,614		9,094,331		7,962
SK Energy Americas, Inc.	94,249	7,819		1,670,080		6,073
SK Energy Europe, Ltd.	288,453	200,884		694,940		5,933
SK Telecom Co., Ltd.	30,738,752	13,265,810		5,862,677		574,742
SK Broadband Co., Ltd.	5,629,254	3,064,665		1,741,112		67,838
PS&Marketing Corp.	437,681	228,707		650,336		(5,061)
SK Planet Co., Ltd.	544,117	223,035		126,640		3,681
Life & Security Holdings Co., Ltd. (*1)	2,663,331	2,373,579		474,400		(303)
SK Networks Co., Ltd.	6,617,158	4,630,692		4,118,046		39,088
SK Magic Co., Ltd.	912,882	627,255		489,997		34,156
SK Rent-a-Car Co., Ltd.	1,885,793	1,529,526		424,277		11,284
SKC Co., Ltd.	3,135,391	1,141,625		307,817		498,150
SK E&S Co., Ltd.	6,364,854	2,882,427		319,326		1,290,318
Yeongnam Energy Service Co., Ltd.	370,102	158,355		356,422		14,041
Ko-one Energy Service Co., Ltd.	629,700	288,763		586,219		16,541
Pusan City Gas Co., Ltd.	1,133,170	306,284		548,379		171,083
Chungcheong Energy Service Co., Ltd.	278,354	151,996		284,766		15,052
Paju Energy Service Co., Ltd.	1,752,378	1,127,031		499,538		48,049
Narae Energy Service Co., Ltd. (formerly, Wirye Energy Services Co., Ltd.)	1,425,103	986,286		258,075		16,471
SK Engineering & Construction Co., Ltd.	5,035,506	4,198,102		3,809,606		76,319
SK TNS Co., Ltd.	278,820	247,078		242,338		8,246
SK Materials Co., Ltd. (*1)	1,859,687	1,300,446		439,788		76,721
SK Siltron Co., Ltd. (*1)	3,314,558	2,337,117		833,589		102,071
SK Biopharmaceuticals Co., Ltd.	744,420	241,675		53,893		(87,305)

(*1) The condensed financial information is consolidated financial information.

1.5 Disclosure of significant non-controlling interests in subsidiaries

Information about significant non-controlling interests in subsidiaries as of and for the six months ended June 30, 2020 is as follows (Korean won in millions):

			June 30, 2	2020		
						SK Engineering&
	SK Innovation		SK Networks	SKC	SK E&S	Construction
	<u>Co., Ltd.</u>	Co., Ltd.	<u>Co., Ltd.</u>	Co., Ltd.	Co., Ltd.	<u>Co., Ltd.</u>
Percentage of the non-controlling ownership	63.05%	70.43%	55.57%	56.55%	10.00%	53.79%
Current assets	₩ 15,044,771	₩ 8,261,328	₩ 3,100,951 ₩	1,433,944 ₩	3,389,006	₩ 3,585,524
Non-current assets	24,219,916	37,695,822	6,367,081	4,332,073	8,103,445	2,091,659
Current liabilities	11,621,735	7,435,399	4,074,649	1,598,985	2,675,906	3,732,436
Non-current liabilities	11,810,568	14,505,028	3,124,720	1,952,650	4,018,023	886,927
Net assets	15,832,384	24,016,723	2,268,663	2,214,382	4,798,522	1,057,820
Book value of the non-controlling interests	10,448,433	16,383,048	1,327,251	1,333,396	2,340,804	722,475
Sales	18,362,579	9,053,209	5,308,091	1,313,443	3,156,503	4,496,522
Net income (loss)	(1,897,989)	739,001	102,648	93,914	1,155,211	151,972
Total comprehensive income (loss)	(1,737,716)	996,705	105,684	104,410	1,275,228	157,832
Net income (loss) of the non- controlling interests	(1,202,229)	477,512	427	17,850	159,777	51,515
Total comprehensive income (loss) of the non-controlling interests	(1,125,323)	639,092	(2,701)	27,829	169,914	94,104
Net cash flows from operating activities	1,117,339	2,884,728	(162,693)	67,118	(117,442) 51,075
Net cash flows from investing activities	(2,313,332)	(1,869,373)	1,100,960	(1,000,807)	1,448,605	(56,044)
Net cash flows from financing activities before dividends paid to the non- controlling interests	3,156,671	(324,478)	(605,929)	1,365,385	(87,480) 52,502
Dividends paid to the non- controlling interests	(90,928)	(472,681)) (16,703)	(23,814)	(156,733) (10,964)
Net increase in cash and cash equivalents	1,869,750	218,196	315,635	407,882	1,086,950	36,569

The aforementioned condensed financial information is consolidated financial information of each subsidiary and non-controlling interests include hybrid bonds.

2. Basis of preparation and summary of significant accounting policies

2.1 Basis of preparation

The Group prepares statutory interim condensed consolidated financial statements in the Korean language in accordance with KIFRS 1034 *Interim Financial Reporting* enacted by the *Act on External Audit of Stock Companies*. The accompanying interim condensed consolidated financial statements have been translated into English from the Korean language financial statements. In the event of any differences in interpreting the financial statements or the independent auditors' review report thereon, the Korean version, which used for regulatory reporting purposes, shall prevail.

The interim condensed consolidated financial statements do not include all the information and disclosures required in the annual financial statements, and should be read in conjunction with the Group's annual financial statements as of December 31, 2019.

The accompanying interim condensed consolidated financial statements are stated in Korean won, the currency of the country in which the Group is incorporated and operates. The translation of Korean won amounts into U.S. dollar amounts is included solely for the convenience of readers of the interim condensed consolidated financial statements and has been made at the rate of W1,200.7 to USD 1.00, the basic exchange rate in the Seoul Money Brokerage Service for cable transfers in Korean won on the last business day of the six months ended June 30, 2020. Such translations into U.S. dollars should not be converted as representations that the Korean won amounts could be converted into U.S. dollars at that or any other rate.

2.2 Significant accounting policies

The significant accounting policies used for the preparation of the accompanying the interim condensed consolidated financial statements as of and for the six months ended June 30, 2020, are the same as the accounting policies adopted for the preparation of consolidated financial statements as of and for the year ended December 31, 2019, except for adoption of new and revised KIFRSs applied in the current period, which are summarized below.

2.2.1 New and revised KIFRSs adopted in the current period

The Group has applied amendments to KIFRS issued that are mandatorily effective for accounting periods beginning on or after January 1, 2020.

KIFRS 1001 Presentation of Financial Statements and KIFRS 1008 Accounting Policies, Changes in Accounting Estimates and Errors (Amended)

The amendments align the definition of 'material' across the standards and clarify certain aspects of the definition. The new definition states that, 'information is material if omitting, misstating or obscuring it could reasonably be expected to influence decisions that the primary users of general purpose financial statements make on the basis of those financial statements, which provide financial information about a specific reporting entity. These amendments had no significant impact on the Group's financial position or management performance.

KIFRS 1103 Business Combination (Amended)

The amendment to KIFRS 1103 clarifies that to be considered a business, an integrated 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 output. Furthermore, it clarified that a business can exist without including all of the inputs and processes needed to create outputs. These amendments had no significant impact on the Group's financial position or management performance.

2.2.1 New and revised KIFRSs adopted in the current period (cont'd)

KIFRS 1107 Financial Instruments: Disclosures, KIFRS 1109 Financial Instruments, KIFRS 1039 Financial Instruments: Recognition and Measurements (Amended)

The amendments provide a number of reliefs, which apply to all hedging relationships that are directly affected by interest rate benchmark reform. A hedging relationship is affected if the reform gives rise to uncertainties about the timing and or amount of benchmark-based cash flows of the hedged item or the hedging instrument. These amendments had no significant impact on the Group's financial position or management performance.

KIFRS 1116 COVID-19 related Rent Concessions (Amended)

The amendment to KIFRS 1116 provides lessees with a practical expedient to elect not to assess whether rent concessions arising as a direct consequence of the COVID-19 pandemic constitutes a lease modification. Lessees may apply the practical expedient only if all conditions of the practical expedient are met and lessees that makes this election accounts for any change in lease payments resulting from the rent concessions the same way it would account for the change applying this standard if the change were not a lease modification. The amendment may be retrospectively applied to annual reporting periods beginning on or after June 1, 2020 and earlier application is permitted. The amendment had no significant impact on the Group's financial position or management performance.

2.2.2 New and revised KIFRS issued, but not yet effective

The Group has no new and revised KIFRSs that have been issued, but are not yet effective for this accounting periods.

3. Significant accounting judgements, estimates and assumptions

When preparing the interim condensed consolidated financial statements, management is required to make judgments, estimates and assumptions that affect the reported amount of assets, liabilities, revenues and expenses. Actual results may be different from those estimates.

Those accounting judgments made by management in the preparation of the interim condensed consolidated financial statements for the six months ended June 30, 2020, are consistent with those followed in the preparation of consolidated financial statements for the year ended December 31, 2019.

In order to prevent the spread of COVID-19, various prevention and control measures including restrictions on movement are being implemented worldwide, and as a result, the global economy is widely affected. In particular, the Group conducts operations in the petroleum refining, telecommunications, wholesale and retail, chemicals, construction and other industries, and the Group is exposed to the uncertainties of the market due to the impact of COVID-19. As of the end of the reporting period, uncertainties due to the effects of COVID-19 have not been resolved, and these uncertainties may have a significant impact on the financial performance and cash flows of the Group.

4. Operating segments

(1) Overview of operating segments

The Group makes decisions on resources to be allocated to business segments and divides the business segments based on the internal reports which the chief operating decision maker periodically reviews to evaluate the performances of the sales segments. Details of segment operations of each segment are as follows:

Operating segments	Business
SK Innovation Co., Ltd.	Refining, chemical, and resources development
SK Telecom Co., Ltd.	Telecommunication and security service
SK Networks Co., Ltd.	Information communication, rental and trade
SKC Co., Ltd.	Chemical, industry and mobility material business
SK E&S Co., Ltd.	Gas and energy
SK Engineering & Construction Co., Ltd.	Civil engineering, housing, plant and others
Others	IT services, special gas manufacturing and sale, medicine and life science and others

(2) Details of financial information for each operating segment as of and for the six months ended June 30, 2020 and 2019 are as follows (Korean won in billions):

	As of and for the six months ended June 30, 2020										
	SK	SK	SK			SK Engineering	Con	Consolidation			
	Innovation	Telecom	Networks	SKC	SK E&S	& Construction	adju				
	Co., Ltd.	Co., Ltd.	Co., Ltd.	Co., Ltd.	Co., Ltd.	Co., Ltd.	Others	(*1)	Total		
Total sales	₩ 18,363	₩ 9,053	₩ 5,308	₩ 1,313	₩ 3,157	₩ 4,497	₩ 4,211 ₩	(3,399)	₩ 42,503		
Internal sales	(339)) (154)) (734)) (129)	(81)	(310)	(1,652)	3,399	-		
Net sales	18,024	8,899	4,574	1,184	3,076	4,187	2,559	-	42,503		
Profit (loss) from continuing operations before income tax expense	(2,528)) 918	18	191	1,547	222	1,448	(2,523)	(707)		
Profit (loss) for the period from continuing operations	(1,898)) 739	14	131	1,155	152	1,157	(2,216)	(766)		
Total assets	39,265	45,957	9,468	5,766	11,492	5,677	40,963	(22,481)	136,107		
Total liabilities	23,432	21,940	7,199	3,552	6,694	4,619	14,143	1,340	82,919		
Depreciation	581	1,546	395	80	196	31	283	(15)	3,097		
Amortization	34	505	10	15	2	3	42	167	778		

	As of and for the six months ended June 30, 2019											
	SK	SK	SK			SK Engineering	Con	Consolidation				
	Innovation	Telecom	Networks	SKC	SK E&S	& Construction	adju					
	Co., Ltd.	Co., Ltd.	Co., Ltd.	Co., Ltd.	Co., Ltd.	Co., Ltd.	Others	(*1)	Total			
Total sales	₩ 25,952	₩ 8,772	₩ 6,101	₩ 1,210	₩ 3,531	₩ 3,986	₩ 4,266 ₩	(3,700) \	₩ 50,118			
Internal sales	(525)	(90)	(783)) (136)	(47)	(392)	(1,727)	3,700	-			
Net sales	25,427	8,682	5,318	1,074	3,484	3,594	2,539	-	50,118			
Profit (loss) from continuing operations before income tax expense	563	821	18	49	476	150	1,643	(1,542)	2,178			
Profit (loss) for the period from continuing operations	380	633	11	37	330	110	1,458	(1,484)	1,475			
Total assets	38,908	42,591	10,652	4,042	10,053	5,668	36,230	(19,618)	128,526			
Total liabilities	19,228	20,161	8,214	2,333	5,996	4,781	12,541	1,848	75,102			
Depreciation	504	1,437	404	66	205	32	232	14	2,894			
Amortization	59	467	9	4	2	3	32	163	739			

(*1) Consolidation adjustments of the parent company, excluding consolidation adjustments of each subsidiary.

4. Operating segments (cont'd)

(3) Details of financial information by geographical location as of and for the six months ended June 30, 2020 and 2019 (Korean won in billions):

		As of and for the six months ended June 30, 2020										
						North	Consolidation					
		Korea		Asia	Europe		America		Others adj		ustments	Total
Total sales	₩	52,647	₩	11,962	₩ 1,64	4	₩ 2,616	₩	40	₩	(26,406)₩	42,503
Operating profit (loss)		2,081		110	2	15	(60))	12		(2,919)	(731)
Profit (loss) from continuing operations before income tax expense		4,539		129	6	8	(107))	9		(5,345)	(707)
Profit (loss) for the period		4,085		110	6	33	(107))	7		(4,924)	(766)
Total assets Total liabilities		152,699 75,391		13,516 3,657	4,12 1,95		10,153 2,909		1,394 172		(45,784) (1,160)	136,107 82,919

		As of and for the six months ended June 30, 2019										
							Nort	h				
		Korea	A	Asia	Euro	pe	America		Others	Others adjustments		Total
Total sales	₩	63,318 🗄	₩	15,775	₩ 3	,560 ₹	₩ 2	,733 ₩	4	5₩	(35,313)₩	50,118
Operating profit (loss)		5,319		47		27		(37)	1	4	(2,927)	2,443
Profit (loss) from continuing operations before income tax expense		6,037		191		29		(65)		6	(4,020)	2,178
Profit (loss) for the period		5,140		179		23		(57)		2	(3,812)	1,475
Total assets		146,073		11,552	2	2,676	9	,036	1,34	9	(42,160)	128,526
Total liabilities		70,335		4,182	1	,339	2	,443	23	0	(3,427)	75,102

4. Operating segments (cont'd)

(4) Details of financial information by revenue from contracts with customers for the six months ended June 30, 2020 and 2019 are as follows (Korean won in billions):

			As c	of and for th	ne six mont	hs ended June 30	, 2020			
	SK	SK	SK			SK Engineering				
	Innovation	Telecom	Networks	SKC	SK E&S	& Construction		Consolidation		
	Co., Ltd.	Co., Ltd.	Co., Ltd.	Co., Ltd.	Co., Ltd.	Co., Ltd.	Others		Total	
1. Total sales	₩ 18,363									
2. Revenue from	18,348	9,053	4,446	1,313	3,153	4,492	3,184	4 (2,396)	41,593	
contracts with										
customers										
Categories:	450	0.400	100	05		4 470		(4.000)	40.050	
Service sales	153	8,122	186	35	-	4,476	1,112		13,052	
Finished goods sales Merchandise sales	17,653 169	15 665	228 4,030	1,082 178	1,076 2,018	- 16	1,696 198		21,210 6,518	
Other sales	373	251	4,030	18	2,018	10	190		813	
Other sales	18,348	9,053	4,446	1,313	3,153	4,492	3,184		41,593	
Timing of revenue	10,040	0,000		1,010	0,100	4,402	0,10-	<u>(2,000</u>)	41,000	
recognition:										
Recognition at a	18,195	931	4,260	1,278	84	16	2,072	2 (1,399)	25,437	
point in time	,		,				,			
Recognition over a										
period of time	153	8,122	186	35	3,069	4,476	1,112		<u> 16,156</u>	
	18,348	9,053	4,446	1,313	3,153	4,492	3,184	<u>1 (2,396</u>)	41,593	
3. Revenue from						_				
other sources	15	-	862	-	4	5	1,027	7 (1,003)	910	
	As of and for the six months ended June 30, 2019									
			Asi	of and for th	ne six mont	hs ended June 30	2019			
	SK	SK		of and for th	ne six mont), 2019			
	SK Innovation	SK Telecom	As o SK Networks	of and for th SKC	ne six mont SK E&S	hs ended June 30 SK Engineering & Construction		Consolidation		
			SK			SK Engineering		Consolidation adjustments	Total	
1. Total sales	Innovation	Telecom Co., Ltd.	SK Networks Co., Ltd.	SKC Co., Ltd.	SK E&S Co., Ltd.	SK Engineering & Construction Co., Ltd.	Others	adjustments		
1. Total sales 2. Revenue from	Innovation Co., Ltd.	Telecom Co., Ltd.	SK Networks Co., Ltd.	SKC Co., Ltd.	SK E&S Co., Ltd.	SK Engineering & Construction Co., Ltd.	Others	$\frac{\text{adjustments}}{3} \oplus (3,700)$		
	Innovation <u>Co., Ltd.</u> ₩ 25,952	Telecom <u>Co., Ltd.</u> ₩ 8,772	SK Networks <u>Co., Ltd.</u> ₩ 6,101	SKC <u>Co., Ltd.</u> ₩ 1,210	SK E&S <u>Co., Ltd.</u> ₩ 3,531	SK Engineering & Construction <u>Co., Ltd.</u> W 3,986	<u>Others</u> ₩ 4,266	adjustments 5 ₩ (3,700)	₩ 50,118	
2. Revenue from contracts with customers	Innovation <u>Co., Ltd.</u> ₩ 25,952	Telecom <u>Co., Ltd.</u> ₩ 8,772	SK Networks <u>Co., Ltd.</u> ₩ 6,101	SKC <u>Co., Ltd.</u> ₩ 1,210	SK E&S <u>Co., Ltd.</u> ₩ 3,531	SK Engineering & Construction <u>Co., Ltd.</u> W 3,986	<u>Others</u> ₩ 4,266	adjustments 5 ₩ (3,700)	₩ 50,118	
2. Revenue from contracts with customers Categories:	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210	SK E&S <u>Co., Ltd.</u> ₩ 3,531	SK Engineering & Construction <u>Co., Ltd.</u> ₩ 3,986 3,980	<u>Others</u> ₩ 4,266 3,790	adjustments 5 ₩ (3,700) 0 (2,520)	₩ 50,118 50,046	
2. Revenue from contracts with customers Categories: Service sales	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,772	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528	SK Engineering & Construction <u>Co., Ltd.</u> W 3,986	<u>Others</u> ₩ 4,266 3,790	$\frac{\text{adjustments}}{6 + (3,700)}$ (2,520) (1,019)	₩ 50,11850,04613,042	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528	SK Engineering & Construction Co., Ltd. ₩ 3,986 7 3,980 3,968	<u>Others</u> ₩ 4,266 3,790 1,716 1,595	$\begin{array}{c} \underline{adjustments} \\ 5 \\ \hline \hline \hline \hline \hline \hline \\ 0 \\ 0 \\ \hline \hline \\ 0 \\ \hline \\ 0 \\ \hline \\ 0 \\ \hline \\ 0 \\ \hline \\ (2,520) \\ \hline \\ \hline \\ 0 \\ \hline \\ \hline \\ 0 \\ \hline \\ \hline \\ (1,019) \\ \hline \\ 5 \\ \hline \\ \hline \\ (673) \\ \hline \end{array}$	 ₩ 50,118 50,046 13,042 28,378 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,772	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 - 1,474 2,009	SK Engineering & Construction Co., Ltd. ₩ 3,986 7 3,980 - 3,968 - 12	<u>Others</u>	adjustments 5 ₩ (3,700) 0 (2,520) 6 (1,019) 5 (673) 4 (793)	 ₩ 50,118 50,046 13,042 28,378 7,529 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 <u>982</u>	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13 696	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 1	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u>	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 - 1,474 2,009 <u>45</u>	SK Engineering & Construction Co., Ltd. ₩ 3,986 3,980 3,968 - 12	<u>Others</u>	adjustments 5 ₩ (3,700) 0 (2,520) 5 (1,019) 5 (673) 4 (793) 5 (35)	 ₩ 50,118 50,046 13,042 28,378 7,529 1,097 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 - 1,474 2,009	SK Engineering & Construction Co., Ltd. ₩ 3,986 7 3,980 - 3,968 - 12	<u>Others</u>	adjustments 5 ₩ (3,700) 0 (2,520) 5 (1,019) 5 (673) 4 (793) 5 (35)	 ₩ 50,118 50,046 13,042 28,378 7,529 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales Timing of revenue	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 <u>982</u>	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13 696	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 1	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u>	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 - 1,474 2,009 <u>45</u>	SK Engineering & Construction Co., Ltd. ₩ 3,986 3,980 3,968 - 12	<u>Others</u>	adjustments 5 ₩ (3,700) 0 (2,520) 5 (1,019) 5 (673) 4 (793) 5 (35)	 ₩ 50,118 50,046 13,042 28,378 7,529 1,097 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales Timing of revenue recognition:	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 <u>982</u> 25,933	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,772 8,063 13 696 <u></u>	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 <u>1</u> 5,353	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u> <u>1,210</u>	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 1,474 2,009 <u>45</u> <u>3,528</u>	SK Engineering & Construction Co., Ltd. ₩ 3,986 7 3,980 - - - - - - - - - - - - -	<u>Others</u>	$\begin{array}{c} \underline{adjustments} \\ 5 \ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	 ₩ 50,118 50,046 13,042 28,378 7,529 1,097 50,046 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales Timing of revenue recognition: Recognition at a	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 <u>982</u>	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13 696	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 1	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u>	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 - 1,474 2,009 <u>45</u>	SK Engineering & Construction Co., Ltd. ₩ 3,986 3,980 3,968 - 12	<u>Others</u>	$\begin{array}{c} \underline{adjustments} \\ 5 \ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	 ₩ 50,118 50,046 13,042 28,378 7,529 1,097 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales Timing of revenue recognition:	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 <u>982</u> 25,933	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,772 8,063 13 696 <u></u>	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 <u>1</u> 5,353	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u> <u>1,210</u>	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 1,474 2,009 <u>45</u> <u>3,528</u>	SK Engineering & Construction Co., Ltd. ₩ 3,986 3 3,988 - - - - - - - - - - - - -	<u>Others</u>	$\begin{array}{c} \underline{adjustments} \\ 5 \ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	 ₩ 50,118 50,046 13,042 28,378 7,529 1,097 50,046 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales Timing of revenue recognition: Recognition at a point in time	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 <u>982</u> 25,933 25,865 <u>68</u>	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13 696 <u>-</u> 8,772 709 8,063	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 <u>1</u> 5,353 5,144 209	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u> <u>1,210</u> 1,174 <u>36</u>	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 1,474 2,009 <u>45</u> 3,528 463 <u>3,065</u>	SK Engineering & Construction Co., Ltd. ₩ 3,986 7 3,980 3,968 - 12 - - - - - - - - - - - - -	<u>Others</u>	$\begin{array}{c c} \underline{adjustments} \\ \hline \\ & \\ \hline \\ \\ & \\ \hline \\ \\ \hline \\ & \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \hline \\ \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \hline \hline \hline \hline \hline \\ \hline \hline$	 ₩ 50,118 50,046 13,042 28,378 7,529 1.097 50,046 33,940 16,106 	
 Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales Timing of revenue recognition: Recognition at a point in time Recognition over a period of time 	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 982 25,933 25,865	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13 696 <u>-</u> 8,772 709	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 <u>1</u> 5,353 5,144	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u> 1,210 1,210	SK E&S Co., Ltd. ₩ 3,531 3,528 - 1,474 2,009 45 3,528 463	SK Engineering & Construction Co., Ltd. ₩ 3,986 3 3,988 - - - - - - - - - - - - -	<u>Others</u>	$\begin{array}{c c} \underline{adjustments} \\ \hline \\ & \\ \hline \\ \\ & \\ \hline \\ \\ \hline \\ & \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \hline \\ \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \hline \hline \hline \hline \hline \\ \hline \hline$	 ₩ 50,118 50,046 13,042 28,378 7,529 1,097 50,046 33,940 	
 Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales Timing of revenue recognition: Recognition at a point in time Recognition over a period of time Revenue from 	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 <u>982</u> 25,933 25,865 <u>68</u> 25,865	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13 696 <u>-</u> 8,772 709 8,063	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 <u>1</u> 5,353 5,144 <u>209</u> 5,353	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u> <u>1,210</u> 1,174 <u>36</u>	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 <u>1,474</u> 2,009 <u>45</u> <u>3,528</u> 463 <u>3,065</u> <u>3,528</u>	SK Engineering & Construction Co., Ltd. ₩ 3,986 3,980 3,980 12 3,980 12 3,980 12 3,980 12 3,980	<u>Others</u>	$\begin{array}{c} \underline{adjustments} \\ 5 \ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	 ₩ 50,118 50,046 13,042 28,378 7,529 1,097 50,046 33,940 16,106 50,046 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales Timing of revenue recognition: Recognition at a point in time Recognition over a	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 <u>982</u> 25,933 25,865 <u>68</u>	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13 696 <u>-</u> 8,772 709 8,063	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 <u>1</u> 5,353 5,144 209	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u> <u>1,210</u> 1,174 <u>36</u>	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 1,474 2,009 <u>45</u> 3,528 463 <u>3,065</u>	SK Engineering & Construction Co., Ltd. ₩ 3,986 7 3,980 3,968 - 12 - - - - - - - - - - - - -	<u>Others</u>	$\begin{array}{c c} \underline{adjustments} \\ \hline \\ & \\ \hline \\ \\ & \\ \hline \\ \\ \hline \\ & \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \hline \\ \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \hline \hline \hline \hline \hline \\ \hline \hline$	 ₩ 50,118 50,046 13,042 28,378 7,529 1.097 50,046 33,940 16,106 	
2. Revenue from contracts with customers Categories: Service sales Finished goods sales Merchandise sales Other sales Timing of revenue recognition: Recognition at a point in time Recognition over a period of time	Innovation <u>Co., Ltd.</u> ₩ 25,952 25,933 68 24,797 86 <u>982</u> 25,933 25,865 <u>68</u>	Telecom <u>Co., Ltd.</u> ₩ 8,772 8,772 8,063 13 696 <u>-</u> 8,772 709 8,063	SK Networks <u>Co., Ltd.</u> ₩ 6,101 5,353 209 240 4,903 <u>1</u> 5,353 5,144 209	SKC <u>Co., Ltd.</u> ₩ 1,210 1,210 37 932 222 <u>19</u> <u>1,210</u> 1,174 <u>36</u>	SK E&S <u>Co., Ltd.</u> ₩ 3,531 3,528 1,474 2,009 <u>45</u> 3,528 463 <u>3,065</u>	SK Engineering & Construction Co., Ltd. ₩ 3,986 7 3,980 3,968 - 12 - - - - - - - - - - - - -	<u>Others</u>	$\begin{array}{c} \underline{adjustments} \\ 5 \ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	 ₩ 50,118 50,046 13,042 28,378 7,529 1.097 50,046 33,940 16,106 	

5. Financial instruments

5.1 Financial assets

Details of financial assets as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

			June 30, 2020		
	Financial assets measured at FVTPL	Financial assets measured at FVOCI	Financial assets measured at amortized cost	Financial assets designated as hedging instruments	Total
Current assets:					
Cash and cash equivalents	₩ 2,567,931	₩ -	₩ 10,596,110	₩ - ₩	13,164,041
Short-term financial instruments	2,105,152	-	1,486,389	-	3,591,541
Trade receivables (*1)	164,560	-	7,438,612	-	7,603,172
Other receivables	169,599	-	1,904,490	-	2,074,089
Short-term loans	-	-	160,641	-	160,641
Accrued income	-	-	88,964	-	88,964
Short-term investment securities	81,314	-	45	-	81,359
Guarantee deposits	-	-	523,657	-	523,657
Derivative financial assets	69,270	-	-	57,419	126,689
Lease receivables			26,399		26,399
	5,157,826		22,225,307	57,419	27,440,552
Non-current assets:					
Long-term financial instruments	4,525	-	92,991	-	97,516
Long-term trade receivables	-	-	188,832	-	188,832
Long-term other receivables	216,579	-	47,513	-	264,092
Long-term loans	-	-	780,149	-	780,149
Long-term investment securities	911,210	2,700,995	1,176	-	3,613,381
Guarantee deposits	-	-	550,108	-	550,108
Derivative financial assets	97,189	-	-	376,391	473,580
Lease receivables		<u> </u>	49,449	<u> </u>	49,449
	1,229,503	2,700,995	1,710,218	376,391	6,017,107
	₩ 6,387,329	₩ 2,700,995	<u>₩ 23,935,525</u>	₩ 433,810 ₩	33,457,659

(*1) Contract assets (unbilled receivables) amounting to ₩873,797 million as of June 30, 2020 are not included in the financial assets.

5.1 Financial assets (cont'd)

		De	ecember 31, 2019		
	Financial assets measured at FVTPL	Financial assets measured at FVOCI	Financial assets measured at amortized cost	Financial assets designated as hedging instruments	Total
Current assets:					
Cash and cash equivalents	₩ 994,090	₩ -	₩ 6,987,665	₩ - ₩	7,981,755
Short-term financial instruments	2,188,983	-	1,505,361	-	3,694,344
Trade receivables (*1)	191,701	-	9,636,242	-	9,827,943
Other receivables	251,919	-	1,660,579	-	1,912,498
Short-term loans	-	-	149,008	-	149,008
Accrued income	-	-	117,056	-	117,056
Short-term investment securities	185,056	-	45	-	185,101
Guarantee deposits	-	-	408,273	-	408,273
Derivative financial assets	45,123	-	-	33,576	78,699
Lease receivables			28,172	<u> </u>	28,172
	3,856,872		20,492,401	33,576	24,382,849
Non-current assets:					
Long-term financial instruments	4,528	-	3,070	-	7,598
Long-term trade receivables	-	-	130,171	-	130,171
Long-term other receivables	289,959	-	64,663	-	354,622
Long-term loans	-	-	698,135	-	698,135
Long-term investment securities	857,761	1,951,482	1,169	-	2,810,412
Guarantee deposits	-	-	595,994	-	595,994
Derivative financial assets	157,659	-	-	144,780	302,529
Lease receivables			48,750		48,750
	1,309,907	1,951,482	1,541,952	144,870	4,948,211
	₩ 5,166,779	₩ 1,951,482	₩ 22,034,353	₩ 178,446 ₩	29,331,060

(*1) Contract assets (unbilled receivables) amounting to ₩549,385 million as of December 31, 2019 are not included in the financial assets.

5.2 Financial liabilities

Details of financial liabilities as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

	June 30, 2020										
	Financial liabilities measured at FVTPL			Other financial liabilities		Financial liabilities designated as hedging instruments		Total			
Current liabilities:											
Short-term borrowings	₩	-	₩	8,497,756	₩	- +	₩	8,497,756			
Trade payables		-		6,231,555		-		6,231,555			
Other payables		908		4,587,656		-		4,588,564			
Current portion of long-term debt		-		5,433,047		-		5,433,047			
Accrued expenses		-		3,149,905		-		3,149,905			
Dividends payable		-		837		-		837			
Leasehold deposits received		-		256,086		-		256,086			
Derivative financial liabilities		37,901		-		20,753		58,654			
Lease liabilities		-		1,105,680		-		1,105,680			
Finance guarantee liabilities		-		345		-		345			
5		38,809		29,262,867		20,753		29,322,429			
Non-current liabilities:				00.000 540				00.000 540			
Bonds payable and long-term borrowings		-		36,069,510		-		36,069,510			
Long-term trade payables		-		1,551		-		1,551			
Long-term accrued expenses		-		12,859		-		12,859			
Long-term other payables		39,435		1,147,092		-		1,186,527			
Leasehold deposits received		-		231,472		-		231,472			
Derivative financial liabilities		227,955		-		106,746		334,701			
Lease liabilities		-		2,956,546		-		2,956,546			
Financial guarantee liabilities		-		16,529		-		16,529			
5		267,390	_	40,435,559		106,746		40,809,695			
	₩	306,199	₩	69,698,426	₩	127,499	₩	70,132,124			

	December 31, 2019											
	Financial liabilities measured at FVTPL	Other financial liabilities	Financial liabilities designated as hedging instruments	Total								
Current liabilities:												
Short-term borrowings	₩ -	₩ 5,888,357	₩ -	₩ 5,888,357								
Trade payables	-	8,809,856	-	8,809,856								
Other payables	41,057	3,920,093	-	3,961,150								
Current portion of long-term debt	-	6,029,722	-	6,029,722								
Accrued expenses	-	3,320,952	-	3,320,952								
Dividends payable	-	1,323	-	1,323								
Leasehold deposits received	-	218,090	-	218,090								
Derivative financial liabilities	38,178	-	6,409	44,587								
Lease liabilities	-	1,172,062	-	1,172,062								
Finance guarantee liabilities	-	345		345								
	79,235	29,360,800	6,409	29,446,444								
Non-current liabilities:												
Bonds payable and long-term borrowings	-	32,374,161	-	32,374,161								
Long-term trade payables	-	2,391	-	2,391								
Long-term other payables	-	1,565,043	-	1,565,043								
Leasehold deposits received	-	263,442	-	263,442								
Derivative financial liabilities	223,168	-	22,957	246,125								
Lease liabilities	-	2,897,181	-	2,897,181								
Financial guarantee liabilities		15,569		15,569								
	223,168		22,957	37,363,912								
	₩ 302,403	₩ 66,478,587	₩ 29,366	₩ 66,810,356								

5.3 Fair values of financial instruments by hierarchy level

1) Fair values and book values of financial instruments as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

	June 30, 2020				December 31, 2019		
		Book value	Fair value		Book value	Fair value	
Bonds payable	₩	30,384,137 ₩	31,097,635	₩	29,530,202	₩ 30,228,914	
Borrowings		19,616,176	19,853,360		14,762,038	15,850,637	

The fair value of bonds payable and borrowings was measured as the present value of the contractually determined stream of future cash flows discounted at the market interest rate ($0.92\% \sim 5.37\%$) regarding residual market risks. As the book values of other financial assets and other financial liabilities are reasonable approximations to fair values, the fair values have not been disclosed.

2) The Group categorized financial instruments measured at fair value based on the inputs to measure the fair value. The level of hierarchy of fair value is as follows:

- Level 1: inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date;
- Level 2: inputs are inputs, other than quoted prices included within Level 1, that are observable for the asset or liability, either directly or indirectly; and
- Level 3: inputs are unobservable inputs for the asset or liability.

Financial liabilities measured at FVTPL

Derivative financial liabilities

3) Details of fair values of financial instruments by hierarchy level as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

	June 30, 2020						
	Level 1 Level 2 Level 3 Total	•					
Financial assets:		-					
Financial assets measured at FVTPL	₩ 4,673,083 ₩ 469,060 ₩ 1,078,727 ₩ 6,220,870)					
Financial assets measured at FVOCI	1,135,878 - 1,565,117 2,700,995	5					
Derivative financial assets	2,513 597,756 - 600,269)					
	₩ 5,811,474 ₩ 1,066,816 ₩ 2,643,844 ₩ 9,522,134	ŀ					
Financial liabilities:		-					
Financial liabilities measured at FVTPL	₩ -₩ 40,343 ₩ -₩ 40,343	3					
Derivative financial liabilities	<u> </u>	5					
	₩ 81 ₩ 211,261 ₩ 222,356 ₩ 433,698	3					
		-					
	December 31, 2019	-					
	Level 1 Level 2 Level 3 Total	-					
Financial assets:							
Financial assets measured at FVTPL	₩ 3,183,073 ₩ 1,327,969 ₩ 452,955 ₩ 4,963,997						
Financial assets measured at FVOCI	649,439 - 1,302,043 1,951,482	2					
Derivative financial assets	<u> </u>	5					
	<u>₩ 3,833,075</u> <u>₩ 1,708,634</u> <u>₩ 1,754,998</u> <u>₩ 7,296,707</u>	1					
Financial liabilities:							

₩

₩

-₩

449

449 ₩

41.057 ₩

67,907

<u>108,964</u> \text{W}

41.057

290,712

331,769

₩

222,356

<u>222,356</u> ₩

6. Trade receivables

(1) Details of trade receivables as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

	June 30, 2020 Current Non-curr			20 on-current		Decembe Current	ber 31, 2019 Non-current	
Trade receivables:								
Trade receivables (*1)	₩	8,308,956	₩	202,948	₩	10,504,422	₩	138,068
Contract assets		873,797		-		549,385		-
(unbilled receivables)								
Allowance for doubtful accounts:								
Trade receivables		(705,784)		<u>(14,116</u>)		<u>(676,479</u>)		<u>(7,897</u>)
	₩	8,476,969	₩	188,832	₩	10,377,328	₩	130,171

(*1) Includes the net investment amount of the finance lease provided by the Group as a manufacturer or seller.

(2) Contract assets and liabilities related with contracts with customers as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019
Contract assets: (*1)			
Construction business	₩	685,321	₩ 403,343
Telecommunication business		149,274	191,858
Others		188,575	146,135
	₩	1,023,170	₩ 741,336
Contract liabilities: (*2)		June 30, 2020	December 31, 2019
Construction business	₩	1,419,856	₩ 1,308,245
Telecommunication business		227,932	223,456
Others		876,711	886,096
	\overline{W}	2,524,499	₩ 2,417,797

(*1) Contract assets are included in trade receivables and other assets.

(*2) Contract liabilities are included in advances received and other liabilities.

6. Trade receivables (cont'd)

(3) Details of construction profit variation by changes of accounting estimates related to construction contracts as of June 30, 2020 are as follows (Korean won in millions):

					Jun	e 30, 2020				
		Change in estimated construction revenue		Change in estimated cost	Impact on current period profit (loss)		Impact on future period profit			Change in unbilled (overbilled) receivables
SK Engineering & Construction Co., Ltd. and its subsidiaries	₩	292,456	₩	191,109	₩	36,352	₩	64,995	₩	36,352
Others		14,185		11,652		1,981		552		1,981
	₩	306.641	₩	202.761	₩	38.333	₩	65.547	₩	38.333

Impact on profit of current and future period has been calculated by the estimated construction costs based on the situations which occurred from the inception of construction contracts to current reporting period and the estimated construction revenue as of current reporting period. Estimated construction costs and revenue can be changed in the future period.

(4) Details of the construction contracts where the contract revenue exceeds 5% of the preceding year's revenue under the percentage-of-completion method as of June 30, 2020 are as follows (Korean won in millions):

						Unbilled receivables			Trade re	cei	vables (*1)	
		Contract	Completion	Percentage							Allowance for doubtfu	
Subsidiary	Project	date	date	(%)		Amount	Impairment		Amount	_	accounts	
SK Engineering &	RRE Project	2009.12	2016.05	99.9	₩	-	₩	-₩	:	-	₩	-
Construction	Goseong High	2014.07	2021.07	81.7		-		-		-		-
Co., Ltd.	Fire power											
	Construction											

(*1) The balance does not include due from customer for construction work.

7. Inventories

Details of inventories as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		Ju	ne 30, 2020		December 31, 2019					
			Valuation	Book		Valuation	Book			
		Cost	allowance	value	Cost	allowance	value			
Merchandise	₩	1,258,925 ₩	(52,581)₩	1,206,344	₩ 926,141	₩ (39,343)₩	886,798			
Finished goods		1,838,370	(81,552)	1,756,818	2,392,621	(68,544)	2,324,077			
Semi-finished goods and work in progress		911,522	(51,836)	859,686	1,108,743	(54,792)	1,053,951			
Raw materials and sub-materials		1,404,192	(28,777)	1,375,415	2,030,535	(31,042)	1,999,493			
Materials in transit		1,145,333	-	1,145,333	2,356,402	-	2,356,402			
Supplies		320,722	(4,951)	315,771	322,035	(3,957)	318,078			
Uncompleted contracts		83,017	-	83,017	189,428	-	189,428			
Others		12,573	(349)	12,224	10,436	(302)	10,134			
	₩	<u>6,974,654</u> ₩	<u>(220,046)</u> ₩	6,754,608	<u>₩ 9,336,341</u>	<u>₩ (197,980)</u> <u>₩</u>	9,138,361			

8. Investment securities

Details of investment securities as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

			June 30,	2020	
		Financial	Financial	Financial	
		assets	assets	assets at	
		at FVTPL	at FVOCI (*1)	Amortized cost	Total
Equity instruments:					
Marketable equity instruments	₩	-	₩ 1,135,878	₩ - ₩	1,135,878
Non-marketable equity instruments		21,313	1,544,900	-	1,566,213
		21,313	2,680,778		2,702,091
Bond instruments:					
Beneficiary securities and others		528,527	662	-	529,189
Debt securities		442,684	19,555	1,221	463,460
		971,211	20,217	1,221	992,649
	₩	992,524	₩ 2,700,995	₩ 1,221 ₩	3,694,740
Current investment securities	₩	81,314	₩ -	₩ 45 ₩	81,359
Non-current investment securities		911,210	2,700,995	1,176	3,613,381
			December	31, 2019	
		Financial	Financial	Financial	
		accete	accete	accete	

	Financial assets		Financial assets	Financial assets		
		measured at	measured at	measured at		
		FVTPL	FVOCI (*1)	amortized cost		Total
Equity instruments:						
Marketable equity instruments	₩	-	₩ 649,439	•₩ -	₩	649,439
Non-marketable equity instruments		2,009	1,277,996	<u> </u>		1,280,005
		2,009	1,927,435	<u> </u>		1,929,444
Bond instruments:						
Beneficiary securities and others		598,306	715	j -		599,021
Debt securities		442,502	23,332	1,214		467,048
		1,040,808	24,047	1,214		1,066,069
	₩	1,042,817	₩ 1,951,482	<u>₩ 1,214</u>	₩	2,995,513
Current investment securities	₩	185,056	₩	₩ 45	₩	185,101
Non-current investment securities		857,761	1,951,482	1,169		2,810,412

(*1) The Group has applied the irrevocable option to designate the equity instruments held for strategic investment, not for held-for-trading purpose, at the date of initial application, as items measured at FVOCI.

9. Investments in associates and joint ventures

(1) Investments in associates and joint ventures

Details of investments in associates and joint ventures as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

	_		June 30, 2020)	December 31, 2019
Company	Domicile	Equity ownership (*1)	Acquisition cost	Book value	Book value
Associates:		÷			
SK Hynix Inc.	Korea	20.1%	₩ 5.420.310	₩ 11.275.520	₩ 11,028,722
China Gas Holdings Ltd. (*2)	Hong Kong	1.5%	-	-	1,548,020
Vingroup Joint Stock Company (*3)	Vietnam	6.1%	1,165,399	1.143.141	1,172,259
Masan Group Corporation (*3)	Vietnam	9.4%	559,050	587,511	483,950
ESR Cayman Limited (*3)	Cayman	11.1%	493,627	704,193	684,714
Eureka Midstream Holdings	ÚSA	40.0%	465,582	505,959	487,160
FR BR Aggregator	USA	39.0%	350,718	377,843	331,310
Peru LNG Company, LLC	USA	20.0%	331,144	281,713	286,727
Daehan Oil Pipeline Corporation	Korea	41.0%	311,372	344,807	341,754
Shenzhen Londian Electrics Co., Ltd.	China	26.0%	284,602	307,037	294,126
NHIP II Bison Holdings, LLC	USA	24.5%	297,511	292,339	343,985
Hana Card Co., Ltd. (*3)	Korea	15.0%	253,707	302,168	294,756
Yemen LNG Company Ltd. (*3, 4)	Bermuda	6.9%	252,813	-	-
Beijing BESK Technology Co., Ltd.	China	49.0%	247,427	237,819	233,244
Korea IT Fund (*5)	Korea	63.3%	242,170	300,988	311,553
Joyvio (*3)	China	14.0%	213,793	219,209	212,353
Canakkale Highway And Bridge	Turkey	25.0%	185,306	172,041	140,849
Best Oil Company Limited	Myanmar	35.0%	154,732	158,108	153,524
So car Co., Ltd.	Korea	24.9%	109,304	79,963	68,135
Others				1,184,700	999,637
				18,475,059	19,416,778
Joint ventures (*6):					
Sinopec-SK (Wuhan) Petrochemical Co., Ltd.	China	35.0%	676,332	972,194	1,003,159
Mitsui Chemicals & SKC Polyurethanes Co., Ltd.	Korea	50.0%	349,942	435,591	455,225
Hana Land Chip PEF 33 (*5)	Korea	65.2%	196,001	263,759	264,395
Eurasia Tunnel	Turkey	50.0%	174,215	259,789	250,963
Boryeong LNG Terminal Co., Ltd.	Korea	50.0%	133,323	142,374	152,812
SABIC SK Nexlene Company Pte. Ltd.	Singapore	50.0%	112,670	79,367	81,182
Others				327,378	270,202
				2,480,452	2,477,938
				<u>₩ 20,955,511</u>	<u>₩ 21,894,716</u>

(*1) Equity ownership includes indirect investments held by the consolidated subsidiaries.

(*2) For the six months ended June 30, 2020, the remaining shares were reclassified from investment in the associates to long-term investment securities due to the sale of shares and the loss of significant influence.

(*3) The Group retains significant influence on the associate despite having less than 20% equity interests.

(*4) Impairment losses on investments in associates were fully recognized as there was an indication of impairment prior to the current period.

(*5) These companies were not included as consolidated subsidiaries as the Group does not have control over more than half of the voting rights by agreements.

(*6) All joint arrangements that the Group has joint control over are structured through separate entities. The parties that have joint control with respect to the joint agreements hold the rights to the net assets of the agreements and accordingly, they are classified as joint ventures and accounted for using the equity method of accounting.

9. Investments in associates and joint ventures (cont'd)

(2) Changes in carrying amount of investments in associates and joint ventures

Changes in investments in associates and joint ventures accounted for using the equity method for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

			For th	ne six months en	ded June 30, 2	020		
				Equity profit	Other			
	Beginning			or losses on	capital	Dividends	Others	Ending
	balance	Acquisitions	Disposals	investments	movements	received	(*1)	balance
Associates	₩ 19,416,778 ₩	₩ 262,505	₩ (1,676,418)	₩ 422,868	₩ 89,193	₩ (196,408) ₩	156,541 ₩	18,475,059
Joint ventures	2,477,938	82,770	(29,114)	(54,811)	11,635	(27,680)	19,714	2,480,452
	₩ 21,894,716	₩ 345,275	₩(1,705,532)	₩ 368,057	₩ 100,828	₩ (224,088) ₩	176,255	20,955,511
			For th	ne six months en	ded June 30, 2	019		
				Equity profit	Other			
	Beginning			or losses on	capital	Dividends	Others	Ending
	balance	Acquisitions	Disposals	investments	movements	received	(*1, 2)	balance
Associates	₩ 17,151,573 ₩	₩ 2,036,903	₩ (12,726)	₩ 397,417	₩ 144,701	₩ (278,927) ₩	105,811 ₩	19,544,752
Joint ventures	2,066,772	25,000	(81)	54,453	26,286	(28,347)	(135)	2,143,948
	₩ 19,218,345	₩ 2,061,903	₩ (12,807)	₩ 451,870	₩ 170,987	₩ (307,274) ₩	105,676	21,688,700

(*1) Others include net foreign currency differences and others.

(*2) Others include the effects of the gain on the deemed disposal of ₩13,103 million as a result of changes in China Gas Holdings Ltd.'s equity holding ratio during the prior period.

(3) Details of unrecognized changes in equity method caused by discontinuing the application of equity method as of June 30, 2020 are as follows (Korean won in millions):

	Beginning balance		Changes			Ending balance
Pentaport Development Co., Ltd.	₩	72,675	₩	7,077	₩	79,752
SK Telesys Corporation		3,960		-		3,960
Korea Consortium Kazakh B.V.		178,926		-		178,926
Yemen LNG Company Ltd. and others		34,608		(10)		34,598

9. Investments in associates and joint ventures (cont'd)

(4) Condensed financial information of significant investments in associates and joint ventures as of June 30, 2020 are as follows (Korean won in millions):

	As of and for the six months ended June 30, 2020						
							Total
							mprehensive
	Current	Non-current		Non-current		Net income	income
	assets	assets	liabilities	liabilities	Sales	(loss)	(loss)
Associates:							
SK Hynix Inc. ₩	17,362,825	₩ 51,896,47	71 ₩ 9,595,473	₩ 10,260,948	₩ 15,805,426 *	₩ 1,911,044 ₩	2,137,667
Vingroup Joint Stock Company	9,801,685	11,623,47	73 9,793,085	5,306,641	801,373	26,176	26,176
Masan Group Corporation	1,600,512	3,842,4	11 1,712,402	1,059,382	932,602	(11,207)	(11,207)
Eureka Midstream Holdings	31,688	983,79	90 41,723	372,438	56,381	26,508	26,508
FR BR Aggregator	25,291	1,539,92	22 595,677	-	-	24,646	24,646
Peru LNG Company, LLC	226,960	2,640,45	53 205,026	1,253,294	176,009	(69,428)	(69,428)
Daehan Oil Pipeline Corporation	149,526	948,85	57 50,793	242,881	84,959	16,807	16,807
Shenzhen Londian	470,250	693,55	53 370,870	238,696	193,510	7,858	7,859
Electrics Co., Ltd.							
NHIP II Bison Holdings, LLC	22,870	1,421,13	- 35	741	-	(497)	(497)
Hana Card Co., Ltd.	8,330,173	182,00	03 985,054	5,841,166	604,713	65,291	56,800
Beijing BESK Technology Co., Ltd.	284,217	422,30	07 190,472	33,337	38,071	(1,840)	(1,840)
Korea IT Fund	95,780	379,46	- 64	-	28,354	18,557	11,042
Canakkale Highway And Bridge	128,757	2,631,77	72 110,623	1,961,741	410,215	19,570	(28,676)
Best Oil Company Limited	201,708	181,68	35 183,808	-	544,874	(13,383)	(13,383)
So car Co., Ltd.	67,946	210,69	92 117,034	111,211	123,274	(25,363)	(25,363)
Joint ventures:							
Sinopec-SK (Wuhan)	865,942	4,439,23	36 1,501,004	1,105,603	2,775,282	(182,328)	(150,469)
Petrochemical Co., Ltd.							
Mitsui Chemicals & SKC	443,311	941,67	78 310,068	127,014	433,458	(38,571)	(32,869)
Polyurethanes Co., Ltd.							
Hana land chip PEF 33	8,415	711,69	93 1,042	314,483	17,234	12,250	12,250
Eurasia Tunnel	148,324	1,527,79	96 148,095	1,026,492	6,882	25,264	(2,626)
Boryeong LNG Terminal Co., Ltd.	197,680	1,358,26	58 180,920	1,119,780	74,595	13,201	13,238
SABIC SK Nexlene Company	191,643	553,29	93 135,592	367,859	151,509	3,153	(16,355)
Pte. Ltd.							

10. Property, plant and equipment

(1) Details of property, plant and equipment as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019
Acquisition cost	\overline{W}	62,459,508	₩ 58,269,139
Accumulated depreciation			
and accumulated impairment losses		(17,595,563)	(15,422,760)
	\overline{W}	44,863,945	₩ 42,846,379

(2) Changes in property, plant and equipment for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	For the six months ended June 30, 2020						
	Beginning	Business					Ending
	balance	combination	Acquisitions	Disposals	Depreciation	Others (*1)	balance
Land	₩ 8,787,048	₩ 51,173	₩ 9,720	₩ (192,984)	₩ -	₩ 133,593	₩ 8,788,550
Buildings	4,271,484	48,069	3,502	(14,000)	(90,969)	209,663	4,427,749
Structures	1,518,777	6,337	1,871	(10,012)	(56,592)	112,046	1,572,427
Ships and vessels	860	-	-	-	(59)	-	801
Machinery and equipment	18,599,717	302,083	213,278	(11,106)	(1,862,769)	2,278,181	19,519,384
Vehicles	185,700	153	2,039	(1,047)	(15,174)	34,206	205,877
Operating lease asset	1,746,356	-	402,498	(13,592)	(214,191)	(176,558)	1,744,513
Others	3,537,461	6,552	626,411	(8,543)	(341,260)	(185,843)	3,634,778
Construction-in-progress	4,198,976	138,662	3,295,805	(22,685)		(2,640,892)	4,969,866
	<u>₩ 42,846,379</u>	₩ 553,029	₩ 4,555,124	₩ (273,969)	<u>₩ (2,581,014)</u>	₩ (235,604)	₩ 44,863,945

	For the six months ended June 30, 2019							
	Beginning	Business						
	balance	combination	Acquisitions	Disposals	Depreciation	Others (*1)	balance	
Land	₩ 9,627,559	₩ 42,996	₩ 9,905	₩ (20,399)	₩ -	₩ 168,485	₩ 9,828,546	
Buildings	4,043,820	7,642	4,675	(11,289)	(89,418)	131,436	4,086,866	
Structures	1,611,612	439	12,884	(1,510)	(56,277)	25,490	1,592,638	
Ships and vessels	843	-	-	(1)	(58)	135	919	
Machinery and equipment	17,966,522	361	277,602	(21,921)	(1,738,939)	1,600,509	18,084,134	
Vehicles	126,601	868	4,230	(421)	(8,960)	1,071	123,389	
Operating lease asset	697,476	980,437	269,917	(19,085)	(220,574)	(24,971)	1,683,200	
Others	3,627,490	1,691	723,284	(4,257)	(340,789)	(571,619)	3,435,800	
Construction-in-progress	2,013,998		1,960,858	(12,068)		(1,343,092)	2,619,696	
	<u>₩ 39,715,921</u>	₩ 1,034,434	<u>₩ 3,263,355</u>	<u>₩ (90,951</u>)	<u>₩ (2,455,015</u>)	<u>₩ (12,556</u>)	<u>₩ 41,455,188</u>	

(*1) Other changes include transfer of intangible assets and investment properties, impairment losses, net translation differences and others.

11. Right-of-use assets and lease liabilities

(1) Details of right-of-use assets as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019
Acquisition cost	₩	5,836,280	₩ 5,602,075
Accumulated depreciation			
and accumulated impairment losses		(1,333,233)	(1,058,529)
	\overline{W}	4,503,047	₩ 4,543,546

(2) Changes in right-of-use assets for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	For the six months ended June 30, 2020						
	Beginning	Business					Ending
	balance	combination	Acquisitions	Disposals	Depreciation	Others (*1)	balance
Land and buildings	₩ 1,546,603	₩ 71,794	₩ 363,952	₩ (155,877)	₩ (227,470)	₩ 8,626	₩ 1,607,628
Tank	266,195	-	12,075	(2,076)	(34,035)	1,066	243,225
Ships and vessels	1,065,528	-	22,771	-	(44,444)	17,522	1,061,377
Vehicles	1,422,992	2,115	171,065	(108,488)	(145,328)	(1,213)	1,341,143
Others	242,228	3,245	60,884	(10,926)	(60,617)	14,860	249,674
	₩ 4,543,546	₩ 77,154	₩ 630,747	<u>₩ (277,367</u>)	<u>₩ (511,894</u>)	₩ 40,861	<u>₩ 4,503,047</u>

	For the six months ended June 30, 2019							
	Change	es in						
	Beginning account	ting Business			Others Ending			
	balance polic	combination	Increase	Decrease Depreciation	(*1) balance			
Land and buildings	₩ - ₩ 1,074	4,318 ₩ 3,583	₩ 318,047	₩ (78,652)₩ (223,741)₩	76 ₩ 1,093,831			
Tank	- 298	8,674 -	20,476	(5,483) (27,686)	1,398 287,379			
Ships and vessels	-		474,350	- (3,239)	4,239 475,350			
Vehicles	- 1,24	4,872 68,939	299,551	(94,042) (137,632)	449 1,382,137			
Others	- 18	7,890 9	37,176	(13,289) (42,650)	(49) 169,087			
	₩ - ₩ 2,80	<u>5,754</u> <u>₩ 72,531</u>	<u>₩ 1,149,600</u>	<u>₩ (191,466)</u> <u>₩ (434,948)</u>	<u>6,313</u> <u>₩ 3,407,784</u>			

(*1) Others consist of net foreign exchange differences and adjustments to the right-of-use assets due to the remeasurement of the lease liability.

(3) Changes in lease liabilities for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

_	For the six months ended June 30, 2020							
Beginning Business				Interest			Others	Ending
	balance	combination	<u>Increase</u>	expenses	Decrease	Transfer	(*1)	balance
Lease liabilities	₩ 4,069,243	₩ 77,27	8 ₩ 631,771	₩ 60,177	₩ (561,747)₩	(2,344) ₩	(212,152)₩	4,062,226
_	For the six months ended June 30, 2019							
		Changes in						
	5 5 5		Business				Others	Ending
	balance			crease exper				balance
Lease liabilities	₩ 21,394 ₩	2,896,860	₩ 73,953 ₩1	,077,786 ₩ 48	3,968 ₩ (564,9	85) ₩(80,014	4) ₩11,999	₩3,485,961

(*1) Others consist of lease withdrawal, net foreign exchange difference, and the details of remeasurement of the lease liability for a lease modification that is not accounted for as a separate lease.

The Group recognized lease payments of #107,498 million(#145,937 million as of June 30, 2019) in relation to short-term leases, #5,868 million(#7,095 million as of June 30, 2019) in relation to leases of low-value assets during the six months period ended.

12. Investment property

(1) Details of investment property as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

	June	e 30, 2020	December 31, 2019
Acquisition cost	\overline{W}	538,888 ₩	₩ 605,362
Accumulated depreciation			
and accumulated impairment loss		(117,640)	(117,604)
	\overline{W}	421,248 ₩	₩ 487,758

(2) Changes in investment property for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

			For	the s	six months end	led Jur	ne 30, 2020)			
	Beginni	ng									Ending
	balanc	e Acc	uisition		Disposal	Dep	reciation	0	thers (*1)		balance
Land	₩ 241	,383 ₩	111	₩	(5,826)	₩	-	₩	363	₩	236,031
Buildings	245	5,891	313		(56,599)		(4,211)		(789)		184,605
Structures		484					(35)		163		612
	₩ 487	,7 <u>58</u> ₩	424	₩	(62,425)	₩	(4,246)	₩	(263)	₩	421,248
			For	the s	six months end	led Jur	ne 30, 2019	9			
	Beginni	ng									Ending
	balanc	e Acc	uisition		Disposal	Dep	reciation	0	<u>thers (*1)</u>		balance
Land	₩ 201	,213 ₩	-	₩	-	₩	-	₩	103	₩	201,316
Buildings	302	2,125	-		-		(3,961)		3,783		301,947
Structures		628	-		-		(72)				556
	₩ 503	966 ₩		₩		₩	(4,033)	₩	3,886	₩	503,819

(*1) This includes transferred amounts to property, plant and equipment, net translation differences and others.

13. Goodwill

(1) Changes in goodwill for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

		June 30, 2020		June 30, 2019
Beginning balance	₩	2,598,464	₩	2,379,526
Business combination (see Note 35)		1,680,323		183,520
Others (*1)		50,573		<u>(31,644</u>)
Ending balance	₩	4,329,360	₩	2,594,690

(*1) Others include net translation differences, retroactive adjustment amount of identifiable net assets in accordance with past business combination.

14. Intangible assets

Details of intangible assets for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

		For the six months ended June 30, 2020										
	Beginning	Business					Ending					
	balance	combination	Acquisitions	Disposals	Amortization	Others (*2)	balance					
Development costs	₩ 151,824	1₩ -	₩ 28,416 ₩	₩ (365)₩	₩ (18,118) ₩	₩ 4,460 ₩	166,217					
Facility usage rights	48,300) -	820	-	(3,588)	697	46,229					
Industrial property rights	74,659	9 -	1,285	(96)	(3,267)	16,521	89,102					
Frequency usage rights	2,647,50	1 -	-	-	(260,990)	(12,388)	2,374,123					
Customer-related assets	2,221,36	5 710,404	1,385	(137)	(114,840)	12,884	2,831,061					
Membership (*1)	237,662	2 50,365	18,388	(12,574)	-	743	294,584					
Development costs for petroleum resource	1,492,03	1 -	95,617	-	(20,380)	13,970	1,581,238					
Brand-related assets (*1)	2,596,643	- 3	-	-	-	394	2,597,037					
Developed technology	941,534	4 50,814	-	-	(76,895)	2,183	917,636					
Others	1,656,26	7 85,303	107,255	(2,646)	(280,281)	139,784	1,705,682					
	<u>₩ 12,067,78</u>	<u>896,886</u> ₩	<u>₩ 253,166</u> \	₩ (15,818)₩	₩ (778,359) ₩	<u>∀ 179,248</u> ₩	12,602,909					

		For the six months ended June 30, 2019										
	Begin	ning	Business						Ending			
	balar	ce	combination	Acc	quisitions	Disposals	Amortization	Others (*2)	balance			
Development costs	₩ 12	2,290 3	₩ -	₩	22,230 \	₩ -	₩ (14,586)₩ 8,661	₩ 138,595			
Facility usage rights	5	3,872	-		860	(10) (4,286) 687	51,123			
Industrial property rights	9	0,915	12		1,142	(532) (2,977) (12,045)	76,515			
Frequency usage rights	3,13	9,978	-		-	-	(231,488) -	2,908,490			
Customer-related assets	2,39	3,689	15,038		128	(143) (103,902) 12,317	2,322,127			
Membership (*1)	22	9,325	1,511		10,871	(2,952) -	758	239,513			
Development costs for petroleum	2,35	4,708	-		193,306	(33,560)) (46,901) 22,625	2,490,178			
resource												
Brand-related assets (*1)	2,22	3,112	-		-	-	-	374,455	2,597,567			
Developed technology	1,08	5,222	-		-	-	(73,433) 2,162	1,014,951			
Others	2,11	2,088	8,797		60,919	(2,471) (261,642) (306,273)	1,611,418			
	₩ 13,81	1,199 1	₩ 25,358	₩	289,456	₩ (39,668) <u>₩ (739,215</u>) <u>₩ 103,347</u>	₩ 13,450,477			

(*1) Membership and brand-related assets are classified as intangible assets with infinite useful lives and are not amortized.

(*2) This includes impairment loss, net translation differences, transfer to intangible assets from construction-in-progress and others.

15. Borrowings and bonds payable

(1) Details of borrowings and bonds payable as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 3	0, 2020	December	31, 2019
		Current	Non-current	Current	Non-current
Short-term borrowings (*1)	₩	8,497,756	₩ -	₩ 5,888,357	₩ -
Bonds and long-term borrowings:					
Bonds payable		4,006,568	26,377,569	4,393,154	25,137,048
Long-term borrowings (*1)		1,426,479	9,691,941	1,636,568	7,237,113
		5,433,047	36,069,510	6,029,722	32,374,161
	₩	13,930,803	<u>₩ 36,069,510</u>	<u>₩ 11,918,079</u>	<u>₩ 32,374,161</u>

(*1) It includes borrowings collaterized for trade receivables of ₩316,782 million and ₩396,851 million as of June 30, 2020 and December 31, 2019, respectively, which were transferred but not derecognized.

(2) Details of bonds payable as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019
SK Holdings Co., Ltd.	₩	6,410,000	₩ 6,330,000
SK Innovation Co., Ltd.		1,260,350	1,238,900
SK Energy Co., Ltd.		3,350,000	3,100,000
SK Global Chemical Co., Ltd.		1,560,000	1,160,000
SK Incheon Petrochem Co., Ltd.		1,690,000	1,780,000
SK Lubricants Co., Ltd.		930,000	630,000
SK Telecom Co., Ltd.		6,840,840	6,429,360
SK Broadband Co., Ltd.		1,860,210	1,807,340
Life & Security Holdings Co., Ltd.		18,682	12,514
SK Networks Co., Ltd.		1,080,000	1,360,000
SK Magic Co., Ltd.		320,000	200,000
SK Rent-a-Car Co., Ltd.		375,000	470,000
SKC Co., Ltd.		338,797	780,000
SKC Solmics Co., Ltd.		44,014	43,156
SK Telesys Co., Ltd.		30,000	30,000
SKC Hightech & Marketing Co., Ltd.		62,419	51,261
SK E&S Co., Ltd.		920,000	640,000
Paju Energy Service Co., Ltd.		730,000	730,000
Narae Energy Service Co., Ltd.		445,000	445,000
(formerly, Wirye Energy Service Co., Ltd.) (*1)			
SK Engineering & Construction Co., Ltd.		978,000	846,000
SK Materials Co., Ltd.		340,000	440,000
SK Siltron Co., Ltd.		725,000	910,000
		30,308,312	29,433,531
Addition: premium on bonds payable		75,825	96,671
Less: current portion		(4,006,568)	. ,
	₩	26,377,569	₩ 25,137,048

(*1) Narae Energy Service's bond amount is included in the prior year's amount.

15. Borrowings and bonds payable (cont'd)

(3) Details of long-term borrowings as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

Financial institution	Description	Interest rate (%)	June 30, 2020	December 31, 2019
Korea Development Bank and others	General	0.00 ~ 7.20	₩ 5,587,744	₩ 3,887,464
Korea Development Bank and others	Fund for facility	0.00 ~ 5.13	2,658,119	2,345,588
Standard Charted Bank and others	Foreign borrowings	1.70 ~ 8.00	1,230,608	1,150,492
Korea Energy Agency (*1)	Fund for mine exploration	0.00 ~ 7.00	79,922	77,066
Econg 1st Co., Ltd. and others	Callable preferred share	2.70 ~ 2.90	144,000	200,000
Korea Development Bank and others	Fund for operation	2.32 ~ 2.78	94,637	122,000
Korea Development Bank and others	Fund for supply pipeline	1.75	7,890	8,177
Shinhan Bank and others	Fund for reasonable energy consumption	1.75, 1.80	3,801	4,290
NH Bank	Fund for safety management	1.75	345	448
Citibank and others (*2)	Takeover	LIBOR(3M) + 0.95	192,112	185,248
		LIBOR(3M) + 0.80	237,633	-
MD Prime 1st Co., Ltd. and others	Others	3.07, 3.20	909,976	909,976
			11,146,787	8,890,749
Addition (less): premium (discount)			(28,367)	
Less: current portion			(1,426,479)	(<u>1,636,568</u>)
			<u>₩ 9,691,941</u>	₩ 7,237,113

- (*1) As of June 30, 2020 and December 31, 2019, the Group holds a loan amounting to ₩49,869 million and ₩48,090 million, respectively, Korea Energy Agency for the purpose of oil exploration and development in which there is no repayment obligation in case for failure in exploration.
- (*2) SK Global Chemical Americas, Inc. and SK Functional Polymer, S.A.S., the subsidiaries of the Group, have an obligation to reimburse the borrowings for business transfer to SK Global Chemical Co., Ltd. in the event of default in accordance with the loan guarantee contract.

Long-term borrowings presented above are to be repaid either in installments or all at once upon maturity. Financial instruments and other assets of the Group are pledged as detailed in Note 32.

16. Provisions

Changes in the provisions for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

		For the six months ended June 30, 2020										
	0	inning lance	Business combination	In	crease	Decrea		Ending balance	0	urrent	Nor curre	
	-											
Provision for sale warranties	₩	75,025	₩ -	₩	11,238 \	₩ (3	,984)₩	82,279	₩	4,665 ₩	∛ 7	7,614
Provision for service / construction warranties		93,034	-		9,828	(6	,178)	96,684		96,684		-
Provision for restoration		138,238	626		10,548	(5	,959)	143,453		58,608	8	4,845
Provision for onerous contracts		152,857	-		39) (9	,005)	143,891		143,891		-
Other provisions		335,545	2,129		138,162	(182	,469)	293,367		275,292	1	8,075
	₩	794.699	₩ 2.755	₩	169.815	₩ (207	.595)₩	759.674	₩	579.140 ₩	۲ ^۲	0.534

	For the six months ended June 30, 2019										
	Beginning				Ending				Non-		
	balance		Increase Decreas		ecrease	balance		Current		urrent	
Provision for sale warranties	₩	70,379	₩	6,154	₩	(3,102)	₩ 73,431	₩	3,656	₩	69,775
Provision for service / construction warranties		78,468		6,288		(6,545)	78,211		78,211		-
Provision for restoration		127,532		10,736		(4,361)	133,907		47,026		86,881
Provision for onerous contracts		99,476		345		(28,396)	71,425		71,425		-
Other provisions		253,307		64,184	((107,521)	209,970		111,790		98,180
	₩	629,162	₩	87,707	₩ ((<u>149,925</u>) ³	₩ 566,944	₩	312,108	₩	254,836

17. Defined benefit liabilities

(1) Details of defined benefit liabilities as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019			
Present value of defined benefit obligation	\overline{W}	3,384,569	₩	3,171,225		
Fair value of plan assets (*1)		<u>(2,732,790)</u>		<u>(2,763,924</u>)		
Total	\overline{W}	651,779	₩	407,301		

(*1) The Group has recognized ₩112 million and ₩7,381 million as defined benefit assets as of June 30, 2020 and December 31, 2019, respectively.

(2) Changes in the defined benefit liabilities for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	For the six months ended June 30, 2020							
		esent value						
	(of defined	Fair value of					
		benefit	Fair value of	Tatal				
	-	obligation	plan assets	Total				
Beginning balance	₩	3,171,225	₩ (2,763,924)₩	407,301				
Business combination		14,674	(10,382)	4,292				
Provision for pension benefits:								
Current service cost		222,185	-	222,185				
Past service cost		738	-	738				
Net interest expense (income)		33,488	(31,716)	1,772				
Remeasurement:								
Return on plan assets		-	3,970	3,970				
(excluding amounts included in net interest expenses)							
Actuarial changes arising from changes		63,826	-	63,826				
in financial assumptions and others								
Contributions by employer directly to plan assets		-	(68,887)	(68,887)				
Benefit paid		(161,364)	167,084	5,720				
Others		39,797	(28,935)	10,862				
Ending balance	₩	3,384,569	₩ (2,732,790) ₩	651,779				

17. Defined benefit liabilities (cont'd)

	For the six months ended June 30, 2019 Present value					
		of defined benefit	Fair value of			
		obligation	plan assets	Total		
Beginning balance	₩	2,741,488	₩ (2,353,187) ₩	388,301		
Provision for pension benefits:						
Current service cost		198,576	-	198,576		
Net interest expense (income)		32,749	(30,025)	2,724		
Remeasurement:						
Return on plan assets		-	6,624	6,624		
(excluding amounts included in net interest expense)						
Actuarial changes arising from changes		97,048	-	97,048		
in financial assumptions and others						
Contributions by employer directly to plan assets		-	(86,079)	(86,079)		
Benefit paid		(154,358)		7,752		
Others		<u> 30,691</u>	(19,965)	<u>10,726</u>		
Ending balance	₩	2,946,194	<u>₩ (2,320,522</u>) <u>₩</u>	625,672		

18. Other assets and liabilities

(1) Details of other assets as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019	_
Current assets:				
Short-term loans	₩	160,641	₩ 149,008	5
Accrued income		88,964	117,056	j
Advanced payments		768,644	796,264	
Prepaid expenses		2,805,633	2,682,533	5
Guarantee deposits		523,657	408,273	;
Derivative financial assets		126,689	78,699)
Lease receivables		26,399	28,172	2
Other contract assets		104,482	127,592	
Others		93,711	43,960)
	₩	4,698,820	₩ 4,431,557	, =
Non-current assets:				
Long-term prepaid expenses	₩	1,517,298	₩ 1,620,172	2
Long-term loans		780,149	698,135	j
Guarantee deposits		550,108	595,994	,
Derivative financial assets		473,580	302,529)
Long-term lease receivables		49,449	48,750)
Other long-term contract assets		44,891	64,359)
Defined benefit assets (*1)		112	7,381	
Others		187,612	114,302	<u>'</u>
	₩	3,603,199	₩ 3,451,622) -

(*1) The excess amount of certain plans in the Group has not been offset as there is no right or intention to settle the defined benefit obligation of other plans (see Note 17).

18. Other assets and liabilities (cont'd)

(2) Details of other liabilities as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019
Current liabilities:			
Accrued expenses	₩	3,149,905	₩ 3,320,952
Dividends payable		837	1,323
Advances received		2,103,527	2,062,132
Unearned revenue		61,847	88,545
Withholdings		2,100,170	2,159,448
Deposits received		256,086	218,090
Income tax payable		1,292,506	693,038
Derivative financial liabilities		58,654	44,587
Lease liabilities		1,105,680	1,172,062
Finance guarantee liabilities		345	345
Other contract liabilities		267,066	238,582
Others		22,286	33,329
	₩	10,418,909	₩ 10,032,433
Non-current liabilities:			
Long-term accrued expenses	₩	12,859	₩ 8,995
Long-term unearned revenue		564,696	508,839
Deposits received		231,472	263,442
Derivative financial liabilities		334,701	246,125
Long-term lease liabilities		2,956,546	2,897,181
Financial guarantee liabilities		16,529	15,569
Other long-term contract liabilities		32,341	32,236
Others (*1)		184,676	242,053
	₩	4,333,820	₩ 4,214,440

(*1) Includes long-term employee benefit liabilities amounting to ₩104,761 million and ₩96,377 million as of June 30, 2020 and December 31, 2019, respectively.

19. Derivative financial assets and liabilities

Details of derivative financial assets and liabilities as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

	June 30, 2020			December 31, 2019			2019	
	Current		Non-current		Current		No	n-current
Firm contracts	₩	9,458	₩	5,923	₩	(5,097)	₩	6,073
Swap contracts		4,888		(15,855)		31,373		(68,039)
Forward contracts		7,129		18,029		(1,103)		7,906
Futures contracts		5,170		816		6,819		(449)
Options contracts		41,390		129,966		2,120		110,913
	₩	68,035	₩	<u>138,879</u>	₩	34,112	₩	56,404
Derivative financial assets	₩	126,689	₩	473,580	₩	78,699	₩	302,529
Derivative financial liabilities		(58,654))	(334,701)		(44,587)		(246,125)

20. Equity

(1) Details of issued capital as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions, except for number of shares):

		June 30, 2020	December 31, 2019
Number of shares authorized for issue		400,000,000	400,000,000
Per share (Korean won)	\mathbb{W}	200	₩ 200
Number of shares issued:			
Ordinary share		70,360,297	70,360,297
Preferred share		566,135	566,135
Issued capital:			
Ordinary share	\mathbb{W}	15,272	₩ 15,272
Preferred share		113	113
	\overline{W}	15,385	₩ 15,385

The Company retired 6,000,000 shares of its treasury stock (par value: #1,200 million) in 2015 by reducing retained earnings, which resulted in a difference between total par value of ordinary shares and issued capital.

(2) Details of other paid-in capital as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019
Additional paid-in capital (*1)	₩	5,605,831	₩ 5,605,831
Treasury shares (*2)		(1,812,042)	(1,812,042)
Others		1,548,986	280,387
	\overline{W}	5,342,775	₩ 4,074,176

- (*1) During the year ended December 31, 2015, the Company repurchased treasury shares of ₩3,369,395 million from merger with the former SK Holdings Co., Ltd., which was recognized as a contra-equity account on additional paid-in capital.
- (*2) As of June 30, 2020, treasury shares consist of those acquired to increase the enterprise value and to stabilize share price (7,034,276 ordinary shares) and those acquired from repurchase of shares from dissenting shareholders on business combination and shares arising from odd lot shares (11,021,674 ordinary shares and 1,818 preferred shares) during the year 2015.

(3) Details of retained earnings as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019
Legal reserve (*1)	\mathbb{W}	7,693	₩ 7,693
Voluntary reserve		62,897	62,897
Unappropriated retained earnings		12,070,524	12,487,994
	\overline{W}	12,141,114	₩ 12,558,584

^(*1) In accordance with the Korean Commercial Code, an amount equal to at least 10% of cash dividends is required to be appropriated as a legal reserve until the reserve equals 50% of issued capital. The legal reserve may not be utilized for cash dividends but may only be used to offset a deficit, if any, or be transferred to issued capital through approval at the general meeting of the shareholders.

20. Equity (cont'd)

(4) Details of other components of equity as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019
Net loss on valuation of financial assets measured at FVOCI	₩	(19,625)	₩ (49,689)
Equity adjustments of investments in associates and joint ventures		19,130	8,429
Net gain on valuation of derivative instruments		45,748	5,947
Net gain on translation of foreign operation		364,991	72,937
	₩	410,244	₩ 37,624

(5) Upon resolution by the shareholders and the Board of Directors, the Group established a stock option program that entitles key management personnel an option to purchase ordinary shares. The terms and conditions related to the grants of the stock options granted under the share option program are as follows:

1) SK Holdings Co., Ltd.

	1-1	1-2	1-3	2	
Grant date	2017-03-24	2017-03-24	2017-03-24	2020-03-25	
Type of shares to be issued	Ordinary shares				
Grant method	Reissue of treasury shares, but if the stock option's exercise price lower than the stock's real price (evaluated based on exercise dat the Group may settle the difference in cash or with treasury sto equivalent to the difference amount.				
Number of shares (shares)	41,429	41,430	41,431	214,038	
Exercise price (Korean won)	₩ 226,290	₩ 244,400	₩ 263,950	₩ 153,450	
Contractual life of options	2019.03.25	2020.03.25	2021.03.25	2023.03.26	
	~2022.03.24	~2023.03.24	~2024.03.24	~2027.03.25	
Vesting conditions	2 years service from the grant date	3 years service from the grant date	4 years service from the grant date	2 years service from the grant date	

Share compensation expense recognized during the current reporting period is W426 million (total : W4,209 million), and the remaining share compensation expense to be recognized in later periods is W1,839 million.

The Group used the binomial option pricing model, and the inputs used in the measurement of the fair values at the grant date of the share-based payment plans are as follows (Korean won):

		1-1		1-2		1-3		2
Risk-free interest rate Option life		1.86% 5 years		1.95% 6 years		2.07% 7 years		1.61% 7 years
Expected price (Closing price on the preceding day in Korean won)	₩	236,000	₩	236,000	₩	236,000	₩	134,000
Expected volatility Rate of returns		16.78% 1.60%		16.78% 1.60%		16.78% 1.60%		15.35% 1.55%
Exercise price (Korean won)	₩	226,290	₩	244,400	₩	263,950	₩	154,450
Fair value per share (Korean won)	₩	38,317	₩	34,200	₩	30,962	₩	8,226

20. Equity (cont'd)

2) Subsidiaries of the Company established a stock option program that entitles key management personnel an option to purchase ordinary shares. Share-based compensation expenses recognized under the share option program are as follows (Korean won in millions):

	Current	Accumulated	Remaining	Total
Subsidiaries of SK Innovation Co., Ltd. $\overline{\mathbb{W}}$	246	₩ 1,770	₩ 180	₩ 1,950
Subsidiaries of SK Telecom Co., Ltd.	1,600	4,876	3,045	7,921
Subsidiaries of SK Networks Co., Ltd.	102	693	54	747
Subsidiaries of SKC Co., Ltd.	154	1,208	163	1,371
Subsidiaries of SK E&S Co., Ltd.	28	488	22	510
Others	36	601	393	994
\underline{W}	2,166	₩ 9,636	₩ 3,857	₩ 13,493

21. Selling and administrative expenses

Details of selling and administrative expenses for the three months and six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

		une 30,	, 2020	June 30, 2019			
	Three month	is	Six months	Three months	Six months		
Salaries	₩ 317	,536 ∛	₩ 667,896	₩ 282,028	₩ 583,574		
Provision for pension benefits	44	,399	109,563	26,041	57,082		
Employee welfare benefits	57	,959	137,274	61,343	115,601		
Travel	6	,877	20,827	19,390	36,130		
Bad debt expenses	20	,863	52,597	7,119	4,330		
Communications	2	,057	4,069	1,966	3,888		
Utilities	6	,533	16,075	7,281	15,691		
Taxes and dues	27	,985	52,031	18,445	39,186		
Supplies	7	,864	15,769	8,337	16,325		
Rents	47	,031	88,786	42,098	96,609		
Depreciation	91	,399	203,459	102,231	192,440		
Amortization	62	,530	120,263	53,744	106,499		
Repairs	7	,994	14,318	8,841	16,818		
Insurance	ç	,973	21,929	8,660	17,683		
Advertising	139	,075	246,266	161,106	274,331		
Research and development	55	,180	184,495	86,224	169,441		
Education and examination	5	,295	26,959	20,576	42,840		
Outsourcing technology service	s 258	,603	458,048	166,662	313,064		
Transport	75	,238	147,825	72,137	143,827		
Others	4(,152	73,359	30,658	61,301		
	₩ 1,284	. <u>,543</u>	₩ 2,661,808	₩ 1,184,887	₩ 2,306,660		

22. Finance income and expenses

Details of finance income and costs for the three months and six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	June 30, 2020				June 30, 2019				
	1	Three months		Six months	Thr	ee months		Six months	
Financial income:									
Interest income	₩	51,637	₩	108,372	₩	63,783	₩	131,351	
Gain on foreign currency transactions	;	338,665		795,346		345,812		486,261	
Gain on foreign currency translation		(42,798)		238,981		111,452		215,634	
Gain on transactions of derivatives		864,954		1,855,696		253,940		909,758	
Gain on valuation of derivatives		(638,612)		252,301		136,725		304,596	
Others		721		1,374		3,300		7,996	
	₩	574,567	₩	3,252,070	₩	915,012	₩	2,055,596	
		June 30), 20	20		June 30), 20 ⁻	19	
		Three months		Six months	Thr	ee months		Six months	
Financial expenses:									
Interest expenses	₩	353,062	₩	709,285	₩	331,043	₩	666,227	
Loss on foreign currency transactions	;	449,774		952,943		417,121		559,724	
Loss on foreign currency translation		(185,735)		243,819		82,965		234,923	
Loss on transactions of derivatives		913,010		1,803,566		301,666		1,022,612	
Loss on valuation of derivatives		(709,344)		112,256		180,113		263,587	
Others		206		883		<u>(18</u>)		393	
	₩	820,973	₩	3,822,752	₩	1,312,890	₩	2,747,466	

23. Other non-operating income and expenses

(1) Details of other non-operating income for the three months and the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

		June 30, 2020			June 30, 2019				
		Three months		Six months	Th	Three months		Six months	
Other non-operating income:									
Dividend income	₩	7,201	₩	13,315	₩	5,864	₩	17,574	
Rental income		234		622		147		285	
Gain on disposal of trade receivables		2,834		7,513		3,485		11,426	
Gain on disposal of investments in associates and joint ventures		460,684		704,076		20,413		34,220	
Gain on disposal of property, plant and equipment		52,080		57,565		3,819		6,327	
Gain on disposal of intangible assets		2,229		14,558		1,718		2,012	
Others		30,643		151,262		42,628		141,840	
	₩	555,905	₩	948,911	₩	78,074	₩	213,684	

23. Other non-operating income and expenses (cont'd)

(2) Details of other non-operating expenses for the three months and six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	June 30	0, 2020	June 30, 2019				
	Three months	Six months	Three months	Six months			
Other non-operating expenses:							
Loss on disposal of trade receivables \mathbb{W}	3,711	₩ 8,465	₩ 5,429	₩ 9,809			
Loss on impairment of investments in associates	-	434	58	58			
Loss on disposal of property, plant and equipment	202,205	271,615	17,201	37,743			
Loss on impairment of property, plant and equipment	232	80,629	2,253	2,899			
Loss on disposal of intangible assets	795	983	609	1,165			
Loss on impairment of intangible assets	14,303	14,794	20,485	20,574			
Donations	29,253	64,375	71,011	79,294			
Others	112,045	281,378	42,076	86,913			
\underline{W}	362,544	₩ 722,673	₩ 159,122	₩ 238,455			

24. Expense classified based on nature of expense

Details of classification based on nature of expenses for the three months and six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

		June 30, 2020				June 30, 2019				
		Three months		Six months	T	nree months		Six months		
Employee benefits	₩	1,523,433	₩	3,409,545	₩	1,657,583	₩	3,297,981		
Depreciation and amortization		1,964,259		3,871,267		1,846,030		3,613,573		
Network connection		208,543		405,844		190,737		381,827		
Transport		152,926		296,890		213,743		351,239		
Advertising		124,300		232,660		163,164		274,331		
Lease payments and rents		134,656		266,288		136,984		284,041		
Others		5,185,258		9,452,444		4,089,326		8,133,897		
Use of raw materials and purchase of finished goods and merchandise		9,064,123		24,772,204		15,817,172		31,722,206		
Changes in finished goods and										
semi-finished good		234,402		527,019		(425,303)		(383,823)		
	₩	18,591,900	₩	43,234,161	₩	23,689,436	₩	47,675,272		

25. Income taxes

The Group calculated income tax expense by adding the current period adjustments to the accumulated interim tax expense, reflecting deferred tax expense (income) due to changes in temporary differences and considering adjustments not related to the interim profit or loss.

The average effective tax rate is not calculated during the six months ended June 30, 2020 due to pretax losses, and the average effective tax rate for continuing operations during the six months ended June 30, 2019 is 32.27%.

26. Earnings (losses) per share

(1) Basic earnings (losses) per share for the three months and six months ended June 30, 2020 and 2019 are as follows (Korean won in millions, except per share and weighted-average number of ordinary shares outstanding):

		June 30, 2020				June 30, 2019				
		Three months		Six months		Three months		Six months		
Profit (loss) for the period attributable to owners of the parent	₩	11,141	₩	(176,299)	₩	117,402	₩	577,803		
Less: preferred share dividends		(1,136)		(1,707)		(1,136)		(1,707)		
Profit (loss) for the period attributable to ordinary share owners of the parent		10,005		(178,006)		116,266		576,096		
Weighted-average number of ordinary share outstanding (*1)		52,304,347		52,034,347		55,824,347		55,824,347		
Basic earnings (losses) per share (In Korean won)	₩	191	₩	(3,403)	₩	2,083	₩	10,320		

(*1) The weighted-average number of ordinary share outstanding is calculated by multiplying the number of shares issued by the portion of the reporting period those shares covered. The treasury shares held until the disposal date, after the date of acquisition, are excluded from the number of ordinary shares outstanding.

The basis of calculating the weighted-average number of ordinary shares for the three months and six months ended June 30, 2020 and 2019 are as follows:

	June 30,	2020	June 30, 2019			
	Three months	Six months	Three months	Six months		
Weighted-average number of shares outstanding	70,360,297	70,360,297	70,360,297	70,360,297		
Weighted-average number of treasury shares	(18,055,950)	(18,055,950)	(14,535,950)	(14,535,950)		
Weighted-average number of issued shares outstanding	52,304,347	52,304,347	55,824,347	55,824,347		

(2) Basic earnings (losses) per share from continuing operations

Basic earnings (losses) per share from continuing operations for the three months and the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions, except basic earnings (losses) per share and weighted-average number of ordinary shares outstanding):

		June 30, 2020				June 30, 2019				
	-	Three months		Six months		Three months		Six months		
Profit (loss) for the period attributable to owners of the parent	₩	10,005	₩	(178,006)	₩	116,266	₩	576,096		
Deduction: gain (loss) from discontinued operations		42,081		23,067		(582)		(4,040)		
Profit (loss) for the period from continuing operations attributable to owners of the paren ordinary share owners of the parent Weighted-average number of	t	(32,076)		(201,073)		116,848		580,136		
ordinary shares outstanding Basic earnings (losses) per share from		52,304,347		52,304,347		55,824,347		55,824,347		
continuing operations (In Korean won)	₩	(613)	₩	(3,844)	₩	2,093	₩	10,392		

26. Earnings (losses) per share (cont'd)

(3) Basic earnings (losses) per share from discontinued operations

Basic earnings (losses) per share from discontinued operations for the three months and six months ended June 30, 2020 and 2019 are as follows (Korean won in millions, except basic earnings (losses) per share and weighted-average number of ordinary shares outstanding):

		June 30	20	June 30, 2019				
		Three months		Six months	Three months			Six months
Gain (loss) from discontinued operations Weighted-average number of	₩	42,081	₩	23,067	₩	(582)	₩	(4,040)
ordinary shares outstanding Basic earnings (losses) per share from		52,304,347		52,304,347		55,824,347		55,824,347
discontinued operations (In Korean won)	₩	804	₩	441	₩	(10)	₩	(72)

27. Transactions with related parties

Balances on transactions arising from intercompany transactions within the Group were eliminated in preparing the interim condensed consolidated financial statements for the six months ended June 30, 2020 and 2019.

(1) Details of significant transactions with the related parties for the three months and six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

		June 30, 2020								
		Sales,	etc.	Expenses, etc.						
	Company name	Three months	Six months	Three months	Six months					
Other	Daehan Oil Pipeline Corporation	₩ 813 ₩	₩ 4,728	₩ 14,114	₩ 30,469					
related	SABIC SK Nexlene Company Pte. Ltd.	71	141	41,601	75,390					
parties	Korea Nexlene Company	36,225	85,224	4	6					
	Best Oil Company Limited	113,132	279,358	-	-					
	Asia Bitumen Trading Pte. Ltd.	9,861	32,528	-	1,982					
	Hana land chip PEF 33	-	8,036	8,593	17,187					
	F&U Credit Information Co., Ltd.	756	1,258	13,687	26,468					
	Wave City Development Co., Ltd.	13,320	24,973	10	10					
	SK Hynix Inc.	901,529	1,857,591	17,789	22,557					
	SK Hynix Semiconductor (China) Ltd.	85,150	189,532	535	931					
	SK Hynix semiconductor (Chongqing) Ltd	4,422	11,028	-	-					
	SK Hynix Semiconductor HK Ltd.	-	-	149,245	364,711					
	SK Hynix System IC Co., Ltd.	18,972	39,595	-	-					
	Happynarae Co., Ltd.	11,193	21,276	117,860	200,139					
	SKC Evonik Peroxide Korea Co., Ltd.	-	3,674	8,807	22,359					
	Mitsui Chemicals & SKC Polyurethanes, Inc.	44,625	99,298	3,732	8,509					
	Boryeong LNG Terminal Co., Ltd.	37,181	49,097	15,308	34,013					
	Huizhou EVE United Energy Co., Ltd	19,794	29,544	39,392	56,987					
	Eurasia Tunnel	727	2,028	-	-					
	Xe-Pian Xe-Namnoy Power Company	5,293	15,413	-	-					
	Others	32,315	55,943	49,812	84,522					
Others (*1)	Ulsan Aromatics Co., Ltd.	11,081	23,827	19,503	40,530					
	SK Chemicals Co., Ltd	21,227	53,332	26,579	48,660					
	SK Gas Co., Ltd.	7,689	14,292	48,786	158,450					
	Ubins Co., Ltd.	132	314	21,848	36,858					
	Others	7,503	16,877	11,107	47,279					
Total		<u>₩ 1,383,011</u> <u>₩</u>	<u>₹ 2,918,907</u>	₩ 608,312	<u>₩ 1,278,017</u>					

27. Transactions with related parties (cont'd)

		June 30, 2019							
			Sales,	, etc.	Expenses, etc.				
	Company name	Three m	nonths	Six months	Three	months	Six	months	
Other	Daehan Oil Pipeline Corporation	₩	263	₩ 4,850	₩	12,676	₩	26,709	
related	SABIC SK Nexlene Company Pte. Ltd.		107	211		49,004		95,132	
parties	Korea Nexlene Company	4	45,832	87,949		6		12	
	Hana land chip PEF 33		-	8,036		8,593		17,187	
	F&U Credit Information Co., Ltd.		637	1,274		14,279		28,654	
	Wave City Development Co., Ltd.		13,407	22,419		-		-	
	SK Hynix Inc.	73	39,980	1,700,761		4,834		10,876	
	SK Hynix Semiconductor (China) Ltd.		76,345	176,182		637		1,118	
	SK Hynix Semiconductor HK Ltd.		-	-		217,501		393,388	
	SK Hynix System IC Co., Ltd.		17,031	32,803		-		-	
	Happynarae Co., Ltd.		18,373	37,312		115,167		195,498	
	SKC Evonik Peroxide Korea Co., Ltd.		-	3,806		12,544		26,254	
	Mitsui Chemicals & SKC Polyurethanes, Inc.	4	40,975	105,260		5,005		10,980	
	Boryeong LNG Terminal Co., Ltd.		10,884	25,993		22,444		42,725	
	Huizhou EVE United Energy Co., Ltd		1,382	1,739		-		-	
	Eurasia Tunnel		1,742	2,072		-		-	
	Xe-Pian Xe-Namnoy Power Company	:	37,028	65,851		-		-	
	Others		9,398	33,043		14,286		41,407	
Others	SK Chemicals Co., Ltd.	:	25,287	72,739		34,651		59,561	
	SK Gas Co., Ltd.	1	87,541	104,160		63,593		116,089	
	SK Shipping Co., Ltd. (*2)		-	2,188		-		83,648	
	Ubins Co., Ltd.		356	356		41,569		41,569	
	Others		14,972	22,232		11,928		19,474	
Total		₩ 1,14	41,540	₩ 2,511,236	₩	628,717	₩	1,210,281	

(*1) Although, not designated as related parties as defined in KIFRS 1024, the entity belongs to the same conglomerate affiliates under *Monopoly Regulation and Fair Trade Act*.

(*2) As of February 19, 2019, the entity was excluded from the 'SK' conglomerate affiliates under the *Monopoly Regulation and Fair Trade Act.*

27. Transactions with related parties (cont'd)

(2) Details of significant outstanding balances of receivables and payables with the related parties as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020 December 31, 20					
		Re	ceivables		Re	eceivables	
	Company name		(*1)	Payables		(*1)	Payables
Other	Daehan Oil Pipeline Corporation	₩	603 ₩	2,249	₩	100	₩ 2,946
related	SABIC SK Nexlene Company Pte. Ltd.		2,373	29,643		2,943	19,851
parties	Korea Nexlene Company		13,454	105		7,552	249
	Best Oil Company Limited		108,441	39,436		133,858	38,026
	Asia Bitumen Trading Pte. Ltd.		7,967	-		7,011	-
	Hana land chip PEF 33		5,983	25,607		5,983	42,464
	Korea Consortium Kazakh B.V. (*2)		146,170	-		146,170	-
	F&U Credit Information Co., Ltd.		23	5,191		8	4,869
	HanaCard Co., Ltd.		919	103,838		1,025	9,474
	Wave City Development Co., Ltd.		57,562	11		57,562	-
	SK Hynix Inc.		495,027	109,272		602,213	124,954
	SK Hynix Semiconductor (China) Ltd.		35,612	524		123,739	816
	SK Hynix Semiconductor (Chongqing) Ltd.		12,251	91		11,420	96
	SK Hynix Semiconductor HK Ltd.		-	42,577		-	37,823
	SK Hynix System IC Co., Ltd.		22,340	55		20,189	38
	Happynarae Co., Ltd.		5,957	29,726		13,875	43,110
	SKC Evonik Peroxide Korea Co., Ltd.		-	2,336		2	5,267
	Mitsui Chemicals & SKC Polyurethanes, Inc.		30,687	2,717		34,231	2,907
	Boryeong LNG Terminal Co., Ltd.		18,280	3,985		3,338	166
	Pentaport Development Co., Ltd.		78,377	1		79,532	-
	Huizhou EVE United Energy Co., Ltd		361,316	46,763		280,324	-
	Eurasia Tunnel		26,865	-		37,338	-
	SK E&C JURONG Investment Singapore Pte. Ltd. (*2)		59,914	-		59,914	-
	Xe-Pian Xe-Namnoy Power Company		145,810	26,004		136,478	26,629
	Others		49,612	26,222		51,653	21,729
Others (*3)	Ulsan Aromatics Co., Ltd.		3,855	7,030		4,132	8,005
	SK Chemicals Co., Ltd.		17,557	1,869		17,652	10,195
	SK Gas Co., Ltd.		2,537	259,204		3,150	307,731
	Ubins Co., Ltd.		55	7,672		92	25,832
	Others		13,732	16,539		7,935	15,106
		₩	<u>1,723,279</u> ₩	788,667	₩	1,849,419	₩ 748,283

(*1) The Company recognized bad debt expense and reversal of bad debt each amounting to ₩1,791 million and ₩(-)1,781 million for the six months ended June 30, 2020 (for the six months ended June 30, 2019: bad debt expense of ₩8 million, write-off and others of ₩(-)2,917 million). The Company recognized the allowance for doubtful accounts amounting to ₩312,255 million and ₩312,245 million as of June 30, 2020 and December 31, 2019, respectively.

(*2) As of June 30, 2020 and December 31, 2019, the Group recognized loss allowances in entirety for the corresponding receivables.

(*3) Although, not designated as related parties as defined in KIFRS 1024, the entity belongs to the same conglomerate affiliates under *Monopoly Regulation and the Fair Trade Act.*

27. Transactions with related parties (cont'd)

(3) Details of significant treasury transactions with related-parties for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions and foreign currencies in thousands):

		June 30, 1	2020	June 30,	2019
Company name	Currency	Loans	Collection	Loans	Collection
Kinestral Technologies Inc.	USD	-	2,483	-	-
Yemen LNG Company Ltd.	USD	3,751	-	5,570	-
Eurasia Tunnel	KRW	3,963	15,853	9,783	13,872
Huizhou EVE United Energy Co., Ltd.	KRW	73,847	-	2,324	-

(4) There were additional capital contribution transactions for investments in associates and joint ventures for the six months ended June 30, 2020 and 2019 (see Note 9 'Investments in associates and joint ventures').

(5) Compensation for key management personnel of the Company.

Key management personnel consists of registered executives who are responsible for the planning, operation and control of the Company's business activities. Details of compensation for them for the three months and the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

		June 30, 2020				June 30, 2019			
	Thre	Three months Six months		Three months		Six months			
Salaries	\mathbb{W}	3,757	₩	7,130	₩	2,903	₩	5,782	
Provision for pension benefits		944		5,658		366		1,808	
Share compensation expense		227		426		198		580	
Total	₩	4,928	₩	13,214	₩	3,467	₩	8,170	

28. Discontinued operations

(1) Details of discontinued operations

SK Networks Co., Ltd., a subsidiary of the Group, decided to discontinue operations of non-core businesses by selling resource business and others in order to strengthen financial soundness and secure investment funds before the previous year. The oil retail business, which was classified as discontinued operations, has been sold in June 2020.

SKC Co., Ltd., a subsidiary of the Group, decided to discontinue the EVA solar energy business in order to promote efficiency in the solar energy business due to the deterioration in market condition of solar energy industry and intensification of market competition caused by China for the six months ended June 30, 2020.

28. Discontinued operations (cont'd)

(2) Gain and loss from the discontinued operation for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	For the six months ended June 30, 2020							
	Oil retail business in SK Networks Co., Ltd.		Resource business and others in SK Networks <u>Co., Ltd.</u>		EVA solar business in SKC Co., Ltd.			Total
Revenue	₩	511,945	₩	15,756	₩	6,626	₩	534,327
Expenses		402,623		17,052		43,738		463,413
Gain (loss) before income tax expense		109,322		(1,296)		(37,112)		70,914
Income tax benefit (expense) Gain (loss) from discontinued		26,456		(6,642)				19,814
operations	₩	82,866	₩	5,346	₩	(37,112)	₩	51,100
Owners of the parent	₩	36,817	₩	2,375	₩	(16,125)	₩	23,067
Non-controlling interests		46,049		2,971		(20,987)		28,033

	For the six months ended June 30, 2019							
			Re	esource				
	C	il retail	bu	usiness				
	bu	siness in	and	others in	EVA solar			
	SK	Networks	SK Networks		business in SKC			
	C	o., Ltd.	C	o., Ltd.	C	o., Ltd.		Total
Revenue	\mathbb{W}	560,788	₩	22,298	₩	32,288	₩	615,374
Expenses		569,437		24,285		31,414		625,136
Gain (loss) before income tax expense		(8,649)		(1,987)		874		(9,762)
Income tax benefit (expense)		<u>(2,111</u>)		1,401		22		<u>(688</u>)
Gain (loss) from discontinued								
operations	₩	(6,538)	₩	<u>(3,388</u>)	₩	852	₩	(9,074)
Owners of the parent	\mathbb{W}	(2,905)	₩	(1,505)	₩	370	₩	(4,040)
Non-controlling interests		(3,633)		(1,883)		482		(5,034)

(3) Details of cash flows relating to discontinued operations for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	For the six months ended June 30, 2020						
		Resource					
	Oil retail	business					
	business in	and others in	EVA solar				
	SK Networks	SK Networks	business in SKC				
	Co., Ltd.	Co., Ltd.	Co., Ltd.	Total			
Cash flows from operating activities	₩ (76,112)) ₩ (11,210)	₩ 1,289	₩ (86,033)			
Cash flows from investing activities	1,269,922	(1,174)	110	1,268,858			
Cash flows from financing activities	-	(3,243)	(778)	(4,021)			

28. Discontinued operations (cont'd)

	For the six months ended June 30, 2019						
			Re	source			
	С	il retail	bu	siness			
	bus	siness in	and	others in	EV	'A solar	
	SK	Networks	SK N	letworks	busine	ess in SKC	
	C	o., Ltd.	Co	o., Ltd.	C	o., Ltd.	Total
Cash flows from operating activities	₩	41,001	₩	(1,884)	₩	(12,262) ₩	26,855
Cash flows from investing activities		(7,995)		(676)		(110)	(8,781)
Cash flows from financing activities		-		(5,689)		(1,272)	(6,961)

29. Assets and liabilities held for sale

Details of non-current assets and non-current liabilities held for sale as of June 30, 2020 are as follows (Korean won in millions):

			June 30, 2	020
			Assets	Liabilities
Business segment	Resources business segment and others (*1)	₩	181,204 ₩	96,212
	Ferrite business		2,000	-
Subsidiaries	Daiyang SK Networks San. VE TIC. Ltd. STI		765	654
Investment securities	KOSCOGASTECH Co., Ltd.		800	-
Property, plant and equipment	Land and others (*2)		67,000	-
	Land and building		572	-
Intangible assets and others	E&P 56, 88 mining area (*3)		679,330	8,975
		$\overline{\mathbb{W}}$	<u>931,671</u> ₩	105,841

- (*1) SK Networks Co., Ltd., a subsidiary, decided to discontinue resources business segment and others before the prior reporting period. The Group classified related assets and liabilities as held-for-sale and measured them at the lower of their carrying amounts and fair value less costs to sell.
- (*2) SK Incheon Petrochemical Co., Ltd., a subsidiary, classified related assets as assets held-forsale as the entity signed a contract for the sale of land in Seoknam-dong, western Incheon, in 2018 and the entity measured it at the lower of its fair value less costs to sell and carrying amount.
- (*3) SK Innovation Co., Ltd., a subsidiary, entered into a contract to sell its entire stake in the 56th and 88th Peru blocks to Pluspetrol for the purpose of adjusting its E&P portfolio and converting its business model during the previous period. The sale will be completed during the following period. The assets held for sale are measured at the lower of fair value less costs to sell and carrying amount.

30. Cash flow information

(1) Details of non-cash adjustments for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	For the six n	nonths ended
	June 30, 2020	June 30, 2019
Provision for pension benefits	₩ 224,695	₩ 201,300
Depreciation	3,097,154	2,893,996
Amortization	778,359	739,215
Bad debt expenses	52,597	4,091
(Reversal of) Valuation loss on inventories	22,066	(181,466)
Interest expenses	732,550	696,829
Loss on foreign currency translation	248,509	234,962
Loss on valuation of derivatives	112,256	263,653
Loss on disposal of trade receivables	8,465	-
Loss on disposal of investments in associates	434	58
Loss on disposal of property, plant and equipment	273,991	41,177
Loss on impairment of property, plant and equipment	80,698	2,899
Loss on disposal of intangible assets	1,551	1,165
Loss on impairment of intangible assets	16,878	20,574
Income tax expense	78,357	702,278
Gain on investments in associates and joint ventures	(368,057)	
Interest income	(109,134)	(132,374)
Gain on foreign currency translation	(243,730)	(215,716)
Gain on valuation of derivatives	(252,301)	(304,659)
Dividends income	(13,315)	
Gain on disposal of trade receivables	(7,513)	(, ,
Gain on disposal of investments in associates and joint ventures	(704,076)	
Gain on disposal of property, plant and equipment	(60,289)	
Gain on disposal of intangible assets	(14,558)	(, ,
Others	(2,100)	
	₩ 3,953,487	₩ 4,485,834

(2) Details of working capital adjustments for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	For the six months ended				
		June 30, 2020	June 30, 2019		
Inventories	₩	2,361,687	₩ 33,040		
Trade receivables		2,103,444	158,321		
Other receivables		61,264	80,354		
Trade payables		(1,877,649)	(256,706)		
Other payables		(238,142)	(397,018)		
Advances received		56,163	(362,957)		
Retirement benefits paid		(121,567)	(123,667)		
Plan assets		69,262	56,066		
Others		(270,393)	(434,636)		
	₩	2,144,069	₩ (1,247,203)		

(3) Significant non-cash transactions for the six months ended June 30, 2020 and 2019 are as follows (Korean won in millions):

	For the six months ended			
		June 30, 2020	June 30	, 2019
Decrease in other payables due to acquisition of property, plant and equipment and others	₩	(186,499)	₩	(155,420)
Account reclassification of lease liabilities from changes in accounting policies		-		2,896,860

31. Commitments and contingencies

(1) Guarantees provided for the Group as of June 30, 2020 are as follows (Korean won in millions and foreign currencies in thousands):

Guarantee	Guarantor	Currency	Amount	Description of guarantee
SK Holdings Co., Ltd.	Korea Software Financial	KRW	356,220	Performance guarantees for contract and others
5 - ,	Corporation		, -	5
	Seoul Guarantee Insurance	KRW	125	Performance guarantees for contract and others
Netruck Co., Ltd.	Seoul Guarantee Insurance	KRW		Performance insurances for warranties and others
SK Telink Co., Ltd.	Seoul Guarantee Insurance	KRW		Performance guarantees for contract
SK Planet Co., Ltd.	Hana Bank	KRW		Performance insurances for warranties and others
- ,	Seoul Guarantee Insurance	KRW	3.141	Performance guarantees for contract and others
	and others		-,	· · · · · · · · · · · · · · · · · · ·
SK Broadband Co., Ltd.	Seoul Guarantee Insurance	KRW	30.387	Guarantee of warranties contract and others
SK Infosec Co., Ltd.	Korea Software Financial	KRW	,	Guarantee of bid payment and others
0111110000 001, 214	Cooperative		00,200	
SK M & Service Co., Ltd.	Seoul Guarantee Insurance	KRW	1 561	Guarantee of payment and others
PS&Marketing Corp.	Seoul Guarantee Insurance	KRW		Performance guarantees
Dreamus company Co., Ltd.	Seoul Guarantee Insurance	KRW		Performance guarantees for contract
One store Co., Ltd.	Seoul Guarantee Insurance	KRW		Guarantee for E-commerce and others
One store Co., Etd.	Hana Bank	KRW		Performance guarantees for contract
Home? Service Co. 1td	Seoul Guarantee Insurance	KRW		Guarantee of debt
Home&Service Co., Ltd.				
SK Store Co., Ltd.	Kookmin Bank	KRW		Performance guarantees and others
11street Co., Ltd.	Hana Bank	KRW		Performance guarantees and others
	Seoul Guarantee Insurance	KRW		Guarantee of deposit on lease and others
FSK L&S Co., Ltd.	Seoul Guarantee Insurance	KRW		Performance guarantees for contract and others
Service Top Co., Ltd.	Seoul Guarantee Insurance	KRW	450	Performance guarantees for contract
SK Networks Co., Ltd.	Hana Bank	KRW		Guarantee of payment
		USD	660	Guarantee of bid
	Woori Bank	KRW	547	Performance guarantees for sales contract
	Seoul Guarantee Insurance	KRW		Performance guarantees for contract
	Korea Trade Insurance	KRW		Guarantee of debt
	Corporation			
SK Networks Service	Seoul Guarantee Insurance	KRW	11.294	Performance guarantees for sales contract
Co., Ltd.	Hana Bank	KRW		Performance guarantees for contract
SK Magic Co., Ltd.	Seoul Guarantee Insurance	KRW	,	Performance insurances for warranties and others
ert magie ee, Eta.	Machinery Financial Cooperative	KRW		Performance insurances for warranties and others
SK Magic Service Co., Ltd.	Seoul Guarantee Insurance	KRW		Guarantee of payment and others
SK Pinx Co., Ltd.	Seoul Guarantee Insurance	KRW		
,				Performance guarantees for sales contract
SK Rent-a-Car Co., Ltd.	Seoul Guarantee Insurance	KRW		Performance guarantees for contract
SK Telesys. Co., Ltd.	Seoul Guarantee Insurance	KRW	,	Performance insurances for warranties and contract
SK Bioland Co., Ltd.	Seoul Guarantee Insurance	KRW		Performance guarantees
SKC Solmics Co., Ltd.	Shinhan Bank	USD		Guarantee of FRN issue
SKC Hightech & Marketing	Hana Bank	USD	27,000	Guarantee of FRN issue
Co., Ltd.				
SK Nexilis Co., Ltd. (Formerly,		KRW		Guarantee of payment
KCF Technologies Co., Ltd.)		KRW		Guarantee of payment
SK E&S Co., Ltd.	Seoul Guarantee Insurance	KRW	6,793	Performance guarantees and others
	Kookmin Bank	USD	80,000	Guarantee of debt
	Shinhan Bank	USD	80,000	Guarantee of debt
Yeongnam Energy Service	Seoul Guarantee Insurance	KRW	1,363	Guarantee of warranties and approval
Co., Ltd.				
Chonnam Energy Service	Seoul Guarantee Insurance	KRW	252	Guarantee of warranties and payment
Co., Ltd.				
Pusan City Gas Co., Ltd.	Seoul Guarantee Insurance	KRW	1.537	Guarantee of seizure contract and others
Jeonbuk Energy Service	Seoul Guarantee Insurance	KRW	,	Performance guarantees and warranties
Co., Ltd.	eeea eaaranee mearanee		2.0	r onomianoo gaalamooo aha hahahaoo
Chungcheong Energy	Seoul Guarantee Insurance	KRW	1 075	Performance insurances for warranties and others
Service Co., Ltd.	Seoul Ouarantee Insurance		1,075	r enormance insurances for warranties and others
Ko-one Energy Service	Seoul Guarantee Insurance	KRW	1 536	Performance guarantees for contract
	Seoul Guarantee Insurance		1,550	Performance guarantees for contract
Co., Ltd.			640	Desferments and ferrenewal and athene
Paju Energy Service	Seoul Guarantee Insurance	KRW	610	Performance guarantees for approval and others
Co., Ltd.				• · · · · · · · · ·
Narae Energy Service	Seoul Guarantee Insurance	KRW	209	Guarantee of license to use state property
Co., Ltd. (formerly, Wirye				and others
Energy Service. Co., Ltd.)				
Kangwon City Gas Co., Ltd.	Seoul Guarantee Insurance	KRW		Performance guarantees for contract and approval
Yeoju Energy Service	Seoul Guarantee Insurance	KRW	1,219	Performance guarantees for deposit on approval
Co., Ltd.				and others

Guarantee	Guarantor	Currency	Amount	Description of guarantee
SK Engineering & Construction Co., Ltd.	HSBC and others	KRW	5,764	Performance guarantees for overseas construction and others
Construction Co., Etc.		USD	703,304	Performance guarantees
		EUR	1,535	for overseas construction and others Performance guarantees
		SGD	18,329	for overseas construction and others Performance guarantees
		KWD	106,478	for overseas construction and others Performance guarantees
		QAR	499.062	for overseas construction and others Performance guarantees
		TRY		for overseas construction and others Performance guarantees
		SAR		for overseas construction and others
				Performance guarantees for overseas construction and others
		THB	327,088	Performance guarantees for overseas construction and others
		KZT	7,568,929	Performance guarantees for overseas construction and others
		VND	747,500,129	Performance guarantees for overseas construction and others
		HKD	20,061	Performance guarantees for overseas construction and others
		IQD	2,860,000	Performance guarantees
		AED	132,246	for overseas construction and others Performance guarantees
		INR	61,200	for overseas construction and others Performance guarantees
	Hana Bank	USD	161,337	for overseas construction and others Performance guarantees
		GBP	29.571	for overseas construction and others Performance guarantees
		EUR		for overseas construction and others Performance guarantees
	Korea Eximbank	USD	,	for overseas construction and others Performance guarantees
	Kolea Eximpank			for overseas construction and others
		SAR		Performance guarantees for overseas construction and others
		VND	14,077,332	Performance guarantees for overseas construction and others
		EUR	60,750	Performance guarantees for overseas construction and others
	Korea Housing Guarantee Co., Ltd. Seoul Guarantee Insurance	KRW KRW		Housing guarantees and others Performance guarantees for domestic construction
				and others
	Engineering Financial Cooperative Construction Guarantee Cooperative	KRW KRW		Domestic construction contract Performance guarantees for domestic construction and others
SK TNS Co., Ltd. SK Materials Co., Ltd.	ICFC Seoul Guarantee Insurance	KRW KRW	299,738	Performance guarantees for domestic construction Performance guarantees
SK Siltron Co., Ltd.	Shinhan Bank	USD		Guarantee of foreign currencies
SK Forest Co., Ltd.	Construction Guarantee Cooperative	KRW		Performance guarantees for contract
Hweechan Co., Ltd.	Seoul Guarantee Insurance Seoul Guarantee Insurance	KRW KRW		Performance guarantees for contract Guarantee of supply and others

In addition, SK Engineering & Construction Co., Ltd., a subsidiary of the Group, has performance guarantees for domestic construction by other construction companies amounting to #355,777 million as of June 30, 2020.

(2) Guarantees provided to others as of June 30, 2020 are as follows (Korean won in millions and foreign currencies in thousands):

Guarantee	Guarantor	Currency	Amount	Description of guarantee
SK Innovation Co., Ltd.	Petro Peru and others	USD	2,139	Performance guarantees for mandatory work and others
SK Global Chemical Co., Ltd.	Sabic SK Nexlene Company Pte. Ltd.	USD	220,000	Performance guarantees
Iberian Lube Base Oils S.A.	Puertos del Estado	EUR	879	Guarantees for construction
	Railway Administration and others	EUR	278	Guarantee for installing facilities and others
SK Telink Co., Ltd.	IOT Wave Co., Ltd. and others	KRW	1,241	Performance guarantees for insurance and others
SK Communications Co., Ltd.	Green umbrella	KRW	40	Performance guarantees for contract
Dreamus Company Co., Ltd.	Youngkwang Precision Industry Co., Ltd.	KRW	755	Performance guarantees for contract
SKC Co., Ltd.	PI Advanced Materials Co., Ltd. (formerly SKC-Kolon PI Co., Ltd.)	USD	6,750	Guarantee for litigation
SK E&S Co., Ltd.	Boryeong LNG Terminal Co., Ltd.	KRW	360,000	Guarantee of debt
SK TNS Co., Ltd.	Korea Development Bank	KRW	44,000	Cash deficiency support agreement for Callable preferred share
SK Engineering & Construction Co., Ltd.	SBC General Trading & Contracting Co. WLL and others	KWD	6,946	Performance guarantees for contract and others
	Pohang Clean Water Co., Ltd. and others	KRW	741,839	Cash deficiency support agreement
	Gwangan District 2 redevelopment maintenance business association	KRW	269,850	Guarantees for reconstruction project financing
	Customers of Songdo SK view lake	KRW	839,140	Guarantee of debt
	Lu 1 City SK leaders view and others	KRW	1,877,734	Guarantee of completion
	Member of employee stock ownership association	KRW	2,466	Guarantee of payment
	Callable preferred share investor	KRW	130,000	Cash deficiency support agreement

In addition, SK Engineering & Construction Co., Ltd., a subsidiary of the Group, provides other construction companies with performance guarantees for domestic construction, and the amount of the guarantees is $\frac{1}{743,085}$ million as of June 30, 2020.

(3) The Group's significant pending litigations as of June 30, 2020, in which the Group is a plaintiff are as follows (Korean won in millions):

Plaintiff	Defendant	Description	Claim	Status
Life & Security Holdings Co., Ltd.	Individual and others	Claim for injuction to ban of transfer and others	KRW 2,1	6 First trial in progress
PS&Marketing Corp.	Individual and others	Claim for payment and others	KRW 5	8 First trial in progress and others
SK Networks Co., Ltd.	Individual and others	Claim for payment and others	KRW 2,8	1 First trial in progress and others
SK Magic Co., Ltd.	Careswater Co., Ltd.	Claim for payment and others	KRW 2,3	2 First trial in progress and others
SK Networks Service Co., Ltd.	Individual	Claim for payment	KRW	52 First trial in progress
SK Rent-a-Car Co., Ltd.	Individual and others	Claim for payment and others	KRW	1 First trial in progress and others
SK Telesys Co., Ltd.	TaiYoung tech Co., Ltd. and others	Claim for payment and others	KRW 1,7	4 First trial in progress
Pusan City Gas Co., Ltd.	YCP Co., Ltd. and others	Claim for settlement and others	KRW 4,8	84 First trial in progress
SK Engineering & Construction Co., Ltd.	K-Water Resources Corporation	Claim for payment of construction	KRW 4,9	9 Third trial in progress
	Korea Rail Network Authority	Claim for payment of construction and others	KRW 14,0	2 Second trial in progress and others
	Korea Specialty Contractor Claim for deposit of construction Finanacial Cooperative performance		KRW 6	20 First trial in progress
	Dream Hub PFV	Claim for payment of construction	KRW 12,7	28 Second trial in progress
	Plant & Mechanical Contractors Financial Cooperative and other	Claim for payment and others s	KRW 7	2 Second trial in progress and others
	Korea National Oil Corporation	Claim for payment of construction	KRW 14,1	2 First trial in progress
	Republic of Korea and others	Claim for payment of construction and others	KRW 14,7	34 Second trial in progress and others
	Korea Highway Corporation Claim for cost of construction and others		KRW 21,9	60 First trial in progress and others
	Korea Land & Housing Corporation	Claim for payment of construction	KRW	4 First trial in progress
	Korea Gas Corporation			31 Second trial in progress
	Busan-Jinhae Free Economic Zone Authhority	Claim for payment of construction		9 First trial in progress
	Individual and others	Claim for payment of construction and others	KRW 11,3	'6 First trial in progress

The Group's significant pending litigations as of June 30, 2020, in which the Group is a defendant are as follows (Korean won in millions):

Plaintiff	Defendant	Description	Cla	aim	Status
Individual and others	Life & Security Holdings Co., Ltd.	Claim for damages and others	KRW	1,974	First trial in progress and others
Individual and others	PS&Marketing Corp.	Litigation for affirmation of non-existence of debt	KRW	133	First trial in progress
Individual and others	SK Networks Co., Ltd.	Claim for damages and others	KRW	7,027	First trial in progress and others
Chang Sung Ace Co.,Ltd and others	SK Networks Service Co., Ltd.	Claim for payment of goods and others	KRW	76	First trial in progress
Lotte Insurance Co., Ltd. and others	SK Magic Co., Ltd. and others	Claim for compensation and others	KRW	1,004	First trial in progress and others
Hanhwa Insurance and others	SK Rent-a-Car Co., Ltd.	Claim for compensation and others	KRW	475	First trial in progress
Taeyoung Tech Co., Ltd.	SK Telesys Co., Ltd.	Claim for payment of construction	KRW	2,253	First trial in progress
Home Plus Co., Ltd. and others	SKC Co., Ltd.	Claim for damages	KRW	380	First trial in progress
Individual and others	,	Claim for damages	KRW	2,893	Adjustment in progress
Individual and others	SK Nexilis Co., Ltd. (Formerly, KCF Technologies Co., Ltd.)	Claim for damages	KRW	2,900	First trial in progress
Korea Land & Housing corporation and others	Ko-one Energy Service Co., Ltd.	Claim for cancellation of allotted charges and others	KRW	379	First trial in progress
Busan Green Energy Co., Ltd. and others	Pusan City Gas Co., Ltd.	Claim for return of unfair benefit and others	KRW	702	Second trial in progress and others
Yulim Engineering Co., Ltd.	Chonnam City Gas Co., Ltd.	Claim for payment of construction	KRW	92	First trial in progress
Korea Land & Housing Corporation	Chungcheong energy Service Co., Ltd.	Claim for cancellation of allotted charges	KRW	1,460	First trial in progress
K-Water Resources Corporation	SK Engineering & Construction Co., Ltd.	Claim for damages and others	KRW	4,004	Third trial in progress and others
Incheon Metropolitan City	00, 10	Claim for damages and others	KRW	36,568	Third trial in progress and others
Samjung Construction Co., Ltd.		Claim for payment of construction	KRW	5,940	Second trial in progress
Hyundai Construction Co., Ltd.		Claim for share of defect cost	KRW	177	First trial in progress
Suwon Sky view residents' representative and others		Claim for damages and others	KRW		First trial in progress and others
Korea Rural Community Corporation		Claim for damages	KRW	8,036	First trial in progress
Korea Gas Corporation		Claim for damages and others	KRW	47.295	First trial in progress
Republic of Korea		Claim for damages and others	KRW		First trial in progress and others
Korea Rail Network Authority		Claim for damages	KRW	19,258	First trial in progress and others
Busan Transportation Corporation		Claim for damages and others	KRW	9,579	First trial in progress and others
Individual and others		Claim for apartment and others	KRW	45,356	First trial in progress and others

On April 29, 2019, LG Chem Ltd. and others (collectively referred to as "LGC") filed a lawsuit against SK Innovation Co., Ltd. and SK Battery America, Inc. (collectively referred to as "SKI"), the subsidiaries of the Group, regarding an infringement of its electric battery trade secrets and instituted a request to the U.S. International Trade Commission (ITC) for ban on the import of lithium ion battery and others. On November 5, 2019, LGC requested a default judgment to ITC over an incomplete fulfilment of evidence preservation obligation breached by SKI during the litigation process. On February 14, 2020, the ITC made a default judgment against SKI in a lawsuit without holding additional hearings for the infringement of trade secrets. SK Innovation Co., Ltd. and SK Battery America, Inc. have requested a review by the U.S. ITC on Default Judgment, and the committee has decided to review the entire Default Judgment on April 17, 2020 and is currently in progress. According to the ITC's announcement, the final decision is to be made in October 2020.

On September 26, 2019, LGC additionally filed a lawsuit against SKI through the ITC alleging patent breaches and requested a ban on import as a remedial action. The lawsuit is currently pending, and the final outcome is unestimable as of June 30, 2020.

In addition, the above two lawsuits against SKI regarding infringement of trade secrets and breach of patent contract are also filed to the Federal District Court of Delaware on April 29, 2019 and September 26, 2019, respectively. The court ordered a temporary stop to both lawsuits, and accordingly, the final outcome is unestimable as of June 30, 2020.

On May 4, 2020 The Attorney General Office in California, USA filed a civil lawsuit with the Califorina District Court in San Franciso against Vitol Inc. and its subsidiaries, SK Energy America Inc. and SK Trading International Co., Ltd. for market price manipulation of gasoline products and anti-competitive, unfair practices for the refinery explosions in 2015. This case is currently in progress, and the duration and the final outcome are unestimable as of now. On May 6, 2020, the end-consumers of gasoline have filed a number of related class action lawsuits in the federal court in California. The duration and final outcome of the class action lawsuits are also unestimable as of now.

In addition, SKC Co., Ltd., a subsidiary, guarantees 50% of claim amounts related to the patent litigation filed by Kaneka Corporation to PI Advanced Materials Co., Ltd. (formerly, SKC Kolon PI, Inc.) In accordance with the payment guarantee agreement and the decision of the court to dismiss the trial on appeal case as of June 30, 2020, provisions amounting to USD 6,750 thousand have been recognized, which is 50% of the claim for PI Advanced Materials Co., Ltd. (formerly, SKC Kolon PI, Inc.) amounting to USD 13,500 thousand. The amounts are included in other non-operating expenses. By the final results of litigation, the actual damages to be compensated by the Group could increase according to the payment guarantee ratio of the agreement. As of June 30, 2020, the timing of the first trial judgment and related damage amounts are not estimable.

(4) Commitments

- In accordance with the Commercial Code of the Republic of Korea, the Company, SK Innovation Co., Ltd., SK Energy Co., Ltd., SK Global Chemical Co., Ltd., SK Lubricants Co., Ltd., SK Incheon Petrochem Co., Ltd., SK Trading International Co., Ltd. and SK ie technology Co., Ltd. are collectively responsible for any obligations of the Company arising before the spin-off. The Company and SK Biopharmaceuticals Co., Ltd. are collectively responsible for any obligations of the Company that occurred before the spin-off on April 1, 2011.
- 2) The Company entered into a contract to lease the headquarter's building from National Agricultural Cooperative Federation, the trustee of Hana Daol Fund Management. Under the terms of the lease, the lease period is until March 27, 2021, and the Company has the preemptive right to purchase the building at the fair value when the lessor elects to dispose the property.
- 3) The Company holds IT outsourcing and IT system maintenance agreements to provide hardware and information systems maintenance and development service entered into between the Company and SK Group companies and others.
- 4) The Company entered into a contract with Gyeonggi province on May 31, 2011 to purchase land located in Pangyo Land Development District. The total agreement amount is ₩82,964 million (the Company's portion: ₩45,536 million (54.9%)), which will be used for the construction of urban infrastructure facilities ("designated purpose" of the land). The contract includes requirements to be complied with and restrictions in transfer of ownership of the land. Should there be non-compliance, the contract may be terminated or cancelled.

SK Holdings Co., Ltd. and its subsidiaries Notes to the interim condensed consolidated financial statements June 30, 2020 and 2019 (Unaudited)

5) The Group has total return swap contracts in regards to SK Shipping Co., Ltd.'s issuance of ordinary shares and sale of existing shares, and details are as follows:

	Subscription of new shares	Sale of existing shares				
Investor	Special Situation 1 st Fund	Corporate Turnaround 1 st Fund				
Number of shares	6,548,672	4,808,259				
Contract date	April 11, 2017	May 11, 2017				
Expiry date	April 10, 2022	May 10, 2022				
Settlement	The Company and the investor make a cash settlement of the amount that deducts the issue price from the net selling price. If the amount is positive the investor pays to the Company, and if the amount is negative, the Company pays to the investor. In case where the sale is not complete, the selling price of the shares is considered to be nil.					
Premium	The Company pays to the investor the amount equivalent to 3.14% of the total shares held by the investor annually. When the investor receives dividends on the shares held, the amount is paid to the Company.					
Call option	The Company has the right to purchas	Company has the right to purchase the shares held by the investor at the d price of the ordinary shares with certain level of additional charges.				

6) The Group entered into total return swap contracts with ordinary shareholders of SK Siltron Co., Ltd., one of the subsidiaries. Details are as follows:

	Total return swap
Investor	Warmachine Sixth Co., Ltd. and others
Number of shares	13,140,440
Contract date	August 25, 2017
Expiry date	August 24, 2022
Settlement	The Company and the investors are to settle the amount that deducts the issue price from the net selling price. If the amount is positive, the investor pays to the Company, and if the amount is negative, the Company pays to the investor. In case where the sale is not complete, the selling price of the shares is considered to be nil.
Premium	The Company is to pay 0.5% of the initial contract amount at the closing date of the transaction and pay to the investor the amount equivalent to 3.20% of the total shares held by the investors annually. When the investor receives dividends on the shares held, the amount is paid to the Company.
Call option	On a three-month basis from the closing date of sale ("the quarterly payment day"), the Company has the right to purchase the shares held by the investor at the initial contract price of the ordinary shares with a certain level of additional charges.

As of June 30, 2020, the value of the agreements amounting to #169,131 million is recognized in long-term borrowings (see Note 15).

6) The Company entered into total return swap contracts with ordinary shareholders of SK Siltron Co., Ltd., one of the subsidiaries. Details are as follows.

	Total return swap					
Investor	Warmachine Sixth Co., Ltd. and others					
Number of shares	13,140,440					
Contract date	August 25, 2017					
Expiry date	August 24, 2022					
Settlement	The Company and the investors are to settle the amount that deducts the issue price from the net selling price. If the amount is positive, the investor pays to the Company, and if the amount is negative, the Company pays to the investor. In case where the sale is not complete, the selling price of the shares is considered to be nil.					
Premium	The Company is to pay 0.5% of the initial contract amount at the closing date of the transaction and pay to the investor the amount equivalent to 3.20% of the total shares held by the investors annually. When the investor receives dividends on the shares held, the amount is paid to the Company.					
Call option	On a three-month basis from the closing date of sale ("the quarterly payment day"), the Company has the right to purchase the shares held by the investor at the initial contract price of the ordinary shares with a certain level of additional charges.					

As of June 30, 2020, the value of the agreements amounting to #169,131 million is recognized in long-term borrowings (see Note 15).

7) The Company entered total return swap contracts with ordinary shareholders of SK E&S Co., Ltd., one of the subsidiaries. Details are as follows.

	Total return swap					
Investor	MD Prime 1st Co., Ltd.					
Number of shares	4,640,199					
Contract date	November 14, 2017					
Expiry date	November 13, 2022					
Settlement	The Company and the investors are to settle the amount that deducts the issue price from the net selling price. If the amount is positive, the investor pays to the Company, and if the amount is negative, the Company pays to the investor. In case where the sale is not complete, the selling price of the shares is considered to be nil.					
Premium	The Company is to pay to the investor the amount equivalent to 3.07% of the total shares held by the investors annually. When the investor receives dividends on the shares held, the amount is paid to the Company.					
Call option	On a three-month basis from the closing date of sale ("the quarterly payment day"), the Company has the right to purchase the shares held by the investor at the initial contract price of the ordinary shares with a certain level of additional charges.					

As of June 30, 2020, the value of the agreements amounting to #677,775 million is recognized in long-term borrowings (see Note 15).

 The Company entered into a cash deficiency support agreement with Hudson Energy NY, LLC, a subsidiary of Plutus Capital NY, Inc., to lend funds for the shortfall of payment for loans and credit limit of USD 226,000 thousand.

- 9) The Company entered into a cash deficiency support agreement with Abrasax Investment Inc., a subsidiary of SK Pharmteco Inc. to lend funds for the shortfall of payment for loans and credit of up to USD 315,000 thousand.
- 10) As of June 30, 2020, Prism Energy International Pte., Ltd., a subsidiary, provides LOU (Letter of Understanding) to ship owners HHIENS1 Shipholding S.A., HHIENS2 Shipholding S.A. and HHIENS3 Shipholding S.A. in connection with LNG carriers. Accordingly, if SK Shipping Co., Ltd. fails to fulfill the contract (BBCHP) signed with the shipping company, SK E&S Co., Ltd. will assume all obligations related to the execution of the contract.
- 11) SK E&S LNG, LLC, one of the subsidiaries, is scheduled to be provided with liquefaction service for 20 years from FLNG Liquefaction 3, LLC, which plans to operate natural gas liquefaction plants in Texas starting from 2019. As of June 30, 2020, SK E&S Co., Ltd., one of the subsidiaries, is responsible for performance guarantee in case of SK E&S LNG, LLC's inability to make payments for service or for claims against breach of obligation. In regard to this, the Company provides performance guarantee for SK E&S Co., Ltd.'s guarantee.
- 12) As of June 30, 2020, details of contracts of the subsidiaries of SK E&S Co., Ltd. are as follows:

Description of contract	Contracting parties	Counterparty	Term of contract
Contract for the supply of long-term natural gas (*1)	Kangwon City Gas Co., Ltd. and 7 subsidiaries	Korea Gas Corporation Co., Ltd.	-
Contract of supply for natural gas	SK E&S Co., Ltd.	Tangguh PSC Contractor Parties	2006.1 ~ 2026.7
Contract for the repair and maintenance of gas turbine	SK E&S Co., Ltd.	GE International Inc.	2004.6 ~ 2026.12 (estimated)
Contract for the storage and vaporization service of natural gas	SK E&S Co., Ltd.	POSCO ENERGY Co., Ltd.	2005.6 ~ 2025.12
Rental contract of the plant and tower site		POSCO Co., Ltd.	2003.8 ~ 2028.12
Contract for the long term maintenance program	Paju Energy Service Co., Ltd.	Siemens AG and others	2014.6 ~ 2031.6 (estimated)
Contract for the long term maintenance program	Narae Energy Service Co., Ltd.	Siemens AG and others	2015.1 ~ 2032.1 (estimated)
Contract for the long term maintenance program	Narae Energy Service Co., Ltd.	Doosan Heavy Industries & Construction Co., Ltd.	12 years from 2012
Contract for the liquefaction and storage of natural gas	SK E&S LNG, LLC	FLNG Liquefaction 3, LLC	20 years from 2019
Contract for the use plumbing system	Narae Energy Service Co., Ltd. and Paju Energy Service Co., Ltd.	Korea Gas Corporation Co., Ltd.	20 years from 2017
Contract for the use pipeline of natural gas	SK E&S LNG, LLC	Kinder Morgan, Inc.	20 years from 2019
Contract for the storage and vaporization service of natural gas	SK E&S Co., Ltd., Narae Energy Service Co., Ltd. and Paju Energy Service Co., Ltd.	Boryeong LNG Terminal Co., Ltd.	20 years from 2017
Contract of supply for natural gas	Prism Energy International Pte. Ltd.	Chevron Australia Pty. Ltd. and others	2017.1 ~ 2022.3
Contract of supply for natural gas	Prism Energy International Pte. Ltd.	PETRONAS LNG LTD.	2019.6 ~ 2023.12
lime charter contract	Prism Energy International Pte. Ltd.	SK Shipping Co., Ltd.	20 years from ship delivery date
Contract for operation and maintenance	Narae Energy Service Co., Ltd.	Jeonbuk Co-generation, Gimcheon Energy Service Co., Ltd.	2015.1 ~ 2025.1
Contract of supply for long-term natural gas	Narae Energy Service Co., Ltd.	Korea Gas Corporation Co., Ltd.	20 years from 2015.5
_ease contract	Pusan City Gas Co., Ltd.	Megamart and others	Until 2022
Contract for sales of REC	SK E&S Co., Ltd.	Godeok Green Energy Co., Ltd. and others	20 years from contract date
Contract for sales of REC	Paju Energy Service Co., Ltd.	GeoGeum Solar Park Co., Ltd. and others	15 years from 2018
Contract for LTSA	Paju Energy Service Co., Ltd.	Doosan Fuel Cell Co., Ltd.	10 years from performance assurance
Contract for LTSA	Yeoju Energy Service Co., Ltd.	Siemens AG, Siemens Ltd. Seoul	2019.12 ~ 2047.12 (estimated)
Contract for construction of Yeoju power plant, facilities	Yeoju Energy Service Co., Ltd.	Korea Electric Power Corporation	2019.12 ~ 2021.5
Contract for steam supply	Chungcheong Energy Service Co., Ltd.	Clenko Co., Ltd. and others	20 years from commercia operating date
Contract for FPSO	SK E&S Australia Pty. Ltd.	MODEC, Inc.	2019.11 ~ FPSO Completion

(*1) The Company has signed a contract with Korea Gas Corporation for natural gas supply for 20 years.

13) As of June 30, 2020, details of construction contracts about the subsidiaries of SK E&S Co., Ltd. are as follows (Korean won in millions):

Description of contract	Name of subsidiaries Contract opponent		Term of contract	Α	mount
Contract for heat piping	Narae Energy Service Co., Ltd. Eulmyo general construction		2018.09 ~ 2021.04	₩	10,257
and others	Co., Ltd. and others				

14) As of June 30, 2020, details of material contracts of resource development by the subsidiaries of SK E&S Co., Ltd. are as follows (Foreign currencies in thousands):

Description of contract	Name of subsidiaries	Counterparty	Equity ownership
Barossa-Caldita, Australia gas field	SK E&S Australia Pty. Ltd.	Santos NA Barossa Pty. Ltd. (*1)	37.5%
	Dew Blaine Energy, LLC	Continental Resources, Inc.	49.9%

- (*1) As Santos NA Barossa Pty. Ltd. purchased the entire shares in Barossa-Caldita Australia gas field of ConocoPhilips Company on May 28, 2020, the name of the counterparty changed from ConocoPhillips Company to Santos NA Barossa Pty. Ltd.
- 15) SK Incheon Perochemical Co., Ltd., one of subsidiaries, securitized ₩138,000 million of SK Incheon Petrochemical Co., Ltd.'s trusts accounts receivable for SK Energy Co., Ltd. and SK Global Chemical Co., Ltd., the other subsidiaries of the Group, to Industrial Bank of Korea. IPC Limited Company 1, which underwrites the first right to benefit issued by Industrial Bank of Korea, issues securitized commercial paper.
- 16) SK Energy Co., Ltd. and SK Incheon Petrochemical Co., Ltd., subsidiaries of the Group, pay electricity and customs through credit cards and B2B corporate purchase agreements made with some financial institutions. They make payments to the credit card company at the end of the payment date based on the agreement. As of June 30, 2020, the payables amount ₩710,874 million related to those.
- 17) SK Telecom Co., Ltd., a subsidiary of the Group, sells its mobile handsets to customers on an installment payment plan through agents. SK Telecom Co., Ltd. entered into transfer agreements with the agents for the receivables of handset's installment payments, under which all the rights and obligations of the receivables are transferred to SK Telecom Co., Ltd. Then, SK Telecom Co., Ltd. entered into an asset securitization contract with a special purpose company for the receivables, and accordingly, the balance of the receivables as of the end of the current reporting period is \#464,225 million which is recorded as other receivables and long-term other receivables.
- 18) As of June 30, 2020, SK Materials Co., Ltd., a subsidiary, has a shareholders' agreement with Showa Denko K.K in respect to an investment in SK Showa Denko Co., Ltd., a subsidiary. Under this agreement, Showa Denko K.K holds a right to sell 630,000 shares (15%) of interests in SK Showa Denko Co., Ltd. at a par value of ₩5,000 to SK Materials Co., Ltd.
- 19) SK Air Gas Co., Ltd., a subsidiary, transferred trade receivables from SK Energy Co., Ltd. and SKC Co., Ltd. to trust account of Korea Development Bank in September 2018. In the same year, SK Materials Co., Ltd. entered into trade receivables securitization contract with Korea Development Bank in which ABCP is issued at par value of \#25,000 million on a three-month basis based on type 1 beneficiary certificate. As of June 30, 2020 and December 31 2019, trade receivables transferred to trust account are \#2,698 million and \#3,938 million, respectively.

20) SK Air Gas Co., Ltd., a subsidiary, trusted the trade receivable that may incur from project, of which the investment was in progress in September 2017, to the trust account of Hana Bank. With this trusted amount as collateral, SK Materials Co., Ltd. entered into borrowing commitment for the facility for up to ₩120,000 million. As of June 30, 2020 and December 31, 2019, trade receivables that transferred to trust account are ₩9,655 million and ₩5,800 million, respectively.

(5) Hybrid bonds

Details of hybrid bonds as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

			Maturity date	Interest	Ju	une 30,	Dee	cember 31,
Issue segment	Description	Issue date	(*1)	rate (%) (*2)		2020		2019
Group of SK Innovation	1st private equity bond type	2019.03.15	2049.03.15	4.20	₩	600,000	₩	600,000
Group of SK Telecom	2-1 private equity bond type	2018.06.07	2078.06.07	3.70		300,000		300,000
	2-2 private equity bond type	2018.06.07	2078.06.07	3.65		100,000		100,000
Group of SK E&S	1-1 Korean currency type	2015.07.15	2045.07.15	3.90		270,000		270,000
	1-2 Korean currency type	2015.07.15	2045.07.15	3.85		130,000		130,000
	2nd Korean currency type	2019.10.11	2049.10.11	3.30		330,000		330,000

(*1) The issuing company may decide on early repayment and extension of maturity date when certain period is lapsed.

(*2) After a certain period has elapsed from the issue date, the interest rate will fluctuate in accordance with the contract.

(6) Others

As of June 30, 2020, 61 notes (including 58 blank notes) and 52 blank checks are provided to financial institutions as collateral for borrowings.

32. Pledged assets

The following assets were pledged as collateral for the Group's borrowings and others as of June 30, 2020 (Korean won in millions and foreign currencies in thousands):

Company Asset Currency amount (11) Proventy last and equipment KRW Description Collateral for project SK Incheon Perochemical Out, Lto Property, plant and equipment KRW 4.000 Kreva Everopment Bank Collateral for borrowing SK Boadband Co, Ltd. Property, plant and equipment KRW 4.800 Name Co., Ltd. and others Collateral for borrowing SK Networks Co, Ltd. Property, plant and equipment KRW 4.800 Name Co., Ltd. and others Collateral for borrowing SK Networks Co, Ltd. Property, plant and equipment KRW 48.101 Krew Development Bank Collateral for borrowing SK Biand Co, Ltd. Property, plant and equipment KRW 48.111 Krew Development Bank Collateral for borrowing SK Biand Co, Ltd. Property, plant and equipment KRW 48.011 Krew Development Bank Collateral for borrowing SK Sellinic Co, Ltd. Property, plant and equipment KRW 48.000 Krewa Development Bank Collateral for borrowing SK Collinic Co, Ltd. Property, plant and equipment KRW 6.0000 Krewa Developm				Collateralized		
SK Innovation Co., Ltd. Investments in associates KRW Yenner LNC Company and others Collateral for project financial Collateral for borrowing SK Inchoon Perochemical Divisitio, C., Ltd. Property, plant and equipment KRW 30.00 Korea Development Bank Collateral for borrowing SK Broadband Co., Ltd. Property, plant and equipment KRW 3.968 Lessor Collateral for borrowing SK Materials, Co., Ltd. Property, plant and equipment KRW 18.902 Newr Co., Ltd. and others Collateral for borrowing SK Materials, Co., Ltd. Property, plant and equipment KRW 123.500 Karea Development Bank Collateral for borrowing SK Rank-Acr Co., Ltd. Property, plant and equipment KRW 123.500 Karea Development Bank Collateral for borrowing SK Bioland Co., Ltd. Property, plant and equipment KRW 19.500 and others Collateral for borrowing SK Solmis, Co., Ltd. Property, plant and equipment KRW 19.500 collateral for borrowing SK Newlice, C., Ltd. Property, plant and equipment KRW 19.500 collateral for borrowing SK Co Solmis, Co., Ltd. Property, plant and equipment KRW 19.500 collateral for borrowing SK Ko Solmis, Co., Ltd. Property, plant and equipment <t< td=""><td>Company</td><td>Asset</td><td>Currency</td><td>amount (*1)</td><td>Provided to</td><td>Description</td></t<>	Company	Asset	Currency	amount (*1)	Provided to	Description
SK Incheon Perochemical Oc., Ltd. Property, plant and equipment KRW 30.000 Korea Development Bank Collateral for borrowing Octaveral development Bank SK Broadband Co., Ltd. Property, plant and equipment SK Broadband Co., Ltd. Property, plant and equipment and others KRW 4.500 Shinhan Bank Collateral for borrowing Office lease SK Networks Co., Ltd. Property, plant and equipment and others KRW 18.902 Naver Co., Ltd. and others Property, plant and equipment and others SK Networks Co., Ltd. Property, plant and equipment and others KRW 12.500 Korea Development Bank and others Collateral for borrowing and others SK Reinda-Ca Co., Ltd. Property, plant and equipment KRW 48.9171 Korea Development Bank collateral for borrowing and others Collateral for borrowing and others SK Bioland Co., Ltd. Property, plant and equipment KRW 49.500 KOB Collateral for borrowing and others Collateral for borrowing and others SK Collation Co., Ltd. Property, plant and equipment KRW 19.500 KOB Collateral corporation and others Collateral for borrowing and others SK CFT Co., Ltd. Property, plant and equipment and others KRW 386.000 Koresa Development Bank and others Collate	SK Innovation Co., Ltd.	Investments in associates				
Netruck Co., Ltd.Property, plant and equipmentKRW4.500Shirham BankCollateral for borrowing office leaseIncross Co., Ltd.Financial instructionKRW19.962Naver Co., Ltd. and othersPerformance guarantees for contract.SK Networks Co., Ltd.Property, plant and equipmentKRW491,100Korea Development BankCollateral for sales and othersSK Nature Co., Ltd.Property, plant and equipmentKRW433,171Korea Development BankCollateral for borrowing and othersSK Rent-a-Car Co., Ltd.Property, plant and equipmentKRW483,171Korea Development BankCollateral for borrowing and othersSK Bidand Co., Ltd.Property, plant and equipmentKRW40,500Korea Development BankCollateral for borrowing and othersSK Sidand Co., Ltd.Property, plant and equipmentKRW40,500Korea Development BankCollateral for borrowing and othersSK Colmics Co., Ltd.Property, plant and equipmentKRW64,80Kocean Development BankCollateral for borrowing and othersSK Ocional Co., Ltd.Property, plant and equipmentKRW64,800Kocean Development BankCollateral for borrowing and othersSK Nexile Co., Ltd.Property, plant and equipmentKRW64,800Kocean Development BankCollateral for borrowing and othersSK Nexile Co., Ltd.Property, plant and equipmentKRW12,000Solanded Charled BankCollateral for borrowing and othersSK Nexile Co., Ltd.Property, plant and		Property, plant and equipment	KRW	30,000		
SK Broadband Co., Ltd. Property, plant and equipment KRW 3,968 Lessor Restricted real rights for fifte lease SK Networks Co., Ltd. Financial instruction KRW 19,002 Naver Co., Ltd. and others Performance guarantees property, plant and equipment KRW 491,100 Korea Development Bank collateral for borrowing and others Collateral for borrowing and others SK Bioland Co., Ltd. Property, plant and equipment KRW 449,170 Korea Development Bank and others Collateral for borrowing and others SK Bioland Co., Ltd. Property, plant and equipment KRW 443,571 Korea Development Bank Collateral for borrowing and others Collateral for borrowing and others SK Colmics Co., Ltd. Property, plant and equipment KRW 4,680,700 Korea Development Bank Collateral for borrowing and others Collateral for borrowing and others SK Rott-Sciege Co., Ltd. Property, plant and equipment KRW 6,480 Kooknin Bank and others Collateral for borrowing and others SK Nexils Co., Ltd. Property, plant and equipment KRW 120,000 Korea Development Bank Collateral for borrowing and others Collateral for borrowing and others Collateral for borrowing and others SK Nexils Co., Ltd. Property, plant and eq		Property, plant and equipment	KRW	4,500	Shinhan Bank	Collateral for borrowing
Increase Co., Ltd.Financial instructionKRW18,902Naver Co., Ltd. and othersPerformance guarantees for contractSK Networks Co., Ltd.Property, plant and equipmentKRW491,100Korea Development BankCollateral for sales and othersSK Magic Co., Ltd.Property, plant and equipmentKRW483,111Korea Development BankCollateral for borrowing and othersSK Renta-Car Co., Ltd.Property, plant and equipmentKRW483,111Korea Development BankCollateral for borrowing and othersSK C Solmics Co., Ltd.Property, plant and equipmentKRW40,500KDBCollateral for borrowing and othersSKC Solmics Co., Ltd.Property, plant and equipmentKRW6,480Kookmin Bank and othersCollateral for borrowing and othersSKC Solmics Co., Ltd.Property, plant and equipmentKRW6,480Kookmin Bank and othersCollateral for borrowing and othersSK Nexils Co., Ltd.Property, plant and equipmentKRW12,000Stanted Charled SankCollateral for borrowing and othersSK Nexils Co., Ltd.Property, plant and equipmentKRW12,000Stanted Charled SankCollateral for borrowing and othersSK Co., Ltd.Property, plant and equipmentKRW13,500Korea Development BankCollateral for borrowing and othersSK Nexils Co., Ltd.Property, plant and equipmentKRW13,500Korea Development BankCollateral for borrowing and othersSK Castor, Ltd.Property, plant and equipmentKR			KRW	3,968	Lessor	Restricted real rights for
SK Networks Co., Ltd. Property, plant and equipment and others KRW 491,100 Korea Development Bank and others Collateral for sales and others SK Magic Co., Ltd. Property, plant and equipment KRW 123,500 Korea Development Bank and others Collateral for borrowing and others SK Biolan Co., Ltd. Property, plant and equipment KRW 483,171 Korea Development Bank and others Collateral for borrowing and others SK Biolan Co., Ltd. Property, plant and equipment KRW 19,000 Korea Development Bank and others Collateral for borrowing and others SKC Solmics Co., Ltd. Property, plant and equipment KRW 64,000 Korea Development Bank and others Collateral for borrowing and others SKC FTH Co., Ltd. Property, plant and equipment KRW 69,000 Korea Development Bank and others Collateral for borrowing and others SK Nexilis Co., Ltd. Property, plant and equipment KRW 89,000 Korea Development Bank and others Collateral for borrowing and others SK Nexilis Co., Ltd. Property, plant and equipment and others KRW 120,000 Standed Charted Bank and others Collateral for borrowing and others SK Co. Property, plant and equipment and others	Incross Co., Ltd.	Financial instruction	KRW	18,902	Naver Co., Ltd. and others	Performance guarantees
SK Magic Co., Ltd. Property, plant and equipment KRW 123,500 Norea Development Bank and others Collateral for borrowing and others SK Rent-a-Car Co., Ltd. Property, plant and equipment KRW 483,171 Korea Development Bank collateral for borrowing and others Collateral for borrowing and others SK Elsioland Co., Ltd. Property, plant and equipment KRW 49,000 Korea Development Bank collateral for borrowing and others Collateral for borrowing and others SKC Solmics Co., Ltd. Property, plant and equipment KRW 7,000 Korea Development Bank collateral for borrowing and others Collateral for borrowing and others SKC Solmics Co., Ltd. Property, plant and equipment KRW 6,800 Korea Development Bank collateral for borrowing and others Collateral for borrowing and others SK Nexils Co., Ltd. Property, plant and equipment KRW 396,000 Korea Development Bank Collateral for borrowing and others SK Nexils Co., Ltd. Property, plant and equipment KRW 396,000 Korea Development Bank Collateral for borrowing and others SK Rokis Co., Ltd. Property, plant and equipment KRW 120,000 Starded Chared Bank Collateral for borrowing and others SK Las Co., Ltd. <td>SK Networks Co., Ltd.</td> <td></td> <td>KRW</td> <td>491,100</td> <td></td> <td>Collateral for sales</td>	SK Networks Co., Ltd.		KRW	491,100		Collateral for sales
SK Rent-a-Car Co., Ltd. Property, plant and equipment KRW 483.171 Korea Development Bank, and others Collateral for borrowing and others SK Bioland Co., Ltd. Property, plant and equipment KRW 19.500 KDB Capital Corporation Collateral for borrowing and others SKC Solmics Co., Ltd. Property, plant and equipment KRW 72.100 Korea Development Bank Collateral for borrowing and others SKC Solmics Co., Ltd. Property, plant and equipment KRW 6400 Korea Development Bank Collateral for borrowing and others SK Koxiis Co., Ltd. Property, plant and equipment KRW 6300.00 Korea Development Bank Collateral for borrowing and others SK (Per Cehnologies Co., Ltd. Property, plant and equipment KRW 120.000 Standed Charled Bank Collateral for borrowing and others SK (Di Colobal Co., Ltd. Property, plant and equipment USD 70.000 Standed Charled Bank Collateral for borrowing and others SK (As Co., Itd. Property, plant and equipment USD Standed Charled Bank Collateral for borrowing and others SK (As Co., Itd. Property plant and equipment USD Stande Charled Bank Collateral for borrowing and others <	SK Magic Co., Ltd.		KRW	123,500	Korea Development Bank	
SK Bioland Co., Ltd. Property, plant and equipment KRW 40,500 Korea Development Bank Collateral for borrowing and others SKC Solmics Co., Ltd. Property, plant and equipment KRW 19,500 KDE Capital Corporation Collateral for borrowing and others SKC Solmics Co., Ltd. Property, plant and equipment KRW 64,80 Kookmin Bank and others Collateral for borrowing and others SK Navilis Co., Ltd. Property, plant and equipment KRW 64,90 Kormin Bank and others Collateral for borrowing and others SK Navilis Co., Ltd. Property, plant and equipment and others KRW 120,000 Kore Echologies Co., Ltd. Property, plant and equipment and others KRW 120,000 Standed Charled Bank collateral for borrowing and others Collateral for borrowing and others SK C, Inc. Property, plant and equipment in associates KRW 120,000 Standed Charled Bank collateral for borrowing and others Collateral for borrowing and others SK Cas Co., Ltd. Property, plant and equipment two threes KRW 117,10 Korea Development Bank Collateral for borrowing and others SK Cas Co., Ltd. Property, plant and equipment two threes KRW 11,71 Korea Development Bank Collat	SK Rent-a-Car Co., Ltd.	Property, plant and equipment	KRW	483,171	Korea Development Bank	Collateral for borrowing
SKC Solinics Co., Ltd. Property, plant and equipment SKCPTH Co., Ltd. KRW 72,100 Korea Development Bank and others Collateral for borrowing Collateral for borrowing Collateral for borrowing and others SK Nexilis Co., Ltd. Property, plant and equipment KCF Technologies Co., Ltd. Property, plant and equipment and others KRW 396,000 Korea Development Bank and others Collateral for borrowing Collateral for borrowing and others SK PICSIDeal Co., Ltd. Property, plant and equipment and others KRW 396,000 Korea Development Bank and others Collateral for borrowing collateral for borrowing and others SK PICSIDeal Co., Ltd. Property, plant and equipment investments in joint ventures investments in joint ventures (KRW USD 70,000 Standed Charted Bank and others Collateral for borrowing collateral for PF Kangwon City Gas Co., Ltd. Property, plant and equipment investment property, plant and equipment (KRW KRW 13,100 KRW Collateral for borrowing and others Pausa City Gas Co., Ltd. Property, plant and equipment investment property, plant and equipment (former), Wire Energy Service Co., Ltd. Property, plant and equipment (KRW KRW 39,100 Kookmin Bank and others Collateral for borrowing Collateral for borrowing SK Engineering & Construction KRW 39,11 Hana Bank and others <t< td=""><td>SK Bioland Co., Ltd.</td><td>Property, plant and equipment</td><td>KRW</td><td>40,500</td><td></td><td>Collateral for borrowing</td></t<>	SK Bioland Co., Ltd.	Property, plant and equipment	KRW	40,500		Collateral for borrowing
Woort Fine Chem Co., Ltd.Property, plant and equipment Investment securities and othersKRW6480 690,000Korea Development Bank and othersCollateral for borrowing Collateral for borrowing and othersSK Nexilis Co., Ltd.Property, plant and equipment and othersKRW396,000Standed Charted Bank and othersCollateral for borrowing collateral for borrowing and othersSK PiCGlobal Co., Ltd.Property, plant and equipment and othersKRW120,000Standed Charted Bank and othersCollateral for borrowing collateral for borrowing collateral for borrowingSK C, Inc.Property, plant and equipment investments in pion ventures investment property plant and equipmentKRW19100Standed Charted Bank and othersCollateral for borrowing collateral for borrowing collateral for borrowingPause City Gas Co., Ltd.Property, plant and equipment investment property plant and equipment (formerly, Wire Energy Service Co., Ltd.Property, plant and equipment Property, plant and equipment Property, plant and equipment financial instructionKRW3,541Hana BankCollateral for borrowing collateral for borrowing collateral for borrowing collateral for borrowing collateral for borrowingSK Engineering & Construction Co., Ltd.Property, plant and equipment financial instructionKRW3,541Hana BankCollateral for borrowing collateral for borrowing 	SK Telesys Co., Ltd.	Property, plant and equipment	KRW	19,500		Collateral for borrowing
SKCFTH Co., Ltd. Investment securities and others KRW 690,000 Korea Development Bank and others Collateral for borrowing and others SK Nexilis Co., Ltd. Property, plant and equipment and others KRW 396,000 Korea Development Bank and others Collateral for borrowing and others SK PICGboal Co., Ltd. Property, plant and equipment and others KRW 120,000 Standed Charted Bank and others Collateral for borrowing collateral for PF SK, Inc. Property, plant and equipment Investments in joint ventures KRW 135,000 Woori Bank and others Collateral for borrowing Kargwon City Gas Co., Ltd. Property, plant and equipment Investment property KRW 135,000 Woori Bank and others Collateral for borrowing Paisa City Gas Co., Ltd. Property, plant and equipment KRW 360,000 Kookmin Bank and others Collateral for borrowing Chonnam City Gas Co., Ltd. Property, plant and equipment KRW 360,000 Kookmin Bank and others Collateral for borrowing Co., Ltd. Property, plant and equipment KRW 391,781 Korea Housing Guarantee Co., Ltd. Collateral for borrowing Narae Energy Service	SKC Solmics Co., Ltd.	Property, plant and equipment	KRW	72,100		Collateral for borrowing
SK Nexilis Co., Ltd. (Formerly, KCF Technologies Co., Ltd.) Property, plant and equipment and others KRW 396,000 Korea Development Bank and others Collateral for borrowing and others SK PiCGlobal Co., Ltd. Property, plant and equipment and others KRW 120,000 Standed Charted Bank and others Collateral for borrowing and others SK Ca, Inc. Property, plant and equipment Investments in associates USD 70,000 Standed Charted Bank and others Collateral for Dorrowing and others Kagwon City Gas Co., Ltd. Property, plant and equipment Investment property KRW 13,500 Korea Development Bank and others Collateral for Dorrowing Contateral for Dorrowing Paju Energy Service Co., Ltd. Property, plant and equipment (formerly, Wire Energy Service Co., Ltd.) Property, plant and equipment (formerly, Wire Energy Service Co., Ltd.) Froperty, plant and equipment (formerly, Wire Energy Service Co., Ltd.) Froperty, plant and equipment (formerly, Wire Energy Service Co., Ltd.) KRW 3,541 Hana Bank Collateral for borrowing Collateral for borrowing Collateral for borrowing Collateral for borrowing Co., Ltd. Collateral for borrowing Collateral for borrowing C						
KCF Technologies Co., Ltd. Property, plant and equipment and equipment and others KRW 120,000 Standed Charted Bank and others Collateral for borrowing and others SK C, Inc. Property, plant and equipment Investments in associates KRW 9,167 Shinha Bank and others Collateral for borrowing Collateral for PF Kangwon City Gas Co., Ltd. Property, plant and equipment KRW 135,000 Woori Bank and others Collateral for PF Paju Energy Service Co., Ltd. Property, plant and equipment KRW 3,990 Megamart and others Collateral for borrowing Narae Energy Service Co., Ltd. Property, plant and equipment KRW 369,000 Kookmin Bank and others Collateral for borrowing Co., Ltd. Property, plant and equipment KRW 399,000 Kookmin Bank and others Collateral for borrowing Contame Co., Ltd. Property, plant and equipment KRW 399,000 Kookmin Bank and others Collateral for borrowing Co., Ltd. Property, plant and equipment KRW 3541 Hana Bank Collateral for borrowing SK Engineering & Construction Financial instruction KRW 391,781 Korea Housing Guarantee Collateral for borrowing					and others	-
and others and others and others SKC, Inc. Property, plant and equipment Investments in associates KRW 9,167 Shinhan Bank and others Collateral for borrowing Kangwon City Gas Co., Ltd. Property, plant and equipment KRW 135,000 Woofi Bank and others Collateral for PF Paus City Gas Co., Ltd. Property, plant and equipment KRW 11,710 Korea Development Bank Collateral for borrowing Paju Energy Service Co., Ltd. Property, plant and equipment KRW 360,000 Kookmin Bank and others Collateral for borrowing Narae Energy Service Co., Ltd. Property, plant and equipment KRW 889,000 Kookmin Bank and others Collateral for borrowing (formerly, Wirye Energy Service Financial instruction KRW 3541 Hana Bank Collateral for borrowing SK Engineering & Construction Investment property KRW 391,781 Korea Housing Guarantee Collateral for borrowing China Company, Ltd. Others USD 33,332 Shinhan Bank and others Collateral for borrowing SK Industrial Development Others CNY 2,000,000 Bank of China communications Collatera	KCF Technologies Co., Ltd.)	Property, plant and equipment		396,000	and others	Collateral for borrowing
SK E&S Co., Ltd.Investments in associates investments in joint venturesKRW9,167Shinhan Bank and others Woori Bank and othersCollateral for PF Collateral for PFKangwon City Gas Co., Ltd.Property, plant and equipmentKRW135,000Woori Bank and othersCollateral for borrowing Leasehold depositsPaju Energy Service Co., Ltd.Property, plant and equipmentKRW360,000Kookmin Bank and othersCollateral for borrowing Collateral for borrowingNarae Energy Service Co., Ltd.Property, plant and equipmentKRW369,000Kookmin Bank and othersCollateral for borrowing(formerly, Wirye Energy Service Co., Ltd.Property, plant and equipmentKRW3541Hana BankCollateral for borrowing(formerly, Wirye Energy Service Co., Ltd.Property, plant and equipmentKRW3,541Hana BankCollateral for borrowingSK Engineering & Construction Co., Ltd.Investment securities and othersKRW31,781Korea Housing Guarantee Co., Ltd. and othersCollateral for borrowingSK China Company, Ltd.OthersUSD3,332Shinhan Bank and othersCollateral for borrowingSK Materials Co., Ltd.Property, plant and equipmentKRW13,585LG Display Co., Ltd.Collateral for borrowingSK Materials Co., Ltd.Property, plant and equipmentKRW13,585LG Display Co., Ltd.Collateral for borrowingSK Materials So., Ltd.Property, plant and equipmentKRW13,585LG Display Co., Ltd.Collateral for borrowing<	SK PICGlobal Co., Ltd.		KRW	120,000		Collateral for borrowing
Kangwon City Gas Co., Ltd. Pusan City Gas Co., Ltd.Investments in joint venturesKRW115,000Woori Bank and othersCollateral for PFPusan City Gas Co., Ltd. Paje Energy Service Co., Ltd.Property, plant and equipmentKRW3,990Megamart and othersCollateral for borrowingPaje Energy Service Co., Ltd. Connam City Gas Co., Ltd.Property, plant and equipmentKRW360,000Kookmin Bank and othersCollateral for borrowingNarae Energy Service Co., Ltd.Property, plant and equipmentKRW369,000Kookmin Bank and othersCollateral for borrowing(formerly, Wirye Energy Service Co., Ltd.Property, plant and equipmentKRW3,541Hana BankCollateral for borrowingSK Engineering & Construction Co., Ltd.Investment securities and othersKRW3,541Hana BankCollateral for borrowing and othersSK China Company, Ltd.Investment propertyKRW142,000Kookmin Bank and othersCollateral for borrowing of paymentSK Materials Co., Ltd.Property, plant and equipmentKRW13,585Korea Development BankCollateral for borrowing co., Ltd.SK Materials Co., Ltd.Property, plant and equipmentKRW13,585LG Display Co., Ltd.Collateral for borrowing of paymentSK Materials Co., Ltd.Property, plant and equipmentKRW13,585LG Display Co., Ltd.Collateral for borrowing collateral for borrowing Collateral for borrowingSK Materials Japan Co., Ltd.Property, plant and equipmentKRW13,580Korea D						
Kangwon City Gas Co., Ltd. Pusan City Gas Co., Ltd.Property, plant and equipment Investment property plant and equipmentKRW KRW11,710 3,990Korea Development Bank Megamat and others Collateral for borrowing Collateral for b	SK E&S Co., Ltd.					
Pusan City Gas Co., Ltd. Investment property KRW 3,990 Megamart and others Leasehold deposits Chonnam City Gas Co., Ltd. Property, plant and equipment KRW 360,000 Kookmin Bank and others Collateral for borrowing Narae Energy Service Co., Ltd. Property, plant and equipment KRW 880,000 Kookmin Bank and others Collateral for borrowing Co., Ltd. Property, plant and equipment KRW 589,000 Kookmin Bank and others Collateral for borrowing Co., Ltd. Property, plant and equipment KRW 3,541 Hana Bank Collateral for borrowing SK Engineering & Construction Investment securities and others KRW 391,781 Korea Housing Guarantee Collateral for borrowing China Conpany, Ltd. Investment property KRW 142,000 Korea Housing Guarantee Collateral for borrowing SK China Company, Ltd. Others USD 33,392 Shinhan Bank and others Collateral for borrowing SK Materials Co., Ltd. Property, plant and equipment KRW 13,585 LG Display Co., Ltd. Collateral for borrowing SK Materials Japan Co., Ltd. Property, plant and equipment						
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	SK Siltron Co., Ltd.		KRW	303,642		Collateral for borrowing

(*1) The carrying amount of investment securities provided as collaterals for PF loans and facility borrowings are included.

Life & Security Holdings Co., Ltd., a subsidiary, provides its shares in ADT Caps Co., Ltd., Capstec Co., Ltd. and ADT Security Co., Ltd. as collateral for its long-term borrowing of #1,900,000 million.

33. Guarantees provided among the Group entities

Guarantees provided among the Group entities as of June 30, 2020 are as follows (Korean won in millions and foreign currencies in thousands):

Guarantor	Guarantee	Currency	Amount	Description of guarantee
SK Holdings Co., Ltd.	Abrasax Investment Inc.	USD	315,000	Guarantee of debt
-	Hudson Energy NY, LLC	USD	226,000	Guarantee of debt
SK Innovation Co., Ltd.	SK E&P America, Inc.	USD	70,000	Guarantee of debt
	SK Battery America, Inc.	USD	670,000	Guarantee of debt
	SK Battery Hungary Kft.	USD	310,000	Guarantee of debt
		HUF	9,810,000	Guarantee of local factory construction
		EUR	20,000	Guarantee of debt
	SK Hi-tech Battery Materials	USD	50,000	
	(Jiangsu) Co., Ltd.	CNY	500,000	Guarantee of debt
	SK Hi-Tech Battery Materials Poland Sp. Zo.o.	USD	130,000	Guarantee of debt
	SK Battery Manufacturing Kft.	USD	200,000	Guarantee of debt
	, 3	EUR	310,000	
SK Global Chemical Co., Ltd.	SK Ningbo Performance Rubber Co., Ltd.	USD	14,000	Guarantee of payment for license agreement
,	SK Global Chemical Americas, Inc.	USD	190,000	
	SK Functional Polymer, S.A.S	EUR	216,000	
SK Telink Co., Ltd.	ADT Caps Co., Ltd.	KRW	1	
SK Networks Co., Ltd.	SK Networks Deutschland GmbH	EUR	16.000	
	SK Networks Hong Kong Ltd.	USD		Standing surety for investee
	SK Networks (Shanghai) Co., Ltd.	USD	72,900	
	((CNY	54,000	
	SK Networks Japan Co., Ltd.	JPY	500,000	
	SK Networks America, Inc.	USD	20.000	Standing surety for investee
	SK (Guangzhou) Metal Co., Ltd.	CNY	50,000	Standing surety for investee
	SK Networks (Xiamen) Steel Processing Center		68,000	Standing surety for investee
	Co., Ltd.			
	PT. SK Networks Indonesia	USD	1,500	
	SK Networks Resources Australia Pty. Ltd.	AUD	35,000	Standing surety for investee
SKN (China) Holdings Co., Ltd.	Shenyang SK Bus Terminal Co., Ltd.	CNY		Guarantee of deposit
SKC Co., Ltd.	SKC, Inc.	USD	133,000	
	SKC (Jiangsu) High Tech Plastics Co., Ltd.	USD	69,603	
		CNY	306,000	
	SK Telesys Co., Ltd.	KRW	30,000	
	SKC (Natong) PU Specialty Co., Ltd.	CNY	151,200	
	SKC (Natong) Semiconductor Materials	CNY	65,000	Guarantee of payment
	Technology Co., Ltd.	USD	31,500	
SK Bioland Co., Ltd.	Bioland Haimen Co., Ltd.	CNY	192,900	
SKC Hi-Tech & Marketing Co., Ltd.	SKC Hi-Tech&Marketing (Suzhou) Co., Ltd.	CNY	106,400	
SK E&S Co., Ltd.	Cailip GAS Marketing, LLC	USD	116,000	
	SK E&S Australia Pty. Ltd.	USD	90,000	Guarantee of debt and others
	Paju Energy Service Co., Ltd.	KRW	500,000	Guarantee of debt and others
	Narae Energy Service Co., Ltd. (formerly, Wirye Energy Service)	KRW	250,000	Guarantee of debt and others
	Prism Energy International Pte. Ltd.	USD	480,000	Guarantee for derivative hedge
	SK E&S LNĞ, LLC	USD	63,000	Guarantee for derivative hedge and others
SK E&S Americas, Inc.	SK E&S LNG, LLC	USD	9,342	Performance guarantee for LPG injection
	Cailip Gas Marketing, LLC	USD	25,000	Performance guarantee for purchase contract of Feed Gas
SK Engineering & Construction Co., Ltd.	SKEC Anadolu LLC	EUR	99,912	Performance guarantees for contract and others
o o		TRY	25,077	Guarantee of W/H Tax
	Silvertown Investco Limited.	GBP	11,599	Guarantee of financial obligation
	Sunlake Co., Ltd.	CAD	6,000	Guarantee of financial obligation
SK Materials Co., Ltd.	SK Materials Jiangsu Co., Ltd.	USD	45,000	Guarantee of debt
	SK Materials Taiwan Co., Ltd.	USD	5,000	Guarantee of debt
	SK Materials Japan Co., Ltd.	JPY	276,000	Guarantee of debt
SK China Company, Ltd.	SK (Beijing) auto rental Co., Ltd.	USD	12,713	
	SK (Shenyang) auto rental Co., Ltd.	USD	9,888	
	SK Rent-A-Car (Qingdao) Co., Ltd.	USD	8,673	Guarantee of debt
	SK Financial Leasing	USD	2,119	Guarantee of debt
SK Biotek Co., Ltd.	SK Biotek Ireland Limited.	USD	50,000	Guarantee for credit limit
		EUR		Performance guarantees
			,	J

34. Financial risk management

Regarding financial instruments, the Group is exposed to a variety of financial risks: credit, liquidity and market. This note presents information related to risk exposures of the Group and the main objective, strategy, evaluation of risk, management process and capital management. Additional quantitative information is stated throughout the interim condensed consolidated financial statements.

34.1 Financial risk management

34.1.1 Risk management activities

The board of directors has overall responsibility for the establishment and oversight of the Group's risk management framework. The board of directors has established the risk management committee, which is responsible for developing and monitoring the Group's risk management policies. The risk management committee reports regularly to the board of directors on its activities. The Group audit committee is assisted in its oversight role by internal audit.

Internal audit undertakes both regular and ad hoc reviews of risk management controls and procedures, the results of which are reported to the Group audit committee. The Group's risk management policies are established to identify and analyze the risks faced by the Group, to set appropriate risk limits and controls and to monitor risks and adherence to limits. Risk management policies and systems are reviewed regularly to reflect changes in market conditions and the Group's activities. The Group, through its training and management standards and procedures, aims to develop a disciplined and constructive control environment in which all employees understand their roles and obligations.

34.1.2 Credit risk

Credit risk is the risk of financial loss of the Group if a customer or counterparty to a financial instrument fails to meet its contractual obligations. In addition, the maximum exposure to credit risk as of June 30, 2020 and December 31, 2019 is as follows (Korean won in millions):

		June 30, 2020	Dece	ember 31, 2019
Financial assets measured at FVTPL	₩	6,366,016	₩	5,164,770
Financial assets measured at FVOCI		20,217		24,047
Financial assets measured at amortized cost		23,935,525		22,034,353
Derivatives designated as hedging instruments		433,810		178,446
	₩	30,755,568	₩	27,401,616

The Group has provided payment guarantees for others including related parties, associates and others. The Group, due to its payment guarantees, is exposed to credit risk (see Note 31).

34.1.2.1 Trade and other receivables

The Group enters into transactions only with customers that are credit worthy. Credit quality of a customer is assessed based on an extensive credit rating scored and individual credit limits are defined in accordance with this assessment. Outstanding customer receivables are regularly monitored and credit quality may be adjusted to reflect the appropriate appetite of credit risk in accordance with the Group's risk management policies.

The Group applies a simplification method that recognizes lifetime expected credit losses as a loss allowance for trade and other receivables. To measure expected credit losses, sales receivables and contract assets were divided based on credit risk characteristics and past due dates

34.1.2.2 Guarantee

SK Engineering & Construction Co., Ltd., one of the subsidiaries, offers payment guarantees for loans of project financing. The financing liabilities related to the payment guarantees recognized are \mathbb{W} 13,847 million as of June 30, 2020. The Group recognizes the financial guarantee liabilities related to the payment guarantees contracted with the Group, such as SK Engineering & Construction Co., Ltd., as of June 30, 2020 and December 31, 2019.

		June 30, 2020		December 31, 2019
SK Innovation Co., Ltd.	₩	2,373	₩	252
SK Engineering & Construction Co., Ltd.		13,847		15,006
SK Biotek Co., Ltd.		654		656
	₩	16,874	₩	15,914

In addition, the Group has provided payment guarantees for others, including subsidiaries and others. (see Notes 31 and 33).

34.1.2.3. Other financial assets

Credit risk arising from other financial assets consists of long-term and short-term financial instruments, occurrence of trade opponent arising from the bankruptcy, etc. In this case, the credit risk exposure of the Group will be the same as the book value of the maximum applicable financial instruments. On the other hand, the management of the Group's credit rating, because it is excellent to deal with financial institutions, is judged to have limited impact on the credit risk of the financial institutions of the Group.

34.1.3 Liquidity risk

Liquidity risk is the risk that the Group encounters difficulty in meeting the obligations of the financial liabilities. The Group's approach to managing liquidity is to ensure, as far as possible, that it will always have sufficient liquidity to meet its liabilities when due, under both normal and stressed conditions, without incurring unacceptable losses or risking damage to the Group's reputation.

The contractual maturity of financial liabilities as of June 30, 2020 is as follows. Amounts include interests paid and presented at gross amounts (Korean won in millions):

	Book value	Contractual cash flow	Less than 3 months	3~12 months	1~5 years	More than 5 years
Loans and borrowings	₩ 19,616,176	₩ 20,541,287	₩ 5,168,515 ₩	5,046,143 ₩	9,496,196	₹ 830,433
Bonds	30,384,137	33,318,797	1,017,776	3,684,871	21,560,996	7,055,154
Derivative financial liabilities	s 393,355	373,250	40,849	20,116	311,231	1,054
Trade payables	6,233,106	6,233,107	5,859,541	372,015	1,551	-
Lease liabilities	4,062,226	4,346,268	177,867	955,243	2,510,064	703,094
Other liabilities	9,443,124	10,146,204	7,086,995	1,504,228	1,141,093	413,888
	₩ 70,132,124	₩ 74,958,913	₩ 19,351,543 ₩	<u>11,582,616</u> ₩	<u>35,021,131</u> ₩	<i>9,003,623</i>

34.1.4 Market risk

Market risk is the fluctuating risk in fair value of the financial instruments or future cash flows caused by the changes in market price. Market risk consists of currency risk, interest rate risk, crude oil and petroleum product price risk, and others. The fundamental goal of market price management is the maximization of the profit and the limit of the exposure to market risk within an acceptable level. The Group sells and purchases financial derivatives and financial instruments or financial liabilities for the purpose of controlling the market risk. In general, the Group applies hedge accounting in order to minimize the volatility of profit.

34.1.4.1 Currency risk

The Group is exposed to foreign currency risk arising from sales and purchases denominated in currencies other than functional currency. Main currencies used for these transactions are USD, JPY, CNY and EUR.

Details of foreign currencies and liabilities as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions and foreign currencies in thousands):

		June 3	0, 2020	December 31	, 2019
		Foreign	Korean won	Foreign I	Korean won
	Currency	currencies	equivalent	currencies	equivalent
Assets	USD	8,676,280	₩ 10,417,609	6,397,693 ₩	7,407,249
	JPY	18,733,344	209,073	15,334,962	163,083
	CNY	1,360,776	230,869	2,740,998	454,293
	EUR	634,521	856,724	183,935	238,642
	Others		807,245		332,025
			<u>₩ 12,521,520</u>	\overline{W}	8,595,292
Liabilities	USD	8,901,808	₩ 10,688,401	9,848,768 ₩	11,402,904
	JPY	8,361,426	93,318	5,273,049	56,077
	CNY	2,421,595	410,848	1,968,261	326,220
	EUR	375,729	507,306	207,774	269,572
	Others		636,230		535,864
			<u>₩ 12,336,103</u>	\overline{W}	12,590,637

Should the exchange rate of the aforementioned currencies fluctuate by 10%, the effects on equity would be as follows (Korean won in millions):

			June 30, 2020			December 31, 2019			
	Currency	Increase by ?	<u>10%</u> D	Decrease by 10%	Increase by 10%	Decrease by 10%			
USD		₩ (2	7,079) ₩	27,079	₩ (399,566)	₩ 399,566			
JPY		1	1,576	(11,576)	10,701	(10,701)			
CNY		(1	7,998)	17,998	12,807	(12,807)			
EUR		3	4,942	(34,942)	(3,093)	3,093			

The Group is hedging currency risk by using derivative financial instruments such as currency swaps, currency forwards and others (See Note 19).

34.1.4.2 Interest rate risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. The Group's exposure to the risk of changes in market interest rates relates primarily to the Group's long-term debt obligations with floating interest rates. The Group's management has entered into the foreign currency swap and interest rate swap contracts to manage its interest rate risk (see Note 19).

34.2 Capital risk management

The fundamental goal of capital management is to keep a sound financial structure. The Group is using the debt ratio, calculated as total debt divided by total amount of capital, as an indicator of capital management. The Group maintains a debt ratio of 155.9% as of June 30, 2020. The maturity of the debt is dispersed in the long term; so, debt-repayments are not demanding.

The Group's debt ratio as of June 30, 2020 and December 31, 2019 are as follows (Korean won in millions):

		June 30, 2020	December 31, 2019
Total liabilities	₩	82,919,328 ₩	79,838,041
Total equity		53,187,670	52,182,635
Debt ratio		155.9%	153.0%

35. Business combination

As of June 30, 2020, details of business combination are as follows.

(1) General information

SKC Co., Ltd., a subsidiary of the Group, gained control by acquiring 100% of shares in KCF Technologies Co., Ltd. on January 1, 2020, the deemed acquisition date, through SKCFT Holdings Co., Ltd. With control of KCF Technologies Co., Ltd., the Group expects to be able to enter and expand into a scalable mobility business.

SK Siltron Co., Ltd., a subsidiary of the Group, decided to purchase the SiC Wafer business unit of DDP Specialty Electronic Materials US 9, LLC, a subsidiary of DuPont de Nemour Inc., on September 10, 2019 to strengthen its business portfolio through new advancement into the material industry, and completed the transfer of its business unit on February 29, 2020.

On October 14, 2019, SK Global Chemical Co., Ltd., subsidiary of the Group, decided to acquire French functional polymer businesses and related tangible/intangible assets owned by Arkema France SA in accordance with the resolution of the board of directors, and completed the acquisition during the six months ended June 30, 2020. From the acquisition above, the Group expects to diversify its product portfolio in high value-added packaging field.

On April 30, 2020, SK Broadband Co., Ltd. merged with Tbroad Co., Ltd., Tbroad Dongdaemun Broadcasting Co., Ltd. and Korea Digital Cable Media Center Co., Ltd for an improved competitiveness and synergetic effect and to become a comprehensive media business. The consideration transferred for the business combination was calculated at fair value as of the date of merger of the shares granted according to the merger ratio.

SK Telecom Co., Ltd., a subsidiary of the Group, gained control by acquiring 55% (627,000 shares) of Tbroad Nowon Broadcasting Co., Ltd. and changed its name from Tbroad Nowon Broadcasting Co., Ltd. to Broadband Nowon Broadcasting Co., Ltd. The consideration transferred for the business combination of #10,421 million was all paid in cash, and the difference between the fair value of identifiable net asset and the consideration transferred of #73.3 million was fully recognized as gain on bargain purchase.

The above business combinations occurred for the six months ended June 30, 2020, were accounted for using the acquisition method, and the consolidated financial statements include the financial performance of the acquiree from the acquisition date to June 30, 2020.

35. Business combination (cont'd)

(2) Identifiable assets acquired and liabilities assumed

1) Identifiable assets acquired and liabilities assumed due to merger are as follows (Korean won in millions):

,		Technologies Co., Ltd.		SiC Wafer business	Arkema France SA's functional polymer business	Tbroad Co., Ltd. and others	Tbroad Co., Ltd. Nowon Broadcasting
Assets:							
Cash and cash equivalents	₩	33,943	₩	-	₩ -	₩ 110,644	₩ 18,106
Trade and other receivables	-	57,445		-	22,744	66,241	1,122
Inventories		40,938		11,297	60,262	-	-
Property, plant and equipment	t	250,175		22,318	41,483	237,348	1,705
Right-of-use ass assets	sets	1,252		67,517	-	8,306	79
Intangible asset	s	390,409		-	81,850	424,267	360
Other assets		6,795		-	-	73,500	595
Liabilities:							
Trade and other payables	r	66,220		-	-	105,179	1,351
Borrowing liabili	ities	176,295		-	-	-	-
Lease liabilities		1,383		67,517	-	8,307	71
Current tax liabilities		6,738		-	-	11,896	-
Deferred tax liabilities		89,990		-	-	84,150	-
Defined benefit liabilities		1,371		-	2,891	30	-
Other non-curre	ent						
liabilities		555		-	3,357	11,777	265
Fair value of identifiable							
net assets	₩	438,405	₩	33,615	₩ 200,091	₩ 698,967	₩ 20,280

As of June 30, 2020, the fair value of the assets acquired and liabilities assumed was determined tentatively because independent valuation was not completed.

3) Goodwill arising from business combination is as follows (Korean won in millions):

КС	F Technologies Co., Ltd.		SiC Wafer business		ema France SA's ctional polymer business		road Co., Ltd. and others	Т	broad Co., Ltd. Nowon Broadcasting
a. The total ₩ consideration transferred	1,190,000	₩	549,250	₩	450,004	₩	862,147	₩	10,421
b. Fair value of proportionate share of acquired net assets	I								
Fair value of the net identifiable assets	438,405		33,615		200,091		698,967		20,280
Non-controlling Interests	-		-		-		-		(9,126)
b. Goodwill (c=a-b)	751,595		515,635		249,913		163,180		(733)

36. Subsequent events

36.1 Interim dividend payment of SK Holdings Co., Ltd.

SK Holdings Co., Ltd. declared to pay interim dividend in accordance with the board's resolution on July 21, 2020 as follows:

	Details
Amount of interim dividend	${\mathbb W}$ 1,000 per share (total amount of dividend: ${\mathbb W}$ 52,869 millions)
Ratio of dividend to market value	0.3% (ordinary shares), 0.3% (preferred shares)
Basic date for dividend	June 30, 2020
Date of dividend payment	Within one month from the resolution date by Commercial Act Article 464-2 (1)

36.2 Interim dividend payment of SK Telecom Co., Ltd.

SK Telecom Co., Ltd. declared to pay interim dividend in accordance with the board's resolution on July 21, 2020 as follows:

	Details
Amount of interim dividend	${\mathbb W}$ 1,000 per share (total amount of dividend: ${\mathbb W}$ 73,136 millions)
Ratio of dividend to market value	0.5%
Basic date for dividend	June 30, 2020
Date of dividend payment	Within one month from the resolution date by Commercial Act Article 464-2 (1)

36.3 Acquisition of treasury stock of SK Materials Co., Ltd.

SK Materials Co., Ltd., a subsidiary of the Group, decided to acquire treasury stock to enhance shareholder value through stock price stabilization in accordance with the Board's resolution on July 16, 2020. The expected number of shares to be acquired is 530,000 common shares, and the expected date for completion of acquisition is October 16, 2020. SK Materials Co., Ltd. will hold the treasury stocks for more than six months from the date of final acquisition.