FUTURING SMART ENERGY

4Q 2019 Review & Outlook

LSIS

Disclaimer

This presentation material is prepared for investors' reference, based on data that have not been filed with the financial supervisory commission.

Actual business performance may not necessarily be consistent with the projections herein, as a result of unexpected changes in the market environment and other conditions.

The financial information in this document are consolidated earnings results based on K-IFRS.

I. Results & Outlook

4Q 2019 Total Results

Income Statement

Sales 699bwn (YoY 69bwn increased), Operating Profit 43bwn (YoY 12bwn increased) Sales profit increase by Convergence Segment

Segment	4Q 2018	3Q 2019	4Q 2019	YoY	QoQ
Sales	630	548	699	69	151
Operating Profit	32	53	43	12	△10
Profit before tax	23	52	22	∆1	∆30
Net income	14	38	13	∆2	△25

(unit : bwn)

(unit : bwn) 141 Subsidiaries 152 Convergence 139 139 72 Automation 38 70 67 66 Electric 201 Infra 198 148 Electric 169 161 Equipment 152 4Q 2018 3Q 2019 4Q 2019

- * Subsidiaries includes LS Metal, LS Sauter, LS Mecapion, LSIS Wuxi, LSIS Dalian and LS-Vietnam
- ** Convergence Business includes Trans SOC, Solar, Smart-Grid and EV components.
- *** Sales of subsidiaries are before the consolidated adjustments.

Sales Breakdown by Business



4Q 2019 Financial Position

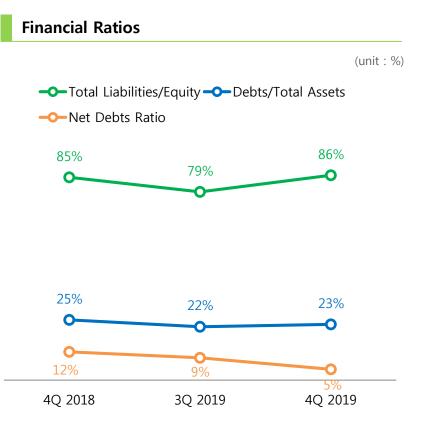
Total assets 2,538bwn (YoY 132bwn increased)

Net Debts Ratios reduced YoY 7% (stable financial structure)

(unit : bwn)

Financial Statement

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Segment	4Q 2018	3Q 2019	4Q 2019	YoY	QoQ
Total Assets	2,406	2,436	2,538	132	102
Current Assets	1,536	1,543	1,667	131	124
Cash & cash equivalent	456	421	535	79	114
Total Liabilities	1,108	1,077	1,175	67	98
Debts	610	548	596	△14	48
Net Debts	155	127	62	∆93	△66
Equity	1,297	1,358	1,363	65	4





Business Results & Outlook

Electric Equipment – Sales increased in Domestic/Overseas mkt (Semiconductor, Vietnam) Electric Infra – Sales increased due to Domestic mkt (Major Company, Extra-high voltage)

Electric Equipment





- Sales increased YoY 6%, OP decreased YoY 5%
- Sales increased in Semiconductor/Europe/Vietnam mkt
- Profit decreased by foreign exchange rate,S&A exp
- Sales in good condition in Global DC Equipment mkt
- Boosted sales in Europe Renewable mkt
- Expanded Korea Photovoltaic/ESS mkt
- Sales increased YoY 2%, OP decreased YoY 18%
- Domestic sales increased in Major Company
- decrease profitability due to Product Mix
- Increasing Investment in Chemical/oil refinery business
- Battery/Chemical/Refinery/Semiconductor Plant
- Kepco increase budget(transmission & transformation)



Business Results & Outlook

Automation – Sales increased in Domestic/Overseas mkt (Machinery mkt/ Europe) Convergence- Sales increased in Smart-Grid(ESS)/Solar, Profit increased in Smart-Grid business

Automation



Sales increased YoY 5%, OP decreased YoY 37%

- Sales increase in Domestic mkt (Machinery)
- Sales increased in Overseas (Europe)
- Strengthen Overseas sales in Target Area (South-East Asia, North America)
- Expect Japan alternative demand in Domestic mkt

Convergence Business



- Sales increased YoY 93%, OP increased YoY 102%
 - Sales increased Smart-Grid (ESS)/Solar business
 - Profit increased by Smart-Grid(ESS)
- Large size Solar EPC PJT increasing in Korea mkt
- Sae Man Keum / Bigeumdo island
- Boosted EV components Sales in China/Europe mkt



Business Results & Outlook

China business keep favorable condition by Electric equipment, Relay, Korea PJT LS Metal – Profit increased by Stainless steel (LNG vessel)

Subsidiaries



- Sales decreased YoY 8%, OP increased YoY 167%
 - LS Metals profit increased by STS
 - China keep good business condition due to Electric equipment/Relay,Korea PJT
- LS Metals performance keep improving in Shipbuilding mkt



II. Company & Business Introduction

Growing into a World's Best from the Nation's First!

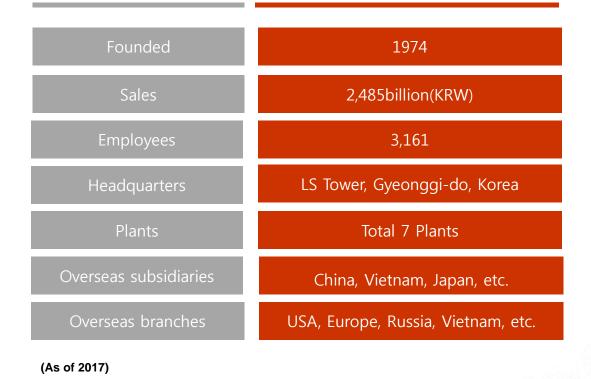
Leading company in the industrial electric, electronics, materials and energy field following its separation from LG in 2003

LS History



Leader in Power Solutions, Automation & Green Business

The Leading Company in the Power Distribution & Automation Industry The first to build a Smart Grid, Green Village and Green Factory







1. A History of Challenging the Future (1970's ~ 2007)

1970's '74 Jul. Established Goldstar Instrument & Electrical Co., Ltd

1980's '87 Mar. Established Goldstar Industrial Systems Co., Ltd.

- **2007** Feb. Opened Marketing Subsidiary in Dubai
- 2005 Mar. Renamed from LG to LS Industrial Systems Sep. Constructed the Electric & Automation equipment factory in Wuxi, China



1990's '94 Jul. Listed Goldstar Industrial Systems on the Korea Stock Exchange

- '95 Feb. Renamed from Goldstar to LG Industrial Systems (LGIS)
- '95 Sep. LGIS merged Goldstar I&E & Goldstar Mechanical & Electrical
- '99 Apr. LGIS merged LG Metal
- '99 Aug. Sold copper smelting, Vending Machine, Elevator & Escalator unit



2. Shifting the strategy to growth paradigm (2007 ~ 2012)



- Apr. Construction of Busan plant completed
- May. LS Hogae Electric established in China
- May. LS Industrial Systems(currently LSIS) got the largest number of Green Certification as the first company in Korea
- Jul. LS Industrial Systems(currently LSIS) opened R&D Center in Beijing, China

3. Challenging for the future of Smart Energy (2013 ~ 2015)

2015 Jan. Declared value-based management Mar. Newly constructed R&D campus in Anyang

2013 Apr. Awarded the Great Place to Work Award for 2 consecutive years

- May. MOU with China's Dongfang Group for developing green automobile parts
- May. Concluded contract for the transfer of HVDC technology, and partnered with KAPES and Alstom
- Jun. Awarded the Best Korean Company Grand Award
- Oct. Selected as one of the Top 100 Global Innovators by Thompson Reuters
- Nov. Awarded the 39th Korea National Quality Grand Award
- Dec. Won the 500 million Trade Tower Award







2014 Jan. Launched new strategic automation product lines for A&D

- May. LSIS Vice Chairman Ja-kyun Koo Received Gold Tower Order of Industrial Service Merit
- May. Won the World's Largest Order for Smart Grid Project in Iraq
- Jun. Awarded the Best Korean Company Grand Award for 7 consecutive years
- Jul. Marked the 40th anniversary of the foundation
- Sep. Ranked number one in the Korean Standard Quality Excellence Index for 2 consecutive years
- Nov. Selected as one of the Top 100 Global Innovators by Thompson Reuters



Mar. Anyang R&D Campus acquired BEMS certification for the first time in Korea.

Sep. Selected as the best business in automobiles interms of KS-QEI for four years in a row.

Sep. Anyang R&D Campus certified as the first business that established ESS (Emergency Support



2017

Korea.

Feb. Named one of the world's top 100 businesses in paten: applications in Europe.

Jun. Named Best Business in Korea for ten consecutive years. Sep. Won a prize from the Minister of Trade, Industry, and Energy as a praiseworthy business in strategic items. Oct. Finished the work for the construction of the largest (28MW) PV plant in Chitose, Hokkaido, Japan. Dec. Finished the work for the construction of a 3MW floating

PV plant on Cheongpungho lake, the largest of its kind in





Jan. Selected as one of the world's top 100 innovative businesses.

Apr. Finished the work for the construction of MW ESS-linked PV plant at the Hwamyeong Water Treatment Plant in Busan.

Dec. Acquires ESS Unit of North America's ESS Leader Parker-Hannifin





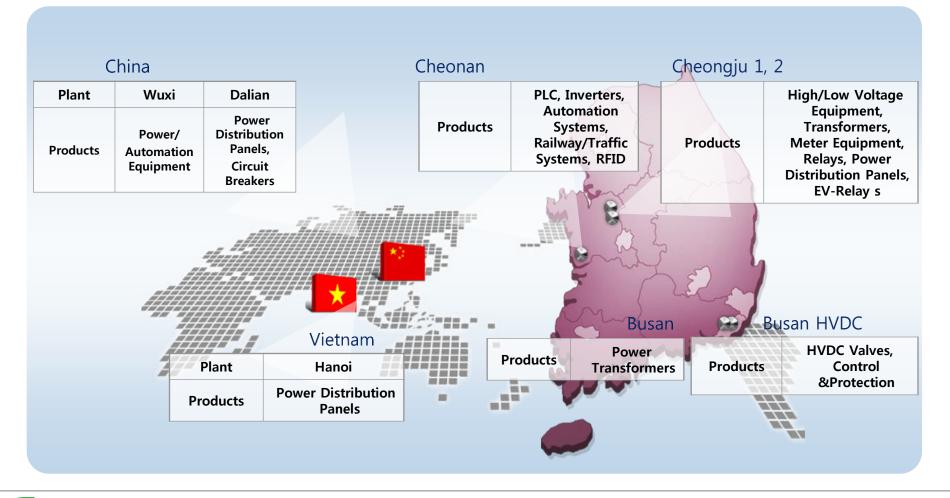


Strengthening the Business Portfolio through M&As





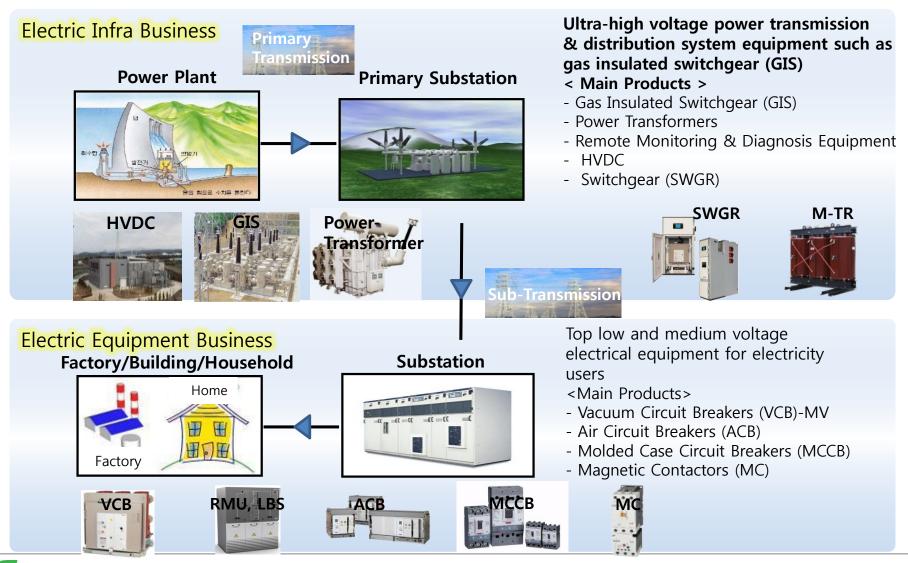
- Domestic: 5 Plants (Cheongju 1 & 2, Cheonan, Busan, Busan HVDC)
- Overseas: 4 Plants (China: Dalian, Wuxi, Hubei / Vietnam: Hanoi)



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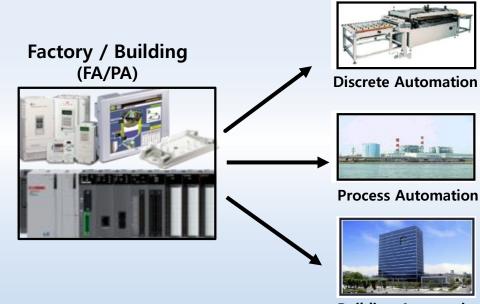
5)Plants

Leading Provider of Total Electric Power, Automation & Green Business Solutions



Business Introduction

Automation Business



Building Automation

From simple automation control to large-scale manufacturing facilities and process control, LSIS provides the optimal solutions to diverse industrial fields.

< Main Products >

- Variable Frequency Drive
- PLC (Programmable Logic Controller)
- HMI (Human Machine Interface)
- Servo Drive & Motor
- DCS (Distributed Control System)
- RTU (Remote Terminal Unit)

Convergence Business



Smart Grid



Green Car Solution



Photovoltaic System



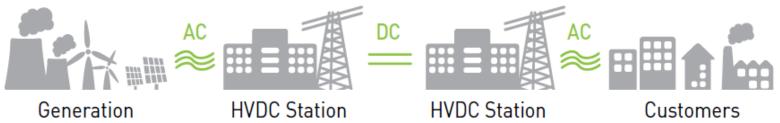
Railway System



HVDC

HVDC system converts AC to DC to transmit long distance and then converts back again to

Connect with the AC grid with very low loss



Long Distance Transmission with Lower Cost

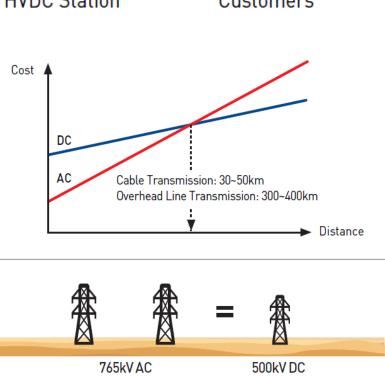
HVDC is the only option for the overhead transmission longer than 300km or submarine/underground 40km thanks to DC characteristics.

Eco-friendly Transmission

HVDC system has lower environmental impact because it requires fewer overhead lines comparing to AC system. The technology is also the key component in the future energy system based on renewable energy sources.

Optimal Grid Management

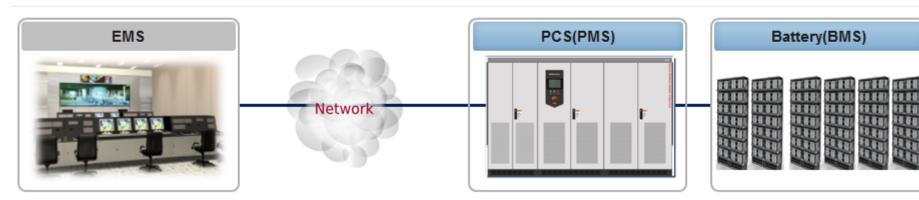
HVDC can directly interconnect load centers with huge energy sources efficiently. Therefore, negative impact on the grid is minimized. HVDC also improves the performance of AC grid by means of additional controllability.



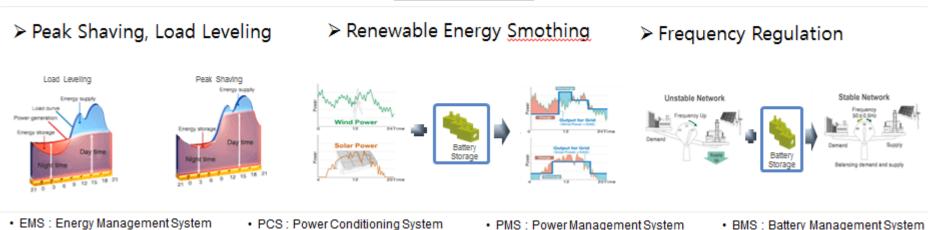


ESS Applications

ESS(Energy Storage System) includes PCS(Power Conversion System) and battery, and make an efficient way of use electricity power



Function of ESS



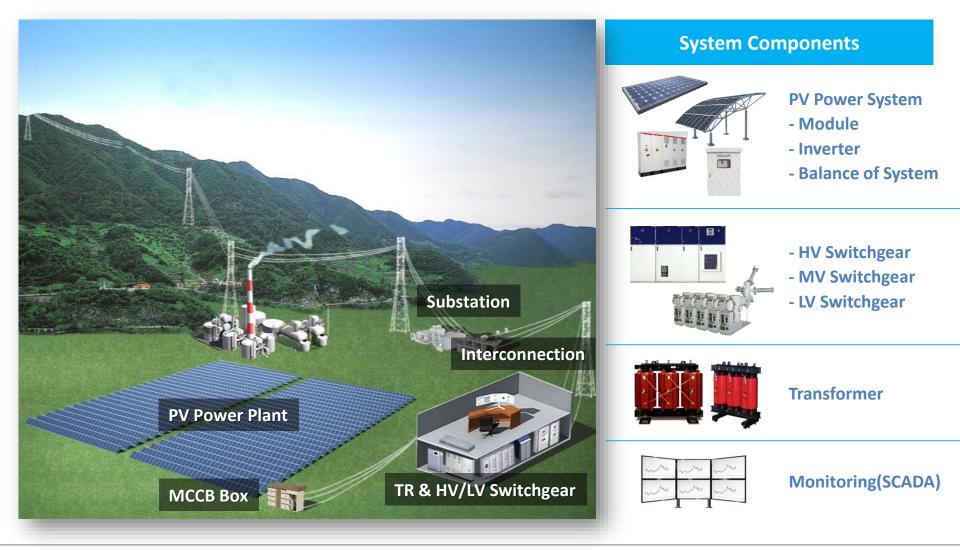
Concept of ESS





PV Power Plant

We provide total solution for PV Power Plant. In addition to PV products, we can provide customers with all kinds of electric power equipment manufactured by LSIS.







Income statement

Segment	4Q 2018	3Q 2019	4Q 2019	YoY	QoQ
Sales	630	548	699	10.9%	27.5%
Cost of Sales	△525	∆430	△576	9.7%	33.9%
Gross Profit	106	118	123	16.8%	4.3%
(%)	(16.8%)	(21.6%)	(17.6%)	-	-
SG&A	∆74	∆65	∆80	8.4%	23.0%
Operating Profit	32	53	43	36.4%	△18.7%
(%)	(5.0%)	(9.7%)	(6.2%)	-	-
Non-OP and Loss	9	∆2	∆22	147.5%	1,279.2%
Profit before tax	23	52	22	△5.7%	△58.0%
Net Income	14	38	13	△10.8%	△66.2%
(%)	(2.3%)	(6.9%)	(1.8%)	-	-
EBITDA Margin	7.2%	12.8%	7.0%	-	-

(unit : bwn, %)

Statement of Financial position

(unit : bwn, %)

Segment	4Q 2018	3Q 2019	4Q 2019	QoQ	YoY
Total Assets	2,406	2,436	2,538	5%	4%
Current Assets	1,536	1,543	1,667	9%	8%
Cash&Cash Equivalents	456	421	535	17%	27%
Inventories	197	206	196	∆0%	∆5%
Other Current Assets	884	917	936	6%	2%
Non-Current Assets	870	893	871	0%	∆2%
Tangible Assets	554	553	554	0%	0%
Intangible Assets	127	125	114	∆11%	∆9%
Other Non-Current Assets	189	214	204	8%	∆5%
Total Liabilities	1,108	1,077	1,175	6%	9%
Current Liabilities	700	738	754	8%	2%
Short-term borrowings	211	249	197	∆7%	∆21%
Non-Current Liabilities	408	340	422	3%	24%
Long-term borrowings	399	299	399	∆0%	33%
Equity	1,297	1,358	1,363	5%	0%
Current Ratio	219%	209%	221%	1%	6%
Equity/Total Assets	54%	56%	54%	∆0%	∆4%
Total Liabilities/Equity	85%	79%	86%	1%	9%
Net debts Ratio	12%	9%	5%	△62%	△52%

Statements of Cash Flows

(unit : bwn)

Compant	110.40	110.40	\/_\/
Segment	'18.4Q	'19.4Q	YoY
Cash and cash equivalents at the beginning of year	262	456	194
Cash Flows From Operating Activities	205	216	12
Cash Flows From Investing Activities	67	∆79	∆ 146
Сарех	∆37	△60	∆23
R&D	△11	∆8	4
Others	116	△11	△127
Cash Flows From Financing Activities	∆81	△58	23
Effect of exchange rate changes on cash and cash equivalents	3	∆1	∆3
Cash and cash equivalents	456	535	79



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(unit : bwn)

						16					17					18					19			Y-o-Y
	Segment					Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	(4Q)		
			Domestic	95	101	102	101	399	115	111	109	100	435	111	107	106	95	419	109	103	105	102	418	
	Electric	Sales	Overseas	61	62	55	57	235	59	61	56	55	230	52	56	50	57	215	52	68	64	60	244	29%
	Equipment		Total	157	163	157	157	634	173	172	165	155	665	163	163	156	152	634	161	171	169	161	662	8%
		Opera	ting Profit	36	36	37	33	142	40	36	37	26	139	34	32	30	25	121	31	35	34	24	125	16%
			Domestic	64	82	105	141	392	90	106	131	120	447	134	115	107	161	516	90	115	113	169	487	6%
	Electric	Sales	Overseas	36	33	20	46	134	41	40	38	55	174	30	44	23	37	134	30	39	35	32	136	52%
	Infra		Total	100	114	125	187	526	130	147	169	175	621	164	159	130	198	650	120	154	148	201	623	14%
		Opera	ting Profit	⊿5	0	⊿7	8	∆4	0	2	13	14	29	14	10	4	17	45	1	0	$\triangle 1$	14	13	△134%
		tomation Sales	Domestic	46	48	47	45	186	48	49	51	44	193	54	56	48	49	207	44	47	47	51	188	∆2%
			Overseas	26	23	19	20	88	24	24	26	20	94	26	21	21	18	86	21	21	19	20	81	∆7%
HQ			Total	72	71	66	65	274	72	73	77	64	287	80	78	69	67	293	65	68	66	70	269	∆3%
		Opera	ting Profit	9	6	6	6	27	8	10	12	6	36	11	12	9	9	40	5	6	7	5	23	△25%
			Domestic	38	46	30	56	171	26	36	31	52	145	32	90	68	56	246	25	24	33	118	199	△51%
	C	Sales	Overseas	17	17	31	42	107	23	26	24	15	89	16	27	23	16	82	16	16	5	21	57	△77%
	Convergence Business		Total	56	63	61	98	278	48	63	55	68	234	48	117	91	72	328	40	39	38	139	256	△58%
	Dusiness	Opera	ting Profit	△10	△15	△11	∆31	△67	△14	∆9	∆8	∆28	△60	∆8	1	∆3	<i>∆21</i>	∆31	∆9	⊿5	6	0	∆6	284%
			Domestic	244	277	284	343	1,148	278	303	322	317	1,220	330	369	328	360	1,388	267	289	298	439	1,293	∆9%
	Subtotal	Sales	Overseas	141	134	125	164	564	146	151	145	145	587	124	148	117	128	518	118	144	123	132	517	6%
	SUDIOIAI		Total	385	411	409	507	1,712	425	454	467	461	1,807	455	517	445	489	1,905	386	432	421	571	1,810	△5%
	0	Opera	ting Profit	29	27	25	16	97	34	38	53	18	143	50	55	39	30	175	28	36	46	44	155	18%

Appendix 2. Results for the past 4 years

Subsidiaries

(unit : bwn)

	C					16					17					18					19			Y-o-Y
	Segme	nt		1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	(4Q)
			Domestic	25	28	33	40	126	34	37	41	43	156	39	41	33	40	153	43	43	42	45	174	27%
	LS	Sales	Overseas	45	36	29	37	147	49	39	37	43	167	48	38	38	46	169	31	38	25	29	123	∆33%
	Metal		Total	70	64	62	77	273	83	76	79	85	323	87	79	71	85	322	75	81	68	74	297	△5%
		Opera	ting Profit	1	1	arrow 1	∆0	0	0		arrow 1	1			∆0	1	1	2	⊿2	2		1	1	△122%
	Subsidiaries	S	Sales	10	11	13	25	58	16	22	19	16	72	15	15	17	13	59	10	15	9	13	46	∆48%
Subsidi	(Korea)	Opera	ting Profit			1	2	2	1	3	2	1	7	2	2	1	⊿0	4	riangle 1	arrow 1	arrow 1	angle 1	agenup 4	△251%
aries	Subsidiaries	S	Sales	49	53	42	44	188	39	45	38	48	170	39	82	63	41	225	57	61	57	44	220	∆9%
	(China)	Opera	ting Profit	5	5	4	2	16	1	3	0	3	6	1	10	8	⊿2	16	5	9	5	1	20	∆30%
	Subsidiaries	S	Sales	0	0	0	0	0	0	0	0	0	0	4	6	6	13	29	6	10	5	10	30	△11%
	(Vietnam)	Opera	ting Profit	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0		0	1	△562%
	Subtotal	5	Sales	129	128	117	146	519	138	143	135	149	565	145	182	156	152	636	147	167	139	141	594	△11%
	Subtotal	Opera	ting Profit	5	5	4	4	18	2	6	1	4	13	3	12	10	ightarrow 1	23	3	10	3	1	17	△64%

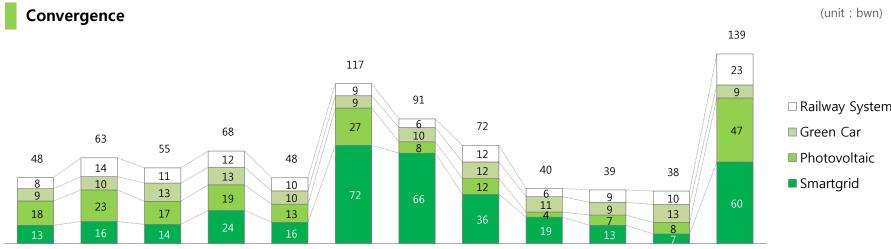
Consolidated

(unit : bwn)

Cogmont	16						17					18						19					
Segment	1Q	2Q	3Q	4Q	Total	1Q	2Q	ЗQ	4Q	Total	1Q	2Q	ЗQ	4Q	Total	1Q	2Q	3Q	4Q	Total	(4Q)		
Consolidation adjustment for Sales	△12	∆14	∆2	10	△18	∆3	⊿9	△11	⊿5	∆29	∆8	∆39	1	⊿10	∆56	∆14	∆18	∆11	∆13	⊿57	△906%		
Consolidation adjustment for OP	0	0	1	8	9	0	_∆0	1	1	3	2	∆2	4	3	7	⊿2	∆3	3	⊿1	∆3	∆8%		
Total Sales	501	525	524	663	2,214	559	588	591	605	2,344	592	661	602	630	2,485	519	581	548	699	2,347	∆9%		
Total Operating Profit	35	32	30	28	124	36	44	55	23	158	55	65	53	32	205	29	43	53	43	169	1%		



Appendix 3. Sales details for Convergence & Subsidiaries



1Q 2017 2Q 2017 3Q 2017 4Q 2017 1Q 2018 2Q 2018 3Q 2018 4Q 2018 1Q 2019 2Q 2019 3Q 2019 4Q 2019

Subsidiaries

