FUTURING SMART ENERGY

2Q 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.

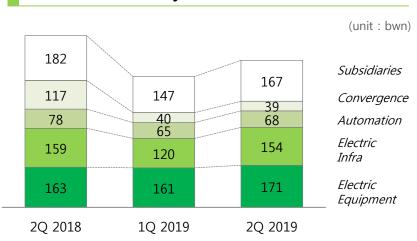
The financial information in this document are consolidated earnings results based on K-IFRS.

I. Results & Outlook

2Q 2019 Total Results

Sales 581bwn (YoY 80bwn decreased), Operating Profit 43bwn (YoY 22bwn decreased) Sales/ Sales profit decrease by Electric Infra & Convergence Segment

Income State	ement														
	(unit : bwn														
Segment	2Q 2018	1Q 2019	2Q 2019	YoY	QoQ										
Sales	661	519	581	∆80	62										
Operating Profit	65	29	43	∆22	15										
Profit before tax	57	36	38	△19	2										
Net income	40	26	26	△14	∆0										



Sales Breakdown by Business

- * 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.

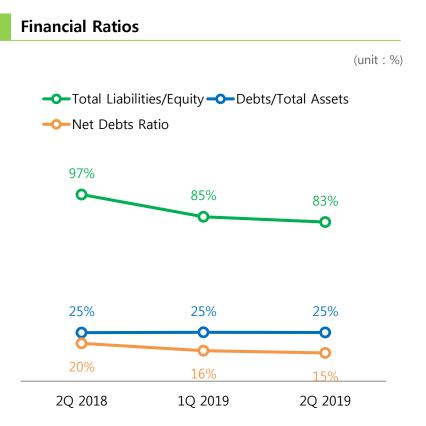


2Q 2019 Financial Position

Total assets 2,407bwn (YoY 46bwn increased)

Total liabilities/Equity Ratios reduced YoY 14% (83%p, stable financial structure)

Financial Statement (unit : bwn) 1Q 2019 Segment 2Q 2018 2Q 2019 YoY QoQ Total Assets 2,361 2,397 2,407 46 10 Current Assets 1,542 1,504 1,497 △45 ∆7 Cash & 402 12 359 414 55 cash equivalent **Total Liabilities** 1,161 1,103 1,088 △73 $\triangle 15$ Debts 595 607 607 12 riangle 0Net Debts 236 205 193 ∆43 △12 Equity 1,200 1,294 1,318 119 25



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Business Results & Outlook

Electric Equipment – Sales/Profit increased in Overseas mkt (Vietnam & foreign exchange rate) Electric Infra – Sales/profit decreased due to in Domestic mkt (Major Company,Product Mix)

Electric Equipment





- Sales increased YoY 5%, OP increased YoY 9%
- Sales increased in Europe DC Component
- Sales Recovered in Middle East (UAE)
- Profit increased by foreign exchange rate
- Sales increased in Global DC Equipment mkt
- Boosted sales in Europe Renewable mkt
- Expanded Korea Photovoltaic/ESS mkt
- Sales decreased YoY 3%, OP decreased YoY 99%
- Domestic sales decreased by Plant investment reduce
- decrease profitability due to SWGR/M-TR reduce
- Keep Global Investment in Chemical business
- EV battery extension Plant in China/Poland/Vietnam

Business Results & Outlook

Automation – Sales decreased in Domestic/Overseas mkt (Machinery,Iran) Convergence- Sales/Profit decreased in Smart-Grid & Solar

Automation



Convergence Business



Sales decreased YoY 13%, OP decreased YoY 48%

- Sales decrease in Domestic mkt (Machinery)
- Sales decreased in Overseas (Middle East Iran)
- Profit decreased by temporary issue
- Strengthen Overseas sales in Target Area (South-East Asia, North America)

- Sales decreased YoY 67%, OP decreased YoY 414%
- Sales decreased Smart-Grid & Solar business
- EV components keep profit status
- Won large size Solar EPC PJT in Korea mkt
- Young Am Solar PJT(184bwn)
- ESS system included in PV product
- Boosted EV components Sales in China/Europe mkt

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Business Results & Outlook

Wuxi & Dalian keep favorable condition by Electric equipment, Relay / Korean PJT LS Metal – Sales/Profit increased by Stainless steel (LNG Vessel effect)

Subsidiaries



- Sales decreased YoY 8%, OP YoY 16% decreased
- LS Metals sales/profit increased in shipbuilding mkt
- Wuxi & Dalian keep good business condition due to Electric equipment & Korean PJT
- LS Metals performance keep improving in Shipbuilding mkt
- Wuxi performance improving by better Electric Car mkt condition in China.



II. Company & Business Introduction

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

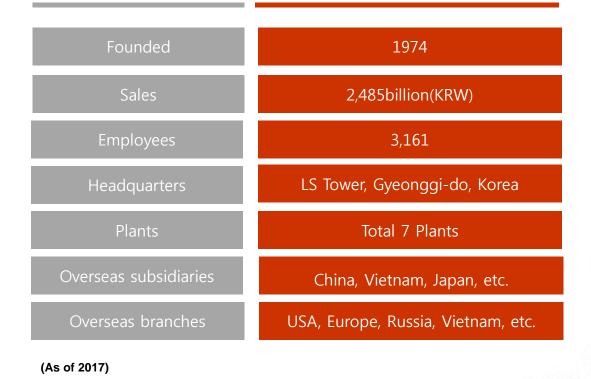
Leading company in the industrial electric, electronics, materials and energy field following its separation from LG in 2003

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







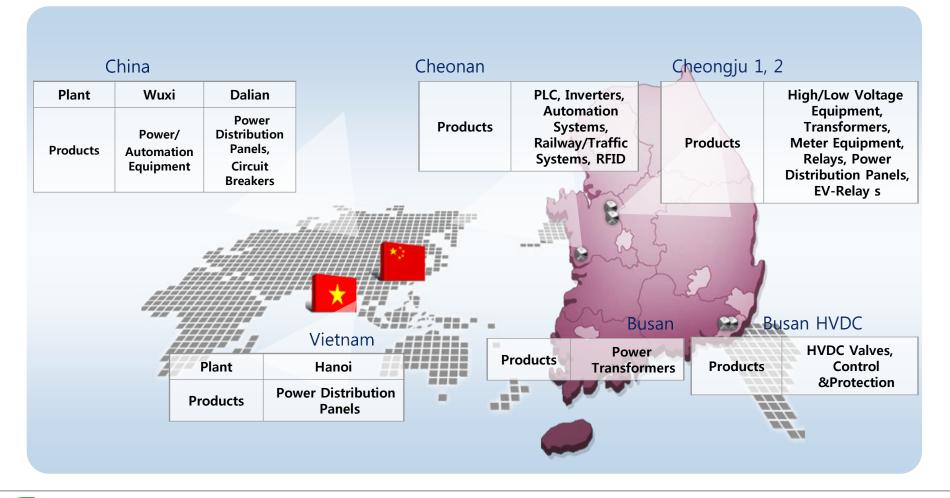
Strengthening the Business Portfolio through M&As



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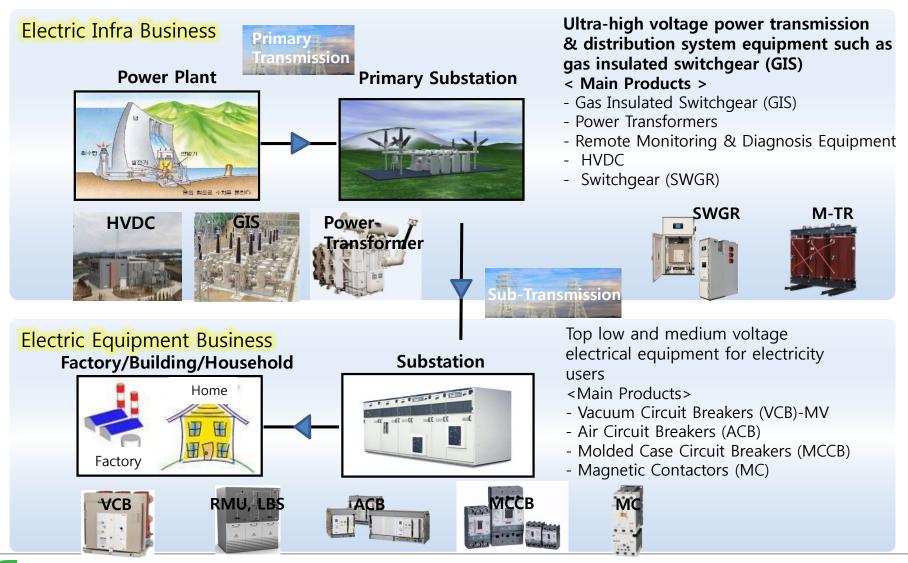
- Domestic: 5 Plants (Cheongju 1 & 2, Cheonan, Busan, Busan HVDC)
- Overseas: 4 Plants (China: Dalian, Wuxi, Hubei / Vietnam: Hanoi)



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5)Plants

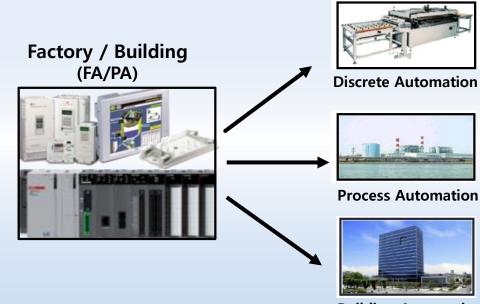
Leading Provider of Total Electric Power, Automation & Green Business Solutions



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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

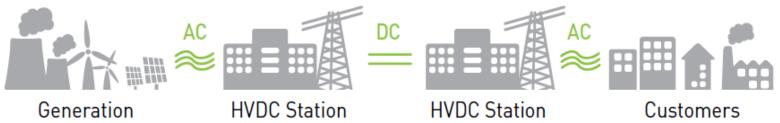
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HVDC

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

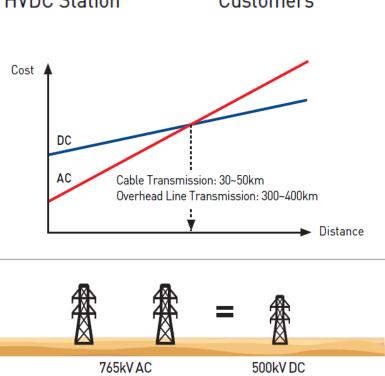
HVDC is the only option for the overhead transmission longer than 300km or submarine/underground 40km thanks to DC characteristics.

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

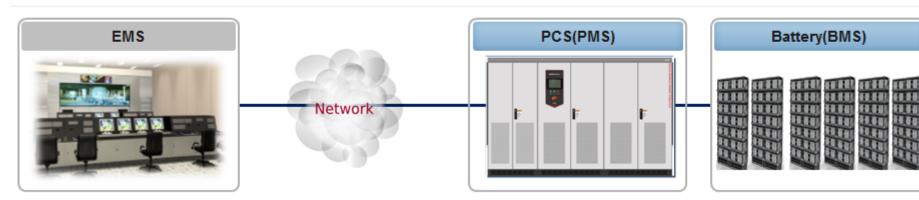
HVDC can directly interconnect load centers with huge energy sources efficiently. Therefore, negative impact on the grid is minimized. HVDC also improves the performance of AC grid by means of additional controllability.



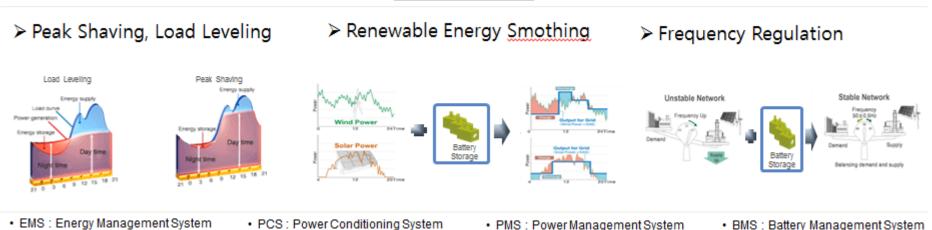


ESS Applications

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

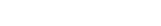


Function of ESS



Concept of ESS

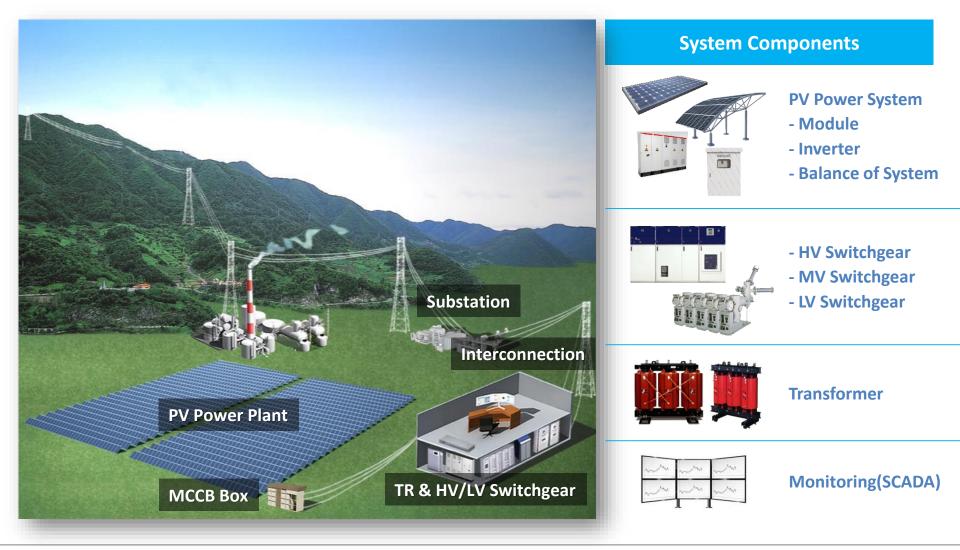
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PV Power Plant

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.



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Income statement

2Q 2018	1Q 2019	2Q 2019	YoY	QoQ
661	519	581	△12.1%	12.0%
△529	∆421	∆464	△12.3%	10.3%
132	98	117	△11.3%	19.5%
(20.0%)	(18.9%)	(20.1%)	-	-
△67	∆69	∆73	10.4%	6.2%
65	29	43	∆33.4%	51.7%
(9.9%)	(5.5%)	(7.5%)	-	-
9	7	∆5	∆37.4%	△178.0%
57	36	38	∆32.8%	6.8%
40	26	26	∆35.4%	△1.6%
(6.1%)	(5.1%)	(4.5%)	-	-
12.1%	9.6%	9.9%	-	-
	661 △529 132 (20.0%) △67 65 (9.9%) △9 57 40 (6.1%)	661 519 △529 △421 132 98 (20.0%) (18.9%) △67 △69 65 29 (9.9%) (5.5%) △9 7 57 36 40 26 (6.1%) (5.1%)	661 519 581 $\Delta 529$ $\Delta 421$ $\Delta 464$ 132 98 117 (20.0%) (18.9%) (20.1%) $\Delta 67$ $\Delta 69$ $\Delta 73$ 65 29 43 (9.9%) (5.5%) (7.5%) $\Delta 9$ 7 $\Delta 5$ 57 36 38 40 26 26 (6.1%) (5.1%) (4.5%)	661 519 581 △12.1% △529 △421 △464 △12.3% 132 98 117 △11.3% (20.0%) (18.9%) (20.1%) - △67 △69 △73 10.4% 65 29 43 △33.4% (9.9%) (5.5%) (7.5%) - △9 7 △5 △37.4% 57 36 38 △32.8% 40 26 26 △35.4% (6.1%) (5.1%) (4.5%) -

(unit : bwn, %)

Statement of Financial position

(unit : bwn, %)

Segment	2Q 2018	1Q 2019	2Q 2019	QoQ	YoY
Total Assets	2,361	2,397	2,407	2%	0%
Current Assets	1,542	1,504	1,497	∆3%	∆0%
Cash&Cash Equivalents	359	402	414	15%	3%
Inventories	176	199	188	6%	∆6%
Other Current Assets	1,006	903	895	∆11%	∆1%
Non-Current Assets	819	893	909	11%	2%
Tangible Assets	571	552	548	∆4%	∆1%
Intangible Assets	118	127	125	6%	∆1%
Other Non-Current Assets	130	214	236	81%	10%
Total Liabilities	1,161	1,103	1,088	∆ 6%	∆ 1%
Current Liabilities	698	674	752	8%	12%
Short-term borrowings	146	208	308	111%	48%
Non-Current Liabilities	463	429	336	∆27%	∆22%
Long-term borrowings	449	399	299	∆33%	△25%
Equity	1,200	1,294	1,318	10%	2%
Current Ratio	221%	223%	199%	△10%	△11%
Equity/Total Assets	51%	54%	55%	8%	2%
Total Liabilities/Equity	97%	85%	83%	△15%	∆3%
Net debts Ratio	20%	16%	15%	△25%	∆8%

Statements of Cash Flows

(unit : bwn)

Segment	'18.2Q	'19.2Q	YoY
Cash and cash equivalents at the beginning of year	262	456	194
Cash Flows From Operating Activities	97	75	△22
Cash Flows From Investing Activities	96	∆73	△169
Сарех	∆24	∆34	△11
R&D	∆5	∆4	1
Others	125	∆34	△159
Cash Flows From Financing Activities	∆99	∆44	55
Effect of exchange rate changes on cash and cash equivalents	3	0	∆3
Cash and cash equivalents	359	414	55

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(unit : bwn)

	C C					16					17					18				Y-o-Y				
	Segme	nt		1Q	2Q	3Q	4Q	Total	1Q	2Q	ЗQ	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	Total	(4Q)		
			Domestic	95	101	102	101	399	115	111	109	100	435	111	107	106	95	419	109	103	212	∆4%		
	Electric	Sales	Overseas	61	62	55	57	235	59	61	56	55	230	52	56	50	57	215	52	68	120	22%		
	Equipment		Total	157	163	157	157	634	173	172	165	155	665	163	163	156	152	634	161	171	332	5%		
		Opera	ting Profit	36	36	37	33	142	40	36	37	26	139	34	32	30	25	121	31	35	66	9%		
					Domestic	64	82	105	141	392	90	106	131	120	447	134	115	107	161	516	90	115	205	1%
	Electric	Sales	Overseas	36	33	20	46	134	41	40	38	55	174	30	44	23	37	134	30	39	69	△11%		
	Infra		Total	100	114	125	187	526	130	147	169	175	621	164	159	130	198	650	120	154	274	∆3%		
		Opera	ting Profit	⊿5	0	⊿7	8	∆4	0	2	13	14	29	14	10	4	17	45	1	0	1	∆99%		
	Automation		Domestic	46	48	47	45	186	48	49	51	44	193	54	56	48	49	207	44	47	91	△17%		
HQ		Sales	Overseas	26	23	19	20	88	24	24	26	20	94	26	21	21	18	86	21	21	42	∆3%		
ΠQ	Automation		Total	72	71	66	65	274	72	73	77	64	287	80	78	69	67	293	65	68	132	△13%		
		Opera	ting Profit	9	6	6	6	27	8	10	12	6	36	11	12	9	9	40	5	6	11	∆48%		
			Domestic	38	46	30	56	171	26	36	31	52	145	32	90	68	56	246	25	24	48	∆74%		
	Convergence	Sales	Overseas	17	17	31	42	107	23	26	24	15	89	16	27	23	16	82	16	16	31	∆42%		
	Business		Total	56	63	61	98	278	48	63	55	68	234	48	117	91	72	328	40	39	79	△67%		
		Opera	ting Profit	⊿10	⊿15	△11	∆31	△67	⊿14	riangle 9	∆8	∆28	△60	∆8	1	$\triangle 3$	∆21	⊿31	⊿9	⊿5	△13	∆414%		
			Domestic	244	277	284	343	1,148	278	303	322	317	1,220	330	369	328	360	1,388	267	289	556	∆22%		
	Subtotal	Sales	Overseas	141	134	125	164	564	146	151	145	145	587	124	148	117	128	518	118	144	262	∆3%		
	Subiotal		Total	385	411	409	507	1,712	425	454	467	461	1,807	455	517	445	489	1,905	386	432	818	△16%		
		Opera	ting Profit	29	27	25	16	97	34	38	53	18	143	50	55	39	30	175	28	36	65	∆35%		

Subsidiaries

(unit : bwn)

	C					16					17					18				19	Y-0-Y	
	Segme	nt		1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	Total	(4Q)
			Domestic	25	28	33	40	126	34	37	41	43	156	39	41	33	40	153	43	43	86	4%
	LS	Sales	Overseas	45	36	29	37	147	49	39	37	43	167	48	38	38	46	169	31	38	69	0%
	Metal		Total	70	64	62	77	273	83	76	79	85	323	87	79	71	85	322	75	81	156	2%
		Operating Profit		1	1	riangle 1	∆0	0	0	⊿0	arrow 1	1	ightarrow 0		⊿0	1	1	2	⊿2	2	riangle 0	783%
	Subsidiaries	aries Sales		10	11	13	25	58	16	22	19	16	72	15	15	17	13	59	10	15	25	∆0%
Subsidi	(Korea)	Opera	ting Profit	ightarrow 0	riangle 0	1	2	2	1	3	2	1	7	2	2	1	riangle 0	4	arrow 1	arrow 1	⊿2	△155%
aries	Subsidiaries		Sales	49	53	42	44	188	39	45	38	48	170	39	82	63	41	225	57	61	118	△26%
	(China)	Opera	ting Profit	5	5	4	2	16	1	3	0	3	6	1	10	8	⊿2	16	5	9	14	△12%
	Subsidiaries		Sales	0	0	0	0	0	0	0	0	0	0	4	6	6	13	29	6	10	16	77%
	(Vietnam)	Opera	ting Profit	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	121%
	Subtotal	5	Sales	129	128	117	146	519	138	143	135	149	565	145	182	156	152	636	147	167	314	∆8%
		Opera	ting Profit	5	5	4	4	18	2	6	1	4	13	3	12	10	riangle 1	23	3	10	12	△16%

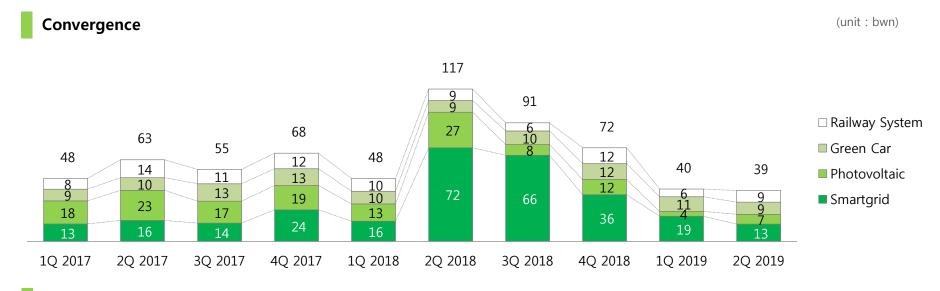
Consolidated

(unit : bwn)

Cogment			16					17					18			19	Y-o-Y		
Segment	1Q	2Q	ЗQ	4Q	Total	1Q	2Q	ЗQ	4Q	Total	1Q	2Q	ЗQ	4Q	Total	1Q	2Q	Total	(4Q)
Consolidation adjustment for Sales	△12	⊿14	⊿2	10	△18	∆3	arrow 9	△11	⊿5	∆29	∆8	∆39	1	△10	⊿56	∆14	<i>∆18</i>	∆33	53%
Consolidation adjustment for OP	0	0	1	8	9	0	riangle 0	1	1	3	2	⊿2	4	3	7	⊿2	⊿3	⊿5	∆36%
Total Sales	501	525	524	663	2,214	559	588	591	605	2,344	<i>592</i>	661	602	630	2,485	519	581	1,099	∆12%
Total Operating Profit	35	32	30	28	124	36	44	55	23	158	55	65	53	32	205	29	43	72	∆33%

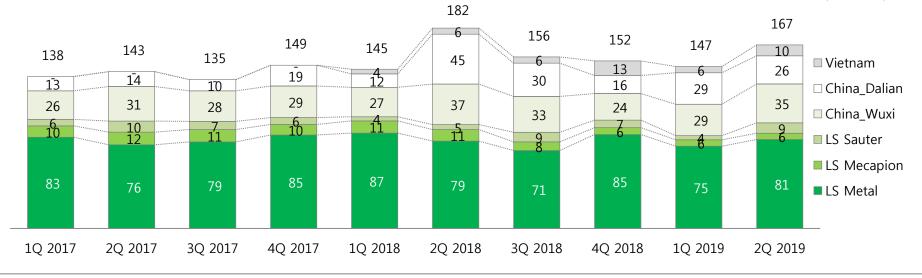


Appendix 3. Sales details for Convergence & Subsidiaries



Subsidiaries

(unit : bwn)



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