

# 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

# **3Q 2020 Total Results**

**Income Statement** 

Sales 559bwn (YoY 10bwn increased), Operating Profit 22bwn (YoY 31bwn decreased) Sales and Operating profit decrease by Electric Equipment, Electric Infra Segment

				(U	ınit : bwn)								
Segment	3Q 2019	2Q 2020	3Q 2020	YoY	QoQ								
Sales	548	598	559	10	∆40								
Operating Profit	53	39	22	∆31	△17								
Profit before tax	52	32	29	∆23	∆3								
Net income	38	24	19	△19	∆5								



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.





# **3Q 2020 Financial Position**

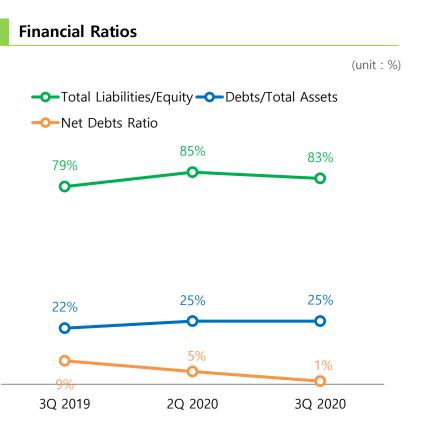
Total assets 2,549bwn (YoY 114bwn increased)

Total Liabilities/Equity Ratios 83%, Debts/Total Assets Ratios 25% (stable financial structure)

(unit : bwn)

#### **Financial Statement**

				(	
Segment	3Q 2019	2Q 2020	3Q 2020	YoY	QoQ
Total Assets	2,436	2,550	2,549	114	∆1
Current Assets	1,543	1,677	1,673	130	∆4
Cash & cash equivalent	421	575	629	208	53
Total Liabilities	1,077	1,172	1,153	76	△19
Debts	548	645	646	98	1
Net Debts	127	70	17	△110	△52
Equity	1,358	1,378	1,396	38	18



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# **Business Results & Outlook**

Electric Equipment – Sales decreased in Overseas mkt (South East Asia)

Electric Infra – Sales decreased due to Oversea mkt (Major Company)

#### **Electric Equipment**





- Sales decreased YoY 10%, OP decreased YoY 45%
- Sales decreased Overseas mkt
- OP decreased due to Sales decreased and Currency effect
- Sales recovered in Global mkt (4th Quarter)
  - Boosted sales in Vietnam mkt

- Sales decreased YoY 13%, OP decreased YoY 488%
- Oversea sales decreased in Major Company
- Expecting Investment in Data Center business/Battery



# **Business Results & Outlook**

Automation – Sales increased in Domestic mkt (Machinery mkt )

Renewable - Sales increased in Smart-Grid(ESS)/Solar Profit increased

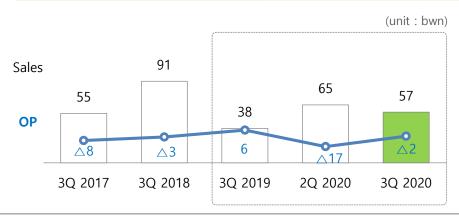
#### Automation



### Sales increased YoY 7%, OP decreased YoY 9%

- Sales increase in Domestic mkt (Machinery)
- Sales decreased in Overseas
- Sales Boost in New mkt(Semiconductor/Car)

#### Renewable Business



- Sales increased YoY 48%, OP decreased YoY 135%
- Sales increased Smart-Grid (ESS)
- Profit increased by EV
- Sales Boost in Solar/EV components Business

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# **Business Results & Outlook**

LS Metal – Sales/Profit increased by Stainless steel (LNG vessel)

#### **Subsidiaries**



- Sales increased YoY 4%, OP increased YoY 92%
  - LS Metals sales/profit increased by STS
  - Sales recovered in China business
- 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









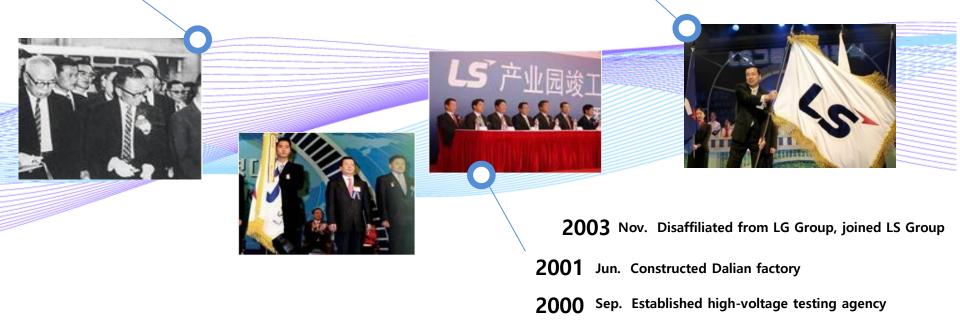
## 1. A History of Challenging the Future (1970's ~ 2007)

**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. LS Metal spun off from LSIS and newly established LS Metal
- 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 40<sup>th</sup> 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





## 3. Challenging for the future of Smart Energy (2016~)

2016

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

Sep. Selected as the best business in automobiles in terms 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.

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Feb. Named one of the world's top 100 businesses in patent 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 2018

2019

innovative businesses. Apr. Finished the work for the construction of

MW ESS-linked PV plant at the Hwamyeong Water Treatment Plant in Busan.

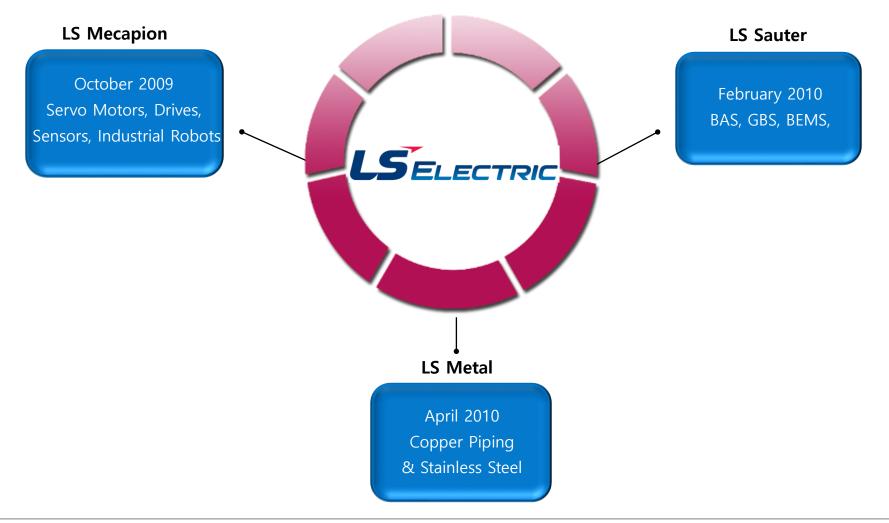
Dec. Acquires ESS Unit of North America's ESS Leader Parker-Hannifin

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

Jun. Finished the work for the construction of 18MW Megasolar plant in Hanamizuki, Japan.



## Strengthening the Business Portfolio through M&As

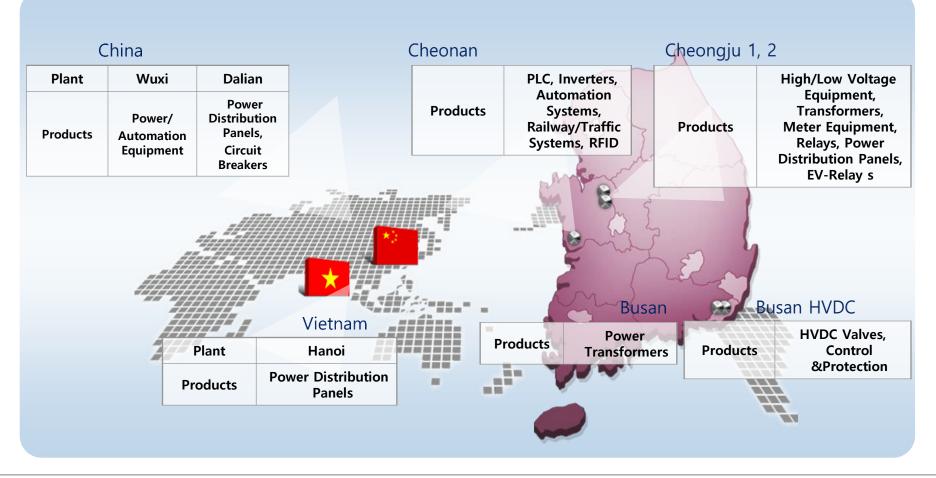




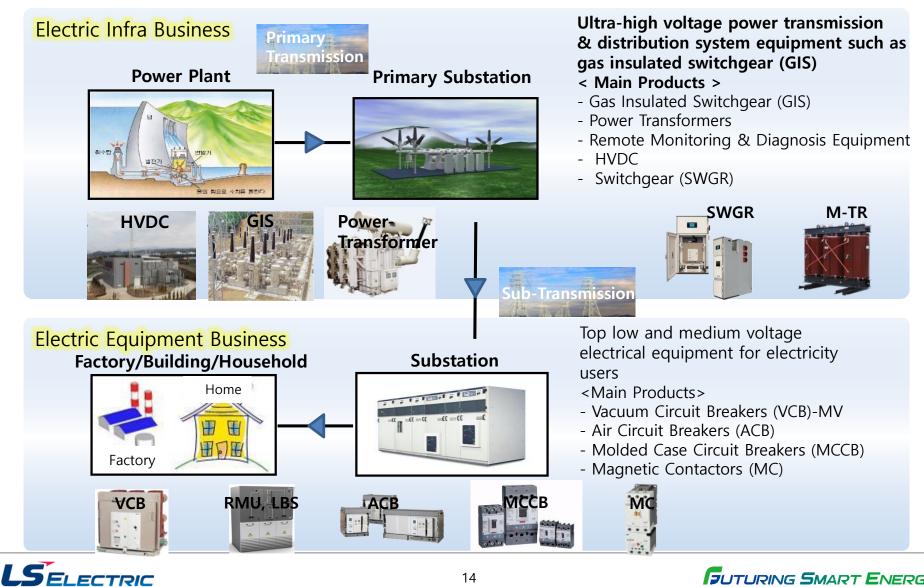
# **Company Introduction**

## We manufacture high-quality products in nine plants around the world

- Domestic: 5 Plants (Cheongju 1 & 2, Cheonan, Busan, Busan HVDC)
- Overseas: 3 Plants (China: Dalian, Wuxi / Vietnam: Hanoi)



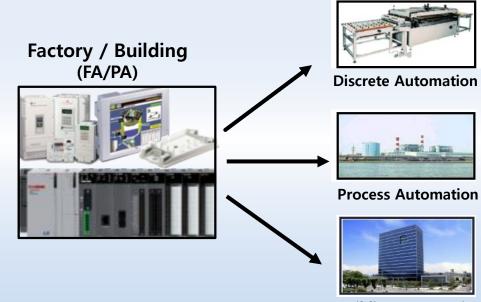
## Leading Provider of Total Electric Power, Automation & Green Business Solutions



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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)

## Renewable Business



**Smart Grid** 



**Green Car Solution** 



**Photovoltaic System** 



Railway System

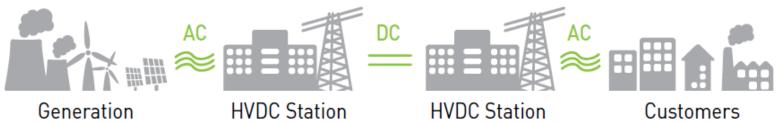




# HVDC

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.

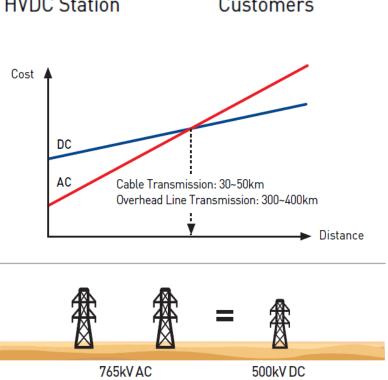
## **Eco-friendly Transmission**

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**

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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.

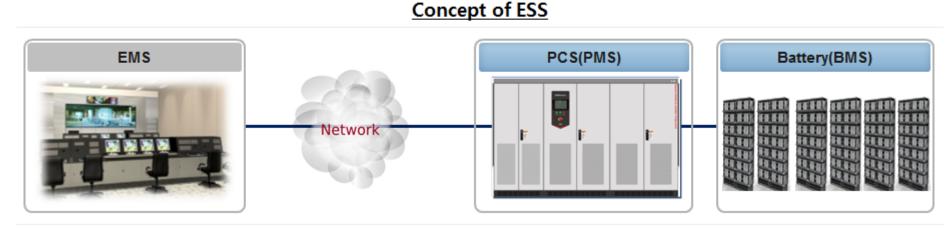




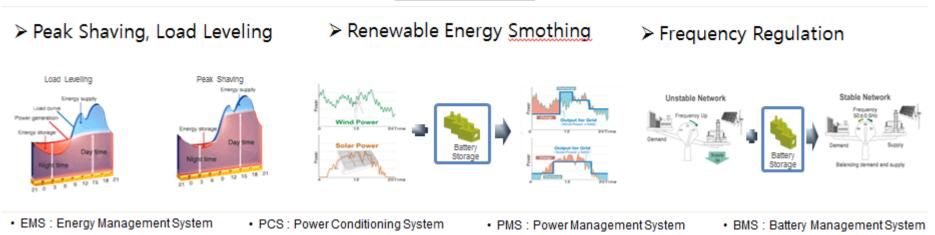


# **ESS Applications**

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



Function of ESS



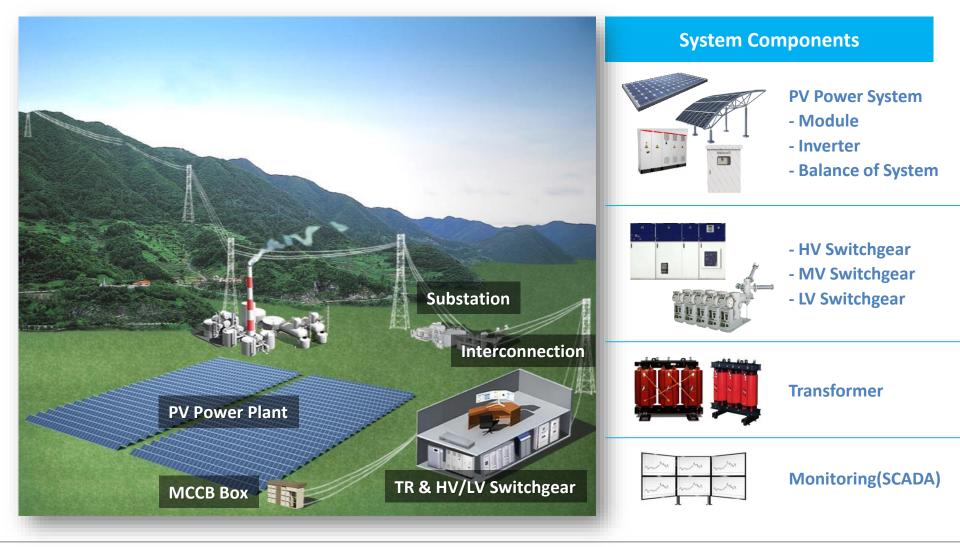
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# **PV Power Plant**

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 LS ELECTRIC.



## LSELECTRIC



#### **Income statement**

3Q 2019	2Q 2020	3Q 2020	YoY	QoQ
548	598	559	1.9%	△6.6%
∆430	∆488	∆459	6.8%	△5.9%
118	110	99	∆16.1%	∆9.7%
(21.6%)	(18.4%)	(17.8%)	-	-
△65	∆71	∆77	18.8%	8.8%
53	39	22	△59.0%	∆43.8%
(9.7%)	(6.5%)	(3.9%)	-	-
∆2	∆7	7	△552.0%	△198.5%
52	32	29	∆44.0%	△8.7%
38	24	19	△50.4%	△20.7%
(6.9%)	(4.0%)	(3.4%)	-	-
12.8%	9.6%	8.8%	-	-
	548 △430 118 (21.6%) △65 53 (9.7%) △2 52 38 (6.9%)	548 598   △430 △488   118 110   (21.6%) (18.4%)   △65 △71   53 39   (9.7%) (6.5%)   △2 △7   52 32   38 24   (6.9%) (4.0%)	548 598 559   △430 △488 △459   118 110 99   (21.6%) (18.4%) (17.8%)   △65 △71 △77   53 39 22   (9.7%) (6.5%) (3.9%)   △52 △7 7   53 32 29   38 24 19   (6.9%) (4.0%) (3.4%)	548 598 559 1.9%   △430 △488 △459 6.8%   118 110 99 △16.1%   (21.6%) (18.4%) (17.8%) -   △65 △71 △77 18.8%   53 39 22 △59.0%   (9.7%) (6.5%) (3.9%) -   △22 △7 7 △552.0%   53 32 29 △44.0%   38 24 19 △50.4%   (6.9%) (4.0%) (3.4%) -

#### (unit : bwn, %)

#### **Statement of Financial position**

(unit : bwn, %)

Segment	3Q 2019	2Q 2020	3Q 2020	QoQ	YoY
Total Assets	2,436	2,550	2,549	5%	∆ <b>0%</b>
Current Assets	1,543	1,677	1,673	8%	∆0%
Cash&Cash Equivalents	421	575	629	50%	9%
Inventories	206	187	182	∆12%	∆3%
Other Current Assets	917	915	862	∆6%	∆6%
Non-Current Assets	893	873	876	∆2%	0%
Tangible Assets	553	553	554	0%	0%
Intangible Assets	125	109	106	∆15%	∆3%
Other Non-Current Assets	214	211	216	1%	3%
Total Liabilities	1,077	1,172	1,153	7%	<b>∆2%</b>
Current Liabilities	738	591	617	∆16%	4%
Short-term borrowings	249	96	147	∆41%	53%
Non-Current Liabilities	340	581	537	58%	∆8%
Long-term borrowings	299	549	499	67%	∆9%
Equity	1,358	1,378	1,396	3%	1%
Current Ratio	209%	284%	271%	30%	∆4%
Equity/Total Assets	56%	54%	55%	∆2%	1%
Total Liabilities/Equity	79%	85%	83%	4%	∆3%
Net debts Ratio	9%	5%	1%	∆87%	∆76%

#### **Statements of Cash Flows**

Segment	'19.3Q	'20.3Q	YoY
Cash and cash equivalents at the beginning of year	456	535	79
Cash Flows From Operating Activities	173	174	1
Cash Flows From Investing Activities	∆105	∆76	28
Capex	∆51	△55	∆3
R&D	∆7	∆3	3
Others	∆47	∆19	28
Cash Flows From Financing Activities	∆ <b>104</b>	∆2	102
Effect of exchange rate changes on cash and cash equivalents	1	∆1	∆2
Cash and cash equivalents	421	629	208

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						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	Total	(3Q)
			Domestic	115	111	109	100	435	111	107	106	95	419	109	103	105	102	418	108	107	103	318	∆1%
	Electric	Sales	Overseas	59	61	56	55	230	52	56	50	57	215	52	68	64	60	244	60	61	49	171	∆23%
	Equipment		Total	173	172	165	155	665	163	163	156	152	634	161	171	169	161	662	169	168	152	489	△10%
		Opera	ting Profit	40	36	37	26	139	34	32	30	25	121	31	35	34	24	125	32	31	19	82	∆45%
			Domestic	90	106	131	120	447	134	115	107	161	516	90	115	113	169	487	118	134	110	361	∆3%
	Electric	Sales	Overseas	41	40	38	55	174	30	44	23	37	134	30	39	35	32	136	40	33	19	92	∆46%
	Infra		Total	130	147	169	175	621	164	159	130	198	650	120	154	148	201	623	158	167	128	453	∆13%
		Opera	ting Profit	0	2	13	14	29	14	10	4	17	45	1	0	⊿1	14	13	5	8	⊿8	6	∆488%
			Domestic	48	49	51	44	193	54	56	48	49	207	44	47	47	51	188	49	52	55	155	16%
HQ	Automation	Sales	Overseas	24	24	26	20	94	26	21	21	18	86	21	21	19	20	81	22	18	16	56	△17%
	Automation		Total	72	73	77	64	287	80	78	69	67	293	65	68	66	70	269	71	70	71	211	7%
		Opera	ting Profit	8	10	12	6	36	11	12	9	9	40	5	6	7	5	23	6	7	6	20	∆9%
			Domestic	26	36	31	52	145	32	90	68	56	246	25	24	33	118	199	101	68	42	211	29%
	Convergence	Sales	Overseas	23	26	24	15	89	16	27	23	16	82	16	16	5	21	57	12	∆3	14	23	164%
	Business		Total	48	63	55	68	234	48	117	91	72	328	40	39	38	139	256	113	65	57	234	48%
		Opera	ting Profit	⊿14	arrow 9	∆8	∆28	⊿60	∆8	1	$\triangle 3$	∆21	⊿31	⊿9	⊿5	6	0	⊿6	∆3	⊿17	∆2	∆22	△135%
			Domestic	278	303	322	317	1,220	330	369	328	360	1,388	267	289	298	439	1,293	376	360	310	1,046	4%
	Subtotal	Sales	Overseas	146	151	145	145	587	124	148	117	128	518	118	144	123	132	517	134	109	98	341	∆21%
	Subtotal		Total	425	454	467	461	1,807	455	517	445	489	1,905	386	432	421	571	1,810	510	469	408	1,387	∆3%
			ting Profit	34	38	53	18	143	50	55	39	30	175	28	36	46	44	155	41	30	15	85	△68%

# Appendix 2. Results for the past 4 years

### Subsidiaries

(unit : bwn)

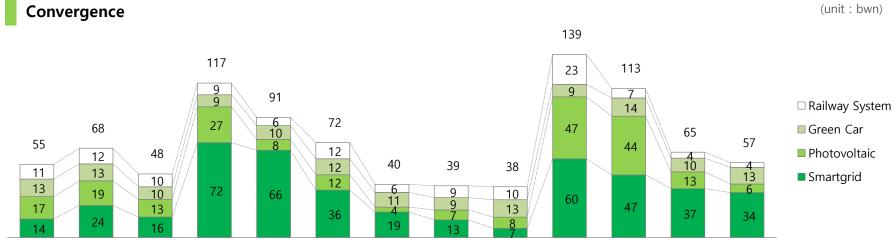
	Segme	nt				17					18					19				Y-o-Y			
	segme	m		1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	Total	(3Q)
			Domestic	34	37	41	43	156	39	41	33	40	153	43	43	42	45	174	37	40	44	121	4%
	LS	Sales	Overseas	49	39	37	43	167	48	38	38	46	169	31	38	25	29	123	46	40	37	124	48%
	Metal		Total	83	76	79	85	323	87	79	71	85	322	75	81	68	74	297	83	80	82	244	21%
		Opera	ting Profit	0		⊿1	1	ightarrow 0			1	1	2	⊿2	2	⊿0	1	1	0	2	0	3	146%
	Subsidiaries	S	Sales	16	22	19	16	72	15	15	17	13	59	10	15	9	13	46	16	18	14	47	62%
Subsidi	(Korea)	Opera	ting Profit	1	3	2	1	7	2	2	1		4		⊿1	⊿1	⊿1	⊿4	0	1	1	3	181%
aries	Subsidiaries	S	Sales	39	45	38	48	170	39	82	63	41	225	57	61	57	44	220	34	44	42	120	∆27%
	(China)	Opera	ting Profit	1	3	0	3	6	1	10	8	∆2	16	5	9	5	1	20	1	4	5	11	∆0%
	Subsidiaries	S	Sales	0	0	0	0	0	4	6	6	13	29	6	10	5	10	30	4	7	8	19	48%
	(Vietnam)	Opera	ting Profit	0	0	0	0	0	0	0	0	1	1	0	0	⊿1	0	1	⊿1	0	0		159%
	Subtotal	S	Sales	138	143	135	149	565	145	182	156	152	636	147	167	139	141	594	137	149	145	430	4%
	SubiOlai	Opera	ting Profit	2	6	1	4	13	3	12	10		23	3	10	3	1	17	1	8	7	16	92%

#### Consolidated

Segment	17						18				19						Y-o-Y			
Segment	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	Total	(3Q)
Consolidation adjustment for Sales	∆3	⊿9	⊿11	⊿5	∆29	∆8	∆39	1	⊿10	∆56	⊿14	⊿18	⊿11	△13	∆57	⊿11	∆20	6	∆25	149%
Consolidation adjustment for OP	0	⊿0	1	1	3	2	∆2	4	3	7	⊿2	∆3	3	⊿1	$\triangle 3$	⊿2	1	0	⊿0	∆93%
Total Sales	559	588	591	605	2,344	592	661	602	630	2,485	519	581	548	699	2,347	636	598	559	1,792	2%
Total Operating Profit	36	44	55	23	158	55	65	53	32	205	29	43	53	43	169	40	39	22	101	△59%



# **Appendix 3. Sales details for Convergence & Subsidiaries**



3Q 2017 4Q 2017 1Q 2018 2Q 2018 3Q 2018 4Q 2018 1Q 2019 2Q 2019 3Q 2019 4Q 2019 1Q 2020 2Q 2020 3Q 2020

**Subsidiaries** 

