JUTURING SMART ENERGY

3Q16 Review & Outlook



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.

Total Results

3Q '16 Total Results

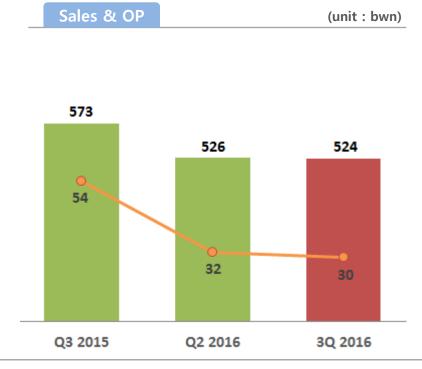
♦ Sales

Y-o-Y 48.9bwn decreased(\triangle 8.5%), Q-o-Q 1.6bwn decreased(\triangle 0.3%)

♦ Operating Profit

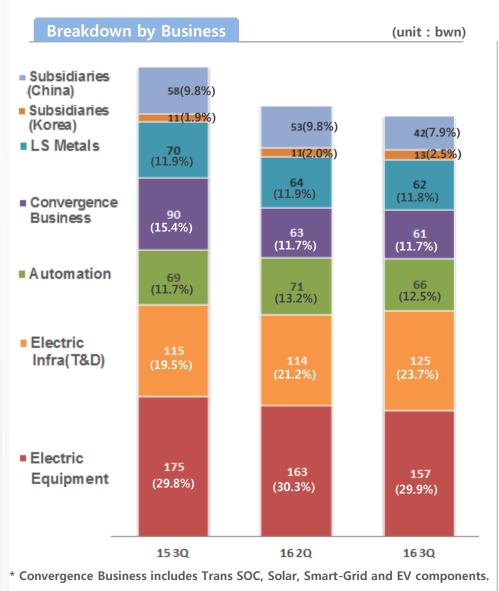
Y-o-Y 24.1bwn decreased(\triangle 44.5%), Q-o-Q 1.8bwn decreased(\triangle 5.6%)

Income Sta	tement			(uı	nit : bwn)
Segment	Q3 2015	Q2 2016	Q3 2016	Y-o-Y	Q-o-Q
Sales	573	526	524	△8.5%	△0.3%
Operating profit	54	32	30	△44.5%	△5.6%
Profit before tax	35	26	28	△19.6%	8.4%
Net income	15	20	22	49.7%	7.4%





3Q '16 Sales Breakdown



* Sales of subsidiaries are before the consolidated adjustments.

♦ Headquarters

- Electric Equipment : Volume decreased due to economic struggle, but improving profitability by high-end market
- Electric Infra: Domestic volume is improving, but business risk is expanding in oversea market due to weak economic condition
- Automation: Volume decreased due to weak global economy, but continuing performance creation to high-end market
- Convergence: Weak performance due to lack of back-log from Express railway PJT, and supply limit to poor solar customers

Subsidiaries

- Wuxi : Volume decreased due to weak solar market
- Dalian : Volume from PJT by Korean Co. increased
- LS Metals : Profitability is improving due to production innovation activities

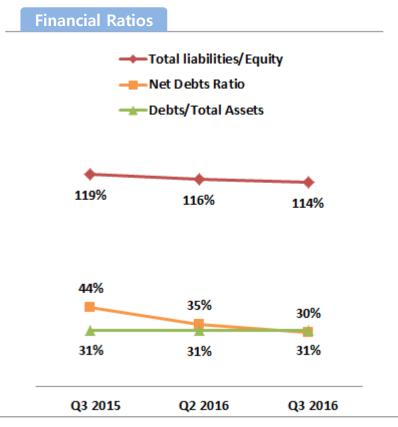


3Q '16 Financial Position

- ◆ Total assets 2,222bwn (Y-o-Y 15.8bwn increased, Q-o-Q 21.5bwn increased)

 Total liabilities 1,185bwn (Y-o-Y 12.8bwn decreased, Q-o-Q 5.3bwn increased)
- **♦** Total liabilities/Equity posted 114%, net Debts ratio dropped 14%p(Y-o-Y, 44%→30%)

Finacial Sta	tement			(ι	ınit : bwn)
Segment	Q3 2015	Q2 2016	Q3 2016	Y-o-Y	Q-o-Q
Total Assets	2,206	2,200	2,222	1%	1%
Current Assets	1,329	1,356	1,388	4%	2%
Cash & cash equivalent	244	330	381	56%	16%
Total Liabilities	1,198	1,180	1,185	△1%	0%
Debts	691	686	695	1%	1%
Net Debts	447	356	314	△30%	△12%
Equity	1,008	1,020	1,037	3%	2%



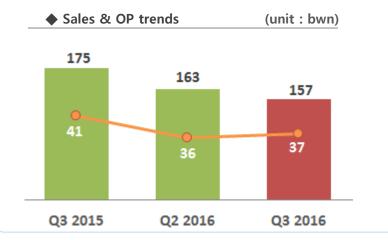


Business Results & Outlook

Electric Equipment

3Q '16 Results

- ♦ Sales Y-o-Y 10.1% decreased, Q-o-Q 3.7% decreased
- ♦ OP Y-o-Y 10.7% decreased, Q-o-Q 2.8% increased
- Volume decreased due to economic struggle, but improved profitability by high-end market
- Despite unfavorable demand from emerging market, Vietnam market improved



4Q '16 & '17 Outlook

[Market]

- Sustained favorable demand in renewable energy market
- Due to global economic recession, risk exists on volume decrease
- Favorable demand in Retrofit market

- Demand response in renewable energy market
 (Developing large capacity DC product)
- Entering High-end & SOC Market in SEAsia
- Entering new market(housing) & expanding package business in domestic

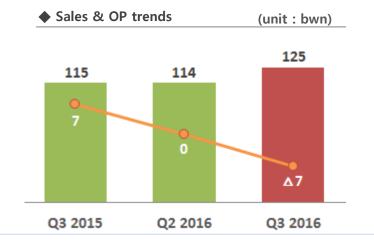




Electric Infra(T&D)

3Q '16 Results

- ◆ Sales Y-o-Y 8.9% increased, Q-o-Q 9.3% increased
- ◆ OP Y-o-Y, Q-o-Q turned into loss-making
- Domestic improved with eliminating effect of bidding restriction
- Weak profitability due to PJT delay by continuous weak oil price and IS Crisis in Iraq



4Q '16 & '17 Outlook

[Market]

- Infrastructure investment decrease due to economic recession
- Funding increase for investment in SWAsia in the field of Electric power infrastructure
- Expansion transformers investment in domestic due to demand increase in renewable energy

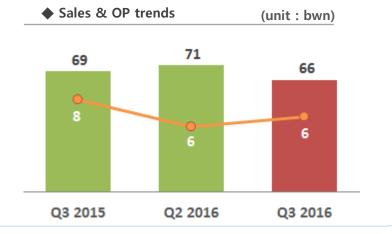
- Domestic performance improve by favorable demand
- New PJT's from Bangladesh & Egypt
- HVDC revenue recognition & prepare for new HVDC PJT
- Secure new EPC clients & associate participation



Automation

3Q '16 Results

- ♦ Sales Y-o-Y 4.5% decreased, Q-o-Q 7.2% decreased
- ◆ OP Y-o-Y 18.2% decreased, Q-o-Q 14.5% increased
- Volume decreased due to economic recession
- Continuous performance improvement from conglomerate market



4Q '16 & '17 Outlook

[Market]

- Capex decrease by economic recession
- Smart factory market expansion by government policy

- Strengthen direct sales activities to conglomerates
- Expand Smart factory business in earnest with LSIS's own solution
- Oversea performance improve through
 Vietnam and India market
 (strengthening dealer network)

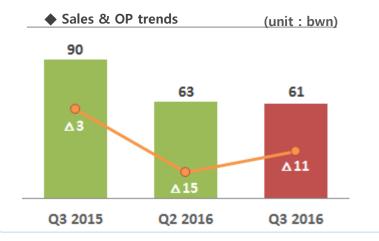




Convergence Business

3Q '16 Results

- ♦ Sales Y-o-Y 32.0% decreased, Q-o-Q 2.5% decreased
- ♦ OP Y-o-Y, Q-o-Q continuous loss
 - Trans S.O.C performance decreased by product mix
 - Weak performance in Solar business due to supply limit to poor solar customers



4Q '16 & '17 Outlook

[Market]

- Continuous policy driving on ESS in domestic
 (New guidance for using ESS as an emergency electric power source, Introduction private rate on ESS users, Allowed power broker business etc)
- Global Market expansion in photovoltaic market (12GW of PV will be invested in SEAsia by '25)

- Participate profitable EPC PJT
- Expand floating PV business with LSIS's solution
- Entering Indonesia, Thailand, Vietnam smartenergy market
- Improve business performance in railway system in oversea market

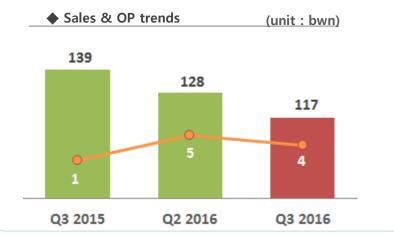




Subsidiaries

3Q '16 Results

- ♦ Sales Y-o-Y 15.8% decreased, Q-o-Q 8.7% decreased
- ◆ OP Y-o-Y 200% increased, Q-o-Q 32.1% decreased
- Volume decreased due to weak solar market
- LS Metals Profitability is improving due to production innovation activities



4Q '16 & '17 Outlook

[Market]

- Extension of competition with global players in Chinese renewable energy market
- Energy infrastructure PJT profitability decrease due to oil price drop

- Development enlargement in large capacity product for renewable energy market
- Expand wind power and EV components market
- Ultra high voltage PJT performance improve by associating with Chinese local company
- LS Metals profitability continue to improve



Appendix 1-1) Income Statement

(unit: bwn)

Segment	'15.3Q	'16.2Q	'16.3Q	QoQ	YoY
Sales	573	526	524	4.9%	△4.8%
Costs of Sales	△452	△415	△430	4.0%	△6.0%
Gross Profit	121	110	94	8.8%	0.1%
(%)	(21.1%)	(21.0%)	(18.0%)	-	-
SG&A	△67	△78	△64	17.7%	13.1%
Operating Profit	54	32	30	△8.6%	△22.0%
(%)	(9.5%)	(6.1%)	(5.7%)	-	-
Non-OP and Loss	△19	△6	△2	△52.5%	1,350.0%
Profit befroe tax	35	26	28	15.0%	△35.4%
Net Income	15	20	22	17.4%	△26.5%
(%)	(2.5%)	(3.8%)	(4.1%)	-	-
EBITDA Margin	11.2%	10.1%	10.3%	-	-



Appendix 1-2) Statement of Financial position

	(u	nit	:	bwn)
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Segment		'15.3Q	'16.2Q	'16.3Q	QoQ	YoY
Total A	Assets	2,206	2,200	2,222	△2%	△0%
Cı	urrent Assets	1,329	1,356	1,388	△4%	3%
	Cash&Cash Equivalents	244	330	381	△14%	6%
	Inventories	167	166	166	△2%	△2%
	Other Current Assets	917	860	841	1%	2%
N	on-Current Assets	877	844	833	△0%	△4%
	Tangible Assets	662	624	615	△1%	△6 %
Intangible Assets Other Non-Current Assets		139	132	131	△2%	△5%
		76	87	87	11%	17%
Total Liabilities		1,198	1,180	1,185	△6 %	△3%
Cı	urrent Liabilities	664	669	570	1%	16%
	Short-term borrowings	62	53	48	8%	118%
Non-Current Liabilities		534	511	615	△13%	△20 %
	Long-term borrowings	467	468	566	△15%	△20%
Equity	1	1,008	1,020	1,037	2%	3%
Cı	urrent Ratio	200%	203%	244%	41%p	43%p
Ec	quity/Total Assets	46%	46%	47%	0%р	1%p
To	otal Liabilities/Equity	119%	116%	114%	△1%p	△5% p
N	et debts Ratio	28%	19%	22%	4%p	△ 6 %p



Appendix 1-3) Statements of Cash Flows

(unit: bwn)

				1 1
Segment		'15.3Q	'16.3Q	YoY
Cash and cash equivalents at the beginning of year		332	286	△46
Cash Flows From Operating Activities		90	245	156
	Cash Flows From Investing Activities	△77	△77	0
Capex R&D		△52	△31	21
		△11	△9	1
	Others	△15	△37	△22
Cash Flows From Financing Activities		△101	△72	29
Effect of exchange rate changes on cash and cash equivalents		0	△1	△1
Cash and cash equivalents at the end of 3rd quarter		244	381	137



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



Management Philosophy





LS is a faithful and reliable business partner

Collaboration with LS people leads to greater success





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

Founded	1974
Sales	2,202billion(KRW)
Employees	3,500
Headquarters	LS Tower, Gyeonggi-do, Korea
Plants	Total 7 Plants
Overseas subsidiaries	China, Vietnam, Japan, etc.
Overseas branches	USA, Europe, Russia, Vietnam, etc.
(4. (4.24.7)	



(As of 2015)



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









2003 Nov. Disaffiliated from LG Group, joined LS Group

2001 Jun. Constructed Dalian factory

2000 Sep. Established high-voltage testing agency

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)

2008 Apr. Relocated its headquarters to Anyang LS Tower

Sep. Received the Korea Best Company Award (Electricity & Cable industry category)

Oct. LS Industrial Systems(currently LSIS)

Opened R&D Center in Shanghai, China

2012 May. completed a EV Relay factory in Cheongju, Korea

Jun. Awarded the Best Korean Company Grand Award

Dec. Selected as one of the Top 100 Global Innovators

by Thompson Reuters

Dec. US and Chinese patent acquired for smart meter technology

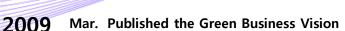


2011 Oct. Completed the Busan HVDC Plant

Nov. Included in the Fortune Korea's 500 Fastest Growing Companies

Nov. Selected as one of the Top 100 Global Innovators

by Thompson Reuters



Oct. Share in Mecapion acquired

Oct. European sales corporation established





2010 Jan. LS Power Semithech J/V established

Feb. LS Sauter established

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 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





We guarantee all our customers a safe and affluent life and a happy future by supplying them with convenient smart energy.

Mission



Vision 2020



Strategy

- **Boosting Our Market Position as a Power Solutions Provider**
- Leading New Markets through Convergence and Combination
- Expansion of Global Markets
- Securing Operational Excellence

Core Value







Collaboration

Execution

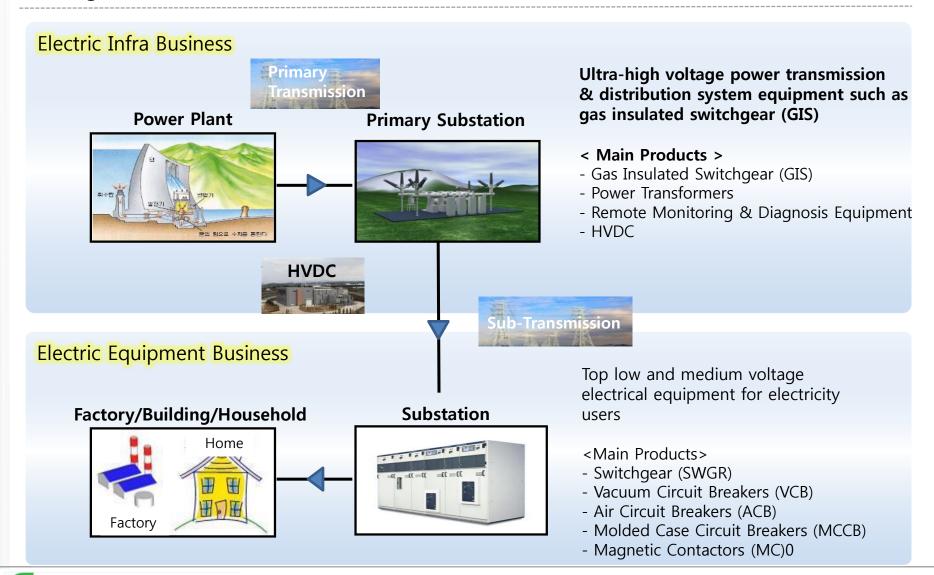
Creativity

Integrity



Appendix 3) Business Introduction

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

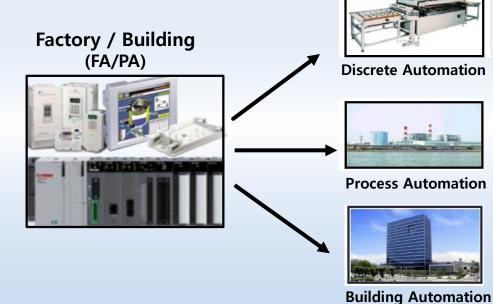






Appendix 3) Business Introduction

Automation Business



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

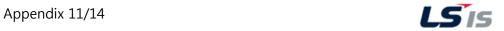


Photovoltaic System



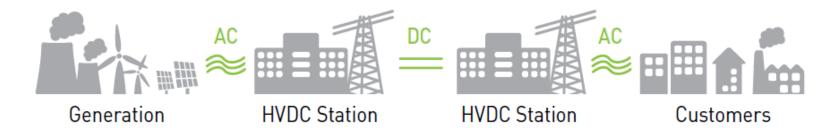
Railway System





Appendix 4) 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

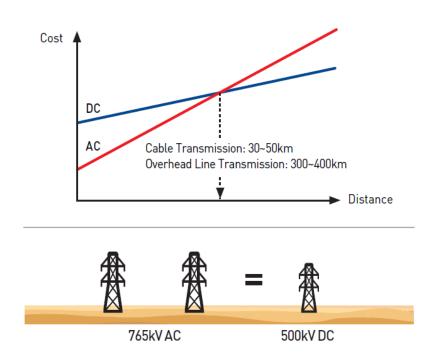
HVDC is the only option for the overhead transmission longer than 300km or submarine/underground 40km thanks to DC characteristics.

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.

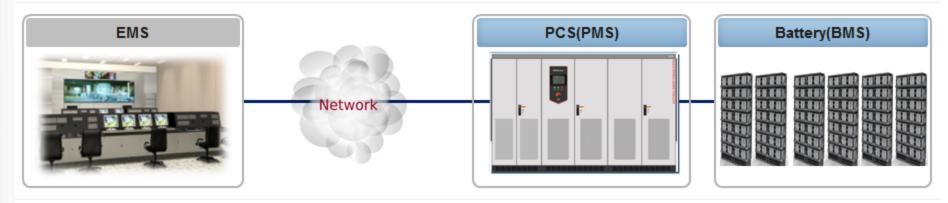




Appendix 5) ESS Applications

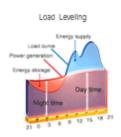
ESS(Energy Storage System) includes PCS(Power Conversion System) and battery, and make an efficient way of use electricity power

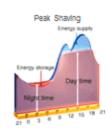
Concept of ESS



Function of ESS

- > Peak Shaving, Load Leveling
- > Renewable Energy Smothing
- > Frequency Regulation









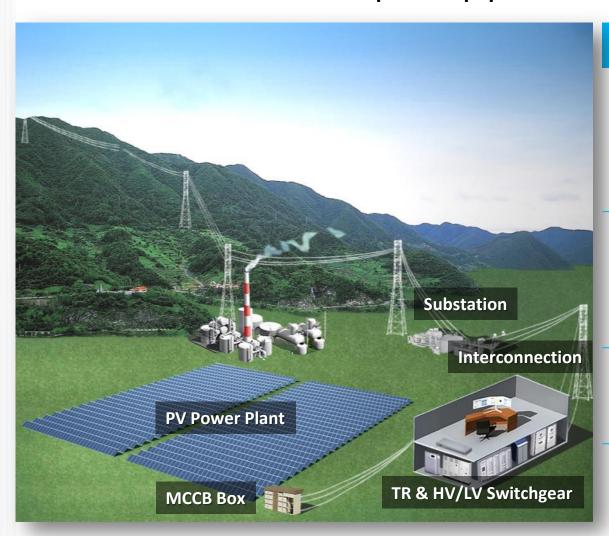
- · EMS: Energy Management System
- · PCS: Power Conditioning System
- · PMS: Power Management System
- · BMS: Battery Management System





Appendix 6) 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.



System Components



PV Power System

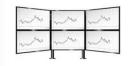
- Module
- Inverter
- Balance of System



- HV Switchgear
- MV Switchgear
- LV Switchgear



Transformer



Monitoring(SCADA)



