Solution Partner

4Q 2017 Business Results & Outlook

January 31, 2018



Disclaimer

The business results for the fourth quarter of 2017 currently under audit review are presented here for investors' convenience. Hence, please be advised that some of their contents may be altered in the course of audit.

The business results are subject to the K-IFRS(Korea International Financial Reporting Standards).

Forecasts and projections contained in this material are based on current business environments and management's strategies, and they may differ from the actual results upon changes and unaccounted variables.



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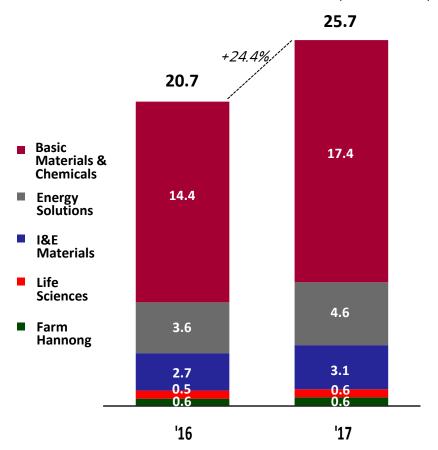
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2017 Business Results

Sales

(Unit: KRW tn)



Operating Profit

Classification	'16	'17	YoY(%)
LG Chem	1,992 (9.6)	2,929 (11.4)	+47.0%
Basic Materials & Chemicals	2,139 (14.8)	2,808 (16.1)	+31.3%
Energy Solutions	-49 (-1.4)	29 (0.6)	T/B
I&E Materials	-55 (-2.1)	112 (3.6)	T/B
Life Sciences	47 (8.9)	54 (9.7)	+13.4%
Farm Hannong	-15 (-2.6)	36 (5.9)	T/B

Classification	4Q '16	3Q ′17	4Q '17	YoY	QoQ
Sales	5,512	6,397	6,432	16.7%	0.5%
Operating Profit	462	790	615	22.20/	22.40/
(%)	(8.4)	(12.3)	(9.6)	33.2%	-22.1%
EBITDA	805	1,137	972	20.89/	14.50/
(%)	(14.6)	(17.8)	(15.1)	20.8%	-14.5%
Pre-tax Income	358	703	434	21.1%	-38.3%
(%)	(6.5)	(11.0)	(6.7)	21.1%	-36.3%
Net Income	270	546	338	25.2%	-38.0%
(%)	(4.9)	(8.5)	(5.3)	23.270	-30.0/0

^{*} Business performances of Farm Hannong and Life Sciences have been included since '16.2Q and '17.1Q, respectively.

4Q 2017 Business Results

Financial Position

(Unit: KRW bn)

			Jine. Kitty Dilj
Classification	'16 (End)	'17 (End)	Change
Asset	20,487	25,041	22.2%
Cash and equivalents	2,207	2,779	25.9%
Liabilities	6,436	8,703	35.2%
Borrowings	2,891	3,045	5.3%
Shareholder's Equity	14,051	16,339	16.3%
Liabilities/ Equity	45.8	53.3	7.5%p

Financial Ratios

Classification	'16 (End)	'17 (End)	Change	
Borrowings / Equity (%)	20.6	18.6	-2.0%p	
Net borrowings/ Equity (%)	4.9	1.6	-3.3%p	
Interest Coverage Ratio (x)	25.9	29.3	3.4	
ROE (%)	9.4	13.3	3.9%p	
ROA (%)	6.6	8.9	2.3%p	

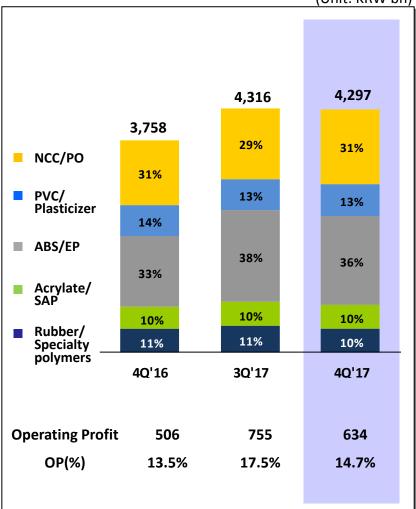
Divisional Results & Outlook

Basic Materials & Chemicals

Divisional Results







Analysis

 Despite the impact of strong KRW and increase in maintenance expenses, historical high 4Q results were achieved on the back of solid performance from NCC and ABS, etc.

-NCC/PO : Profitability remained solid on the back of strong prices

led by demand from new downstream plants' operation

-PVC/ : Profit decreased on softening product margin due to the

Plasticizer weak seasonality at year end

-ABS/EP : Solid earnings continued thanks to robust sales

driven by demand for home appliances in China

-Acrylate/: Profitability declined QoQ on the back of the weak

SAP demand at year end

-Rubber/ : Earnings decreased QoQ due to the selling price cut on

Specialty Polymers quarterly contracts of synthetic rubber

Outlook

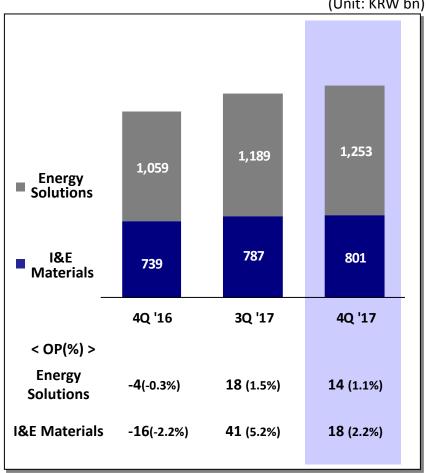
 Despite remaining impact of strong KRW in 1Q, profitability will be higher than previous quarter's level on the back of solid downstream demand

Divisional Results & Outlook

Divisional Results

Analysis & Outlook





Analysis

: Quarterly sales recorded historical high and positive Energy Solutions operating income continued thanks to the brisk sales of EVs as well as ESS sales growth

• I&E : Profitability declined due to the ASP cut and strong KRW **Materials**

Outlook

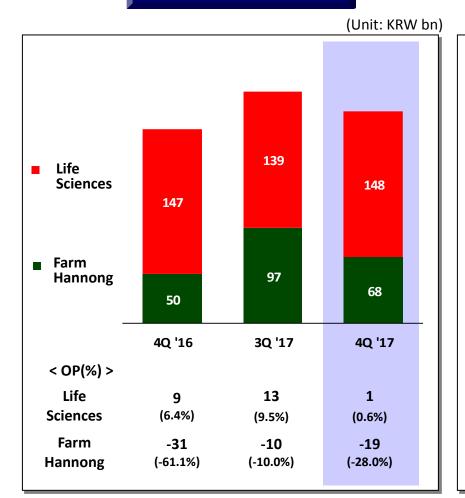
• Energy : Despite continuing growth of EV sales in 1Q, weak **Solutions** seasonality of mobile/ESS batteries and fixed cost increase in the initial stage of new plant operation in Poland will be a burden on profitability

 I&E : Declined profitability is expected on the back of strong KRW Materials in 1Q, weak seasonality, and slowdown in front line industry

Divisional Results & Outlook

Divisional Results

Analysis & Outlook



Analysis

- Life : Declined profitability due to strong KRW, increased
 Sciences marketing expenses for new products as well as R&D expenses for new drug development
- Farm : Although earnings decreased QoQ due to the weak seasonality of agrochemical business, profitability improved YoY thanks to the cost reduction, etc.

Outlook

- Life : Growth of major products including 'YVOIRE', 'Zemiglo'
 Sciences will continue while sales of vaccine will decline in 1Q
- Farm : Both sales and profitability will improve sharply in 1Q thanks to the seasonality of strong 1H and weak 2H

Business Plan

(Unit: KRW/tn)

_			\	Unit: KRW th)
	Classification	'17	'18 Plan	Change
	Sales	25.7	26.9	+4.7%
	Basic Materials & Chemicals	17.4	16.8	-3.6%
	Energy Solutions	4.6	6.1	+34.2%
	I&E Materials	3.1	3.4	+9.4%
	Life Sciences ¹⁾	0.6	0.6	+8.8%
	Farm Hannong ²⁾	0.6	0.7	+14.3%
(Operating Profits	2.9	N/A	N/A

CAPEX Plan

(Unit: KRW tn)

Classification	on	'17	'18 Plan	Change
LG Chem		2.5	3.8	+52%
New/Expan	sion	1.2	2.2	+85%
Maintenar	nce	0.9	1.2	+30%
R&D		0.4	0.4	+2%

Basic
Materials &
Chemicals

Expansion of Investment in specialty items and their feedstock

'17 '18 0.7 1.3

Energy Solution Preparation for mass production of awarded projects and laying the groundwork for core competency

1.0

Investment in mobile and **ESS** batteries

> 0.4 0.7

Others



1.5

Appendix

Divisional Sales & Operating Profit

Classification			2016					2017		
Classification	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total
Sales	4,874	5,219	5,054	5,512	20,659	6,487	6,382	6,397	6,432	25,69
Operating Profit	458	612	460	462	1,992	797	727	790	615	2,92
(%)	9.4%	11.7%	9.1%	8.4%	9.6%	12.3%	11.4%	12.3%	9.6%	11.4
EBITDA	780	946	796	805	3,327	1,151	1,074	1,137	972	4,33
(%)	16.0%	18.1%	15.8%	14.6%	16.0%	17.8%	16.8%	17.8%	15.1%	16.9
asic Materials & Chemicals	3,512	3,653	3,525	3,758	14,447	4,495	4,319	4,316	4,297	17,42
NCC / PO	1,156	1,221	1,131	1,161	4,669	1,362	1,291	1,246	1,323	5,22
PVC / Plasticizer	489	508	496	542	2,035	588	572	560	568	2,28
ABS	877	920	866	948	3,611	1,216	1,185	1,261	1,214	4,8
EP	298	299	304	308	1,210	332	307	357	347	1,3
Acrylate / SAP	345	331	357	391	1,424	435	427	425	420	1,7
Rubber / Specialty Polymer	347	374	370	408	1,499	563	537	467	424	1,9
Operating Profit	466	649	517	506	2,139	734	686	755	634	2,80
(%)	13.3%	17.8%	14.7%	13.5%	14.8%	16.3%	15.9%	17.5%	14.7%	16.1
Energy Solutions	814	809	879	1,059	3,562	999	1,120	1,189	1,253	4,5
Operating Profit	0	-31	-14	-4	-49	-10	8	18	14	
(%)	0.0%	-3.9%	-1.6%	-0.3%	-1.4%	-1.0%	0.7%	1.5%	1.1%	0.6
I&E Materials	627	650	641	739	2,656	726	747	787	801	3,0
Operating Profit	-8	-15	-16	-16	-55	29	23	41	18	1:
(%)	-1.3%	-2.2%	-2.5%	-2.2%	-2.1%	4.0%	3.1%	5.2%	2.2%	3.6
Life Sciences	120	131	135	147	532	129	135	139	148	5
Operating Profit	17	11	10	9	47	21	19	13	1	
(%)	14.3%	8.1%	7.5%	6.4%	8.9%	15.9%	14.0%	9.5%	0.6%	9.7
Farm Hannong	242	189	87	50	568	254	186	97	68	6
Operating Profit	39	-2	-20	-31	-15	50	14	-10	-19	
(%)	15.9%	-1.2%	-23.3%	-61.1%	-2.6%	19.8%	7.3%	-10.1%	28.0%	5.9
(Excluding One-off expenses)	49	20	-14	-25	29	50	14	-10	-19	

^{*} Business performances of Farm Hannong and Life Sciences have been included since 2Q16 and 1Q17, respectively.



Borrowings

(Unit: KRW bn)

	(0	TIIL . KKW DII)	
Classification	'16 (End)	'17 (End)	
Total (Overseas Subsidiaries)	2,891 (1,892)	3,045 (1,686)	
KRW Currency	521 18%	1,326 44%	
C P	270	1,247	
Others	252	79	
Foreign Currency	2,369 82%	1,719 56%	
Short-term (Overseas Subsidiaries)	2,213 (1,284) 77%	1,451 (1,167) 48%	
Long-term (Overseas Subsidiaries)	678 (607) 23%	1,594 (519) 52%	
Cash	2,207	2,779	
Net borrowings	683	266	

^{*} Numbers in brackets are amounts for overseas subsidiaries and the % is calculated to total borrowings.

Cash Flow

	Classification	'16 (Acc.)	'17 (Acc.)
	Beginning Cash	2,694	2,207
Op	erating/Investing	524	1,337
	Operating profit	1,992	2,929
	Depreciation	1,335	1,406
	Working Capital	-52	-845
	Investing Activities	-1,993	-1,844*
	Others	-758	-309
Fir	nancing	-1,007	-737
	Borrowings (Financed & reimbursed)	-661	-351
	Dividends paid	-347	-386
	Ending Cash	2,207	2,779

^{*}Cash excluding accounts payable related to the investment activities (CAPEX in 2017 is KRW 2.5tn)



CAPEX

(Unit: KRW bn)

	IIL. KKW DII)			
Clas	Classification		'16 (Acc.)	'17 (Acc.)
Basic	New / Expansion	328	103	324
Materials &	Maintenance	385	289	345
Chemicals	Total	713	392	669
Energy	New / Expansion	265	365	691
Solutions	Maintenance	189	197	259
Joidtions	Total	454	563	950
1 & E	New / Expansion	219	291	120
Materials	Maintenance	141	95	101
Waterials	Total	360	386	221
Life	New / Expansion	60	124	81
Sciences	Maintenance	19	38	25
Sciences	Total	79	162	106
Common	New / Expansion	133	555	395
(including	Maintenance	63	82	200
Farm Hannong)	Total	196	637	595
	New / Expansion	945	1,314	1,612
Total	Maintenance	778	663	928
	Total	1,723	1,977	2,540

^{*} Business performances of Farm Hannong and Life Sciences have been included since 2Q16 and 1Q17, respectively.

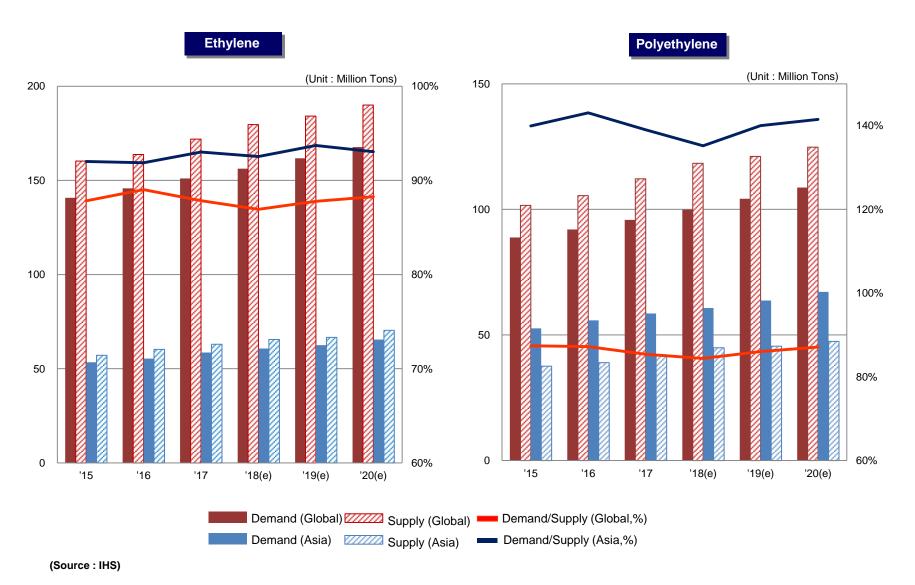
R&D expenses

	(Unit: KRW bn)		
Classification	'15 (Acc.)	'16 (Acc.)	'17 (Acc.)
Basic Materials & Chemicals	132	150	164
(% of sales)	(0.9%)	(1.0%)	(0.9%)
Energy	229	276	299
Solutions (% of sales)	(7.3%)	(7.7%)	(6.2%)
I & E	146	161	181
Materials (% of sales)	(5.3%)	(6.1%)	(5.9%)
Life	79	91	96
Sciences (% of sales)	(17.5%)	(17.1%)	(17.5%)
Common (including Farm Hannong)	49	91	152
Total	557	678	892
(% of sales)	(2.8%)	(3.3%)	(3.5%)

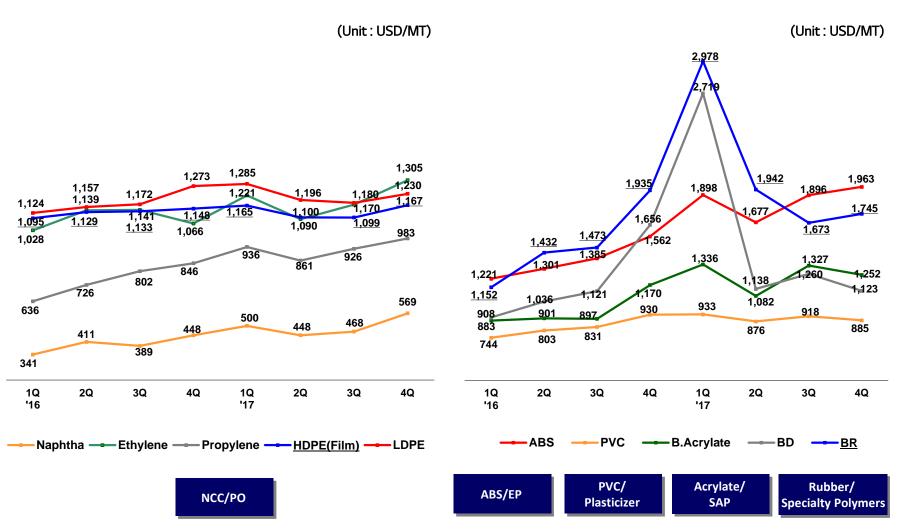
^{*} In 2017, more than 50% of Energy solutions R&D expenses were used for EV battery accumulatively



Ethylene/PE Demand & Supply



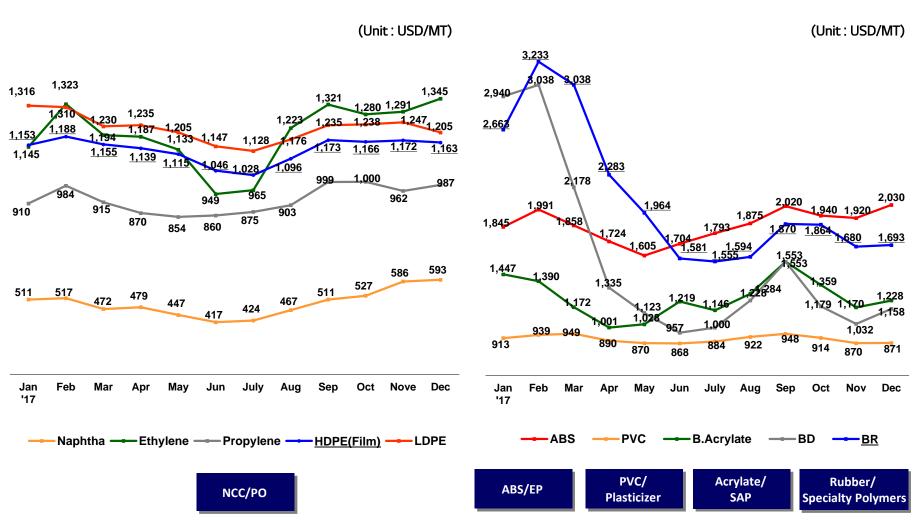




• The prices are average price of CFR FE Asia for general grade in each product group.

Monthly Price Trends

Appendix



• The prices are average price of CFR FE Asia for general grade in each product group.