Solution**Partner**

1Q 2017 Business Results & Outlook

May, 2017



The business results for the first 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 <u>they may</u> <u>differ from the actual results upon changes and unaccounted variables.</u>

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(Unit: KRW bn)

Classification	'16.1Q	'16.4Q	'17.1Q	ΥοΥ	QoQ
Sales	4,874	5,512	6,487	33.1%	17.7%
Operating Profit	458	462	797	74 10/	72 60/
(%)	(9.4)	(8.4)	(12.3)	74.1%	72.6%
EBITDA	780	805	1,151	47.7%	43.0%
(%)	(16.0)	(14.6)	(17.8)	47.770	43.076
Pre-tax Income	423	358	698	65.0%	95.0%
(%)	(8.7)	(6.5)	(10.8)	05.070	55.070
Net Income	338	270	548	62.1%	103.0%
(%)	(6.9)	(4.9)	(8.4)	02.170	103.070

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

Financial Position

'16 '17.1Q Classification Change (End) (End) 20,487 22,171 Asset 8.2% Cash and 2,207 1,909 -13.5% equivalents 6,436 7,265 Liabilities 12.9% 2,891 3,147 Borrowings 8.9% Shareholder's 14,051 14,906 6.1% Equity Liabilities/ 45.8 48.7 *2.9%p Equity

(Unit: KRW bn)

Financial Ratios

Classification	'16 (End)	'17.1Q (End)	Change
Borrowings / Equity (%)	20.6	21.1	0.5%p
Net borrowings/ Equity (%)	4.9	8.3	3.4%p
Interest Coverage Ratio (x)	25.9	29.4	3.5
ROE (%)	9.4	15.1	5.7%p
ROA (%)	6.6	10.3	3.7%p

* Liabilities/Equity ratio excluding Life Sciences is 44.9%

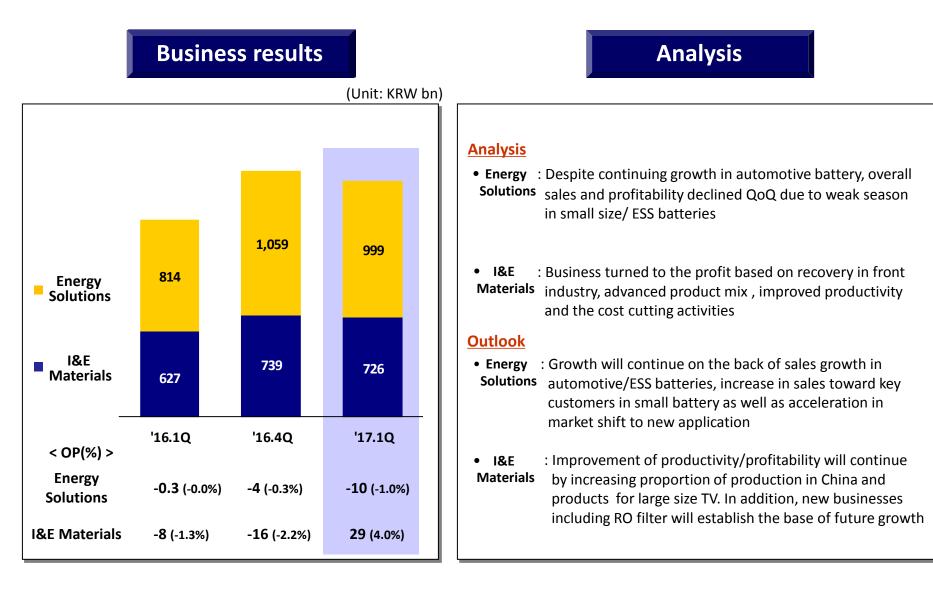
Incremental Liabilities/Equity ratio of 3.8%p is the impact from Life Sciences merger

Divisional Results & Outlook

Basic Materials & Chemicals

	Busine	ss results	(Unit: KRW b	Analysis
			4,495	Analysis • Quarterly earnings recorded historical high on the back of restocking demand due to rise in oil prices, improved product spreads led by tight supply/demand as well as solid performance in China -NCC/PO : Profitability improved significantly by tight supply and
NCC/PO	3,512 33%	3,758 31%	30%	 -ABS/EP : Solid results were generated based on increase in pre-stocking demand due to rise in feedstock prices (SM, BD and others) and favorable business condition in China
ABS/EP	33%	33%	34%	-PVC/ : Similar profitability level maintained quarter on quarter Plasticizer as the PVC price stayed at the elevated level after the rise in coal price in China
 PVC/ Plasticizer Acrylate/ SAP 	14% 10%	14% 10%	13% 10%	-Acrylate/: Profitability improved thanks to the ASP increase SAP pushed by strong feedstock prices
Rubber/ Specialty polymers	10% '16.1Q	11% '16.4Q	13% '17.1Q	-Rubber/ : Profitability of synthetic rubber declined on the back Specialty of short-term feedstock (BD) price spike (One quarter of Polymers lagging for the cost reflection in the ASP)
Operating Profit OP(%)	466 13.3	506 13.5	734 16.3	 Outlook A trend of solid earnings will continue by sales increase of premium product while product spreads are expected to squeeze on the back of temporary wait-and-see stance of purchase due to the expectation of weak oil prices in 2Q







	Busine	ess results		Analysis
			(Unit: KRW	bn)
Life	120		129	Analysis• Life Sciences: Profitability improved significantly thanks to sales growth of major products(Yvoire, Zemiglo and others) and delay in execution of expenses due to the re-checking for R&D strategies
Sciences				Farm : Earnings improved by peak season, reduction of Hannong one-off costs and product mix improvement
Farm Hannong	242	147 50	254	Outlook • Life : Sales growth of major products including 'Yvoire' and Sciences 'Zemiglo' will continue and profitability will stay at decent previous year level despite the likelihood of changes in
< OP(%) >	'16.1Q	'16.4Q	'17.1Q	profitability depending on the results of review on mid-to-long term strategies and resource input plan
Life Sciences	17 (14.3%)	9 (6.4%)	21 (15.9%)	• Farm : Despite the seasonality of strong 1H and weak 2H Hannong in the year, profitability improvement is expected through
Farm Hannong	39 (15.9%)	- 31 (-61.1%)	50 (19.8%)	sales growth in fertilizer, concentration on seeding market and new product launch in crop protection



Appendix

Divisional Sales & Operating Profit

									(1	Unit: KRW bn)
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				6,487
Operating Profit	458	612	460	462	1,992	797				797
(%)	9.4%	11.7%	9.1%	8.4%	9.6%	12.3%				12.3%
EBITDA	778	949	796	804	3,327	1,151				1,151
(%)	16.0%	18.2%	15.8%	14.6%	16.0%	17.8%				17.8%
Basic Materials & Chemicals	3,512	3,653	3,525	3,758	14,447	4,495				4,495
NCC / PO	1,156	1,221	1,131	1,161	4,669	1,362				1,362
ABS	877	920	866	948	3,611	1,216				1,216
EP	298	299	304	308	1,210	332				332
PVC / Plasticizer	489	508	496	542	2,035	588				588
Acrylate / SAP	345	331	357	391	1,424	435				435
Rubber / Specialty Polymer	347	374	370	408	1,499	563				563
Operating Profit	466	649	517	506	2,139	734				734
(%)	13.3%	17.8%	14.7%	13.5%	14.8%	16.3%				16.3%
Energy Solutions	814	809	879	1,059	3,562	999				999
Operating Profit	0	-31	-14	-4	-49	-10				-10
(%)	0.0%	-3.9%	-1.6%	-0.3%	-1.4%	-1.0%				-1.0%
I&E Materials	627	650	641	739	2,656	726				726
Operating Profit	-8	-15	-16	-16	-55	29				29
(%)	-1.3%	-2.2%	-2.5%	-2.2%	-2.1%	4.0%				4.0%
Life Sciences	120	131	135	147	532	129				129
Operating Profit	17	11	10	9	47	21				21
(%)	14.3%	8.1%	7.5%	6.4%	8.9%	15.9%				15.9%
Farm Hannong	242	189	87	50	568	254				254
Operating Profit	39	-2	-20	-31	-15	50				50
(%)	15.9%	-1.2%	-23.3%	-61.1%	-2.6%	19.8%				19.8%
(Excluding One-off expenses)	49	20	-14	-25	29	50				50

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



Appendix

Borro						
 (Unit : KRW b						
Classification	'16 (End)	'17.1Q (End)				
Total (Overseas Subsidiaries)	2,891 (1,892) 100%	3,147 (1,859) 100%				
KRW Currency	521 18%	568 18%				
C P Others	270 252	449 119				
Foreign Currency	2,369 82%	2,579 82%				
Loan	1,921	1,908				
Negotiation Borrowings	449	670				
Short-term (Overseas Subsidiaries)	2,213 (1,284) 77%	2,175 (1,298) 69%				
Long-term (Overseas Subsidiaries)	678 (607) 23%	972 (560) 31%				

* The % is calculated to total borrowings.

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	Cash Flow							
	(Unit: KRW br Classification (16 (17.1Q							
	Beginning Cash	(Acc.) 2,694	(Acc.) 2,207					
Op	perating/Investing	524	0					
	Operating profit	1,992	797					
	Depreciation	1,335	355					
	Working Capital	-52	-462					
	Investing Activities	-1,993	-223					
	Others	-758	-466					
Fir	nancing	-1,007	-271					
	Borrowings (Financed & reimbursed)	-606	-267					
	Dividends paid	-347	-					
	Ending Cash	2,207	1,909					

Appendix

CAPEX & R&D expenses

		CAPEX		
			(Ui	nit: KRW bn)
Clas	sification	'15 (Acc.)	'16 (Acc.)	'17.1Q (Acc.)
Basic	New / Expansion	328	103	38
Materials &	Maintenance	385	289	50
Chemicals	Total	713	392	89
Energy	New / Expansion	265	365	63
Solutions	Maintenance	189	197	38
Solutions	Total	454	563	101
I & E	New / Expansion	219	291	17
Materials	Maintenance	141	95	18
	Total	360	386	36
Life	New / Expansion	60	124	16
Sciences	Maintenance	19	38	9
	Total	79	162	25
	New / Expansion	133	555	24
Common	Maintenance	63	82	16
	Total	196	637	39
	New / Expansion	945	1,314	159
Total	Maintenance	778	663	131
	Total	1,723	1,977	290

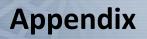
R&D expenses

(Unit: KRW bn)

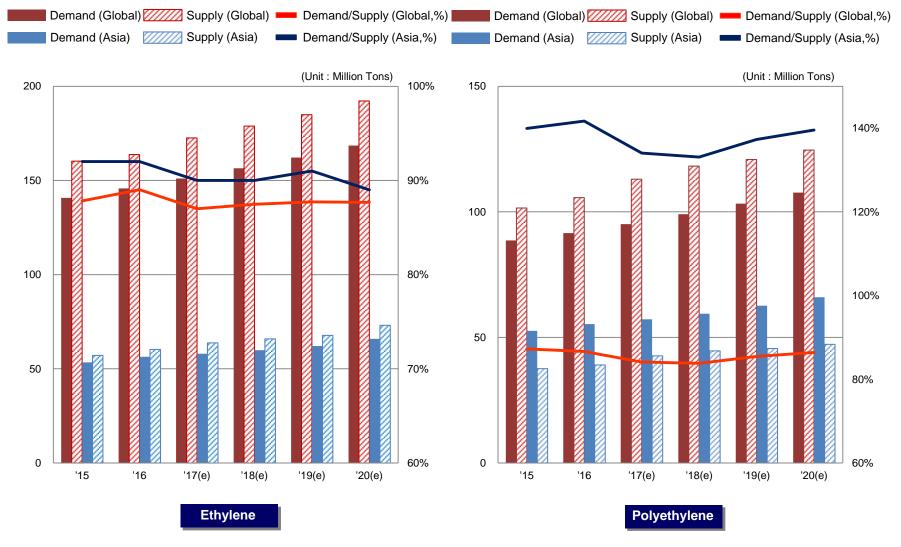
Classification	'15 (Acc.)	'16 (Acc.)	'17.1Q (Acc.)				
Basic Materials	132	150	40				
& Chemicals (% of sales)	(0.9%)	(1.0%)	(0.9%)				
Energy	244	276	78				
Solutions (% of sales)	(7.7%)	(7.7%)	(7.8%)				
I & E	146	161	44				
Materials (% of sales)	(5.3%)	(6.1%)	(6.1%)				
Life Sciences	79	91	20				
(% of sales)	(17.5%)	(17.1%)	(15.6%)				
Common	72	80	35				
Total	594	667	218				
(% of sales)	(2.9%)	(3.2%)	(3.4%)				

① All R&D costs are expensed in the respective period ② As of 1Q 2017, more than 50% of Energy solutions R&D expenses were used for EV battery accumulatively ③ Business performances of Life Sciences have been included since 1Q 2017





Ethylene/PE Supply & Demand

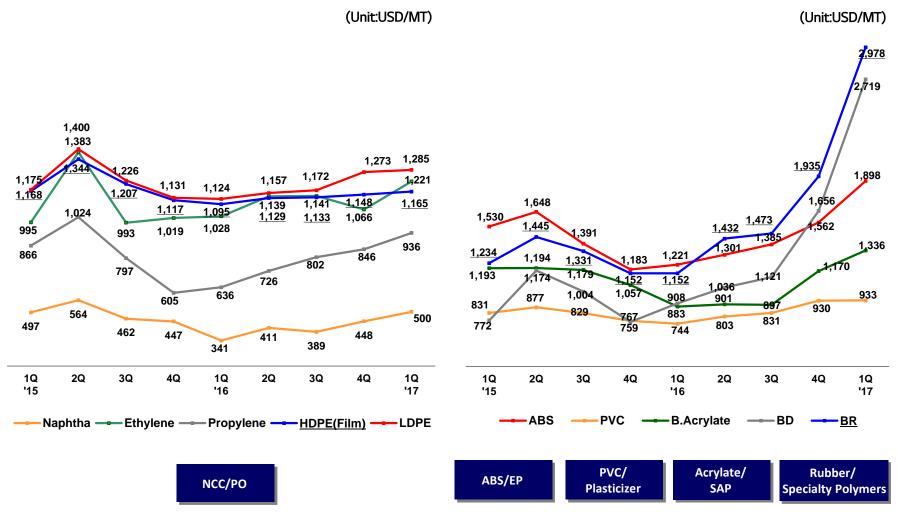


(Source : IHS)



Quarterly Price Trends

Appendix

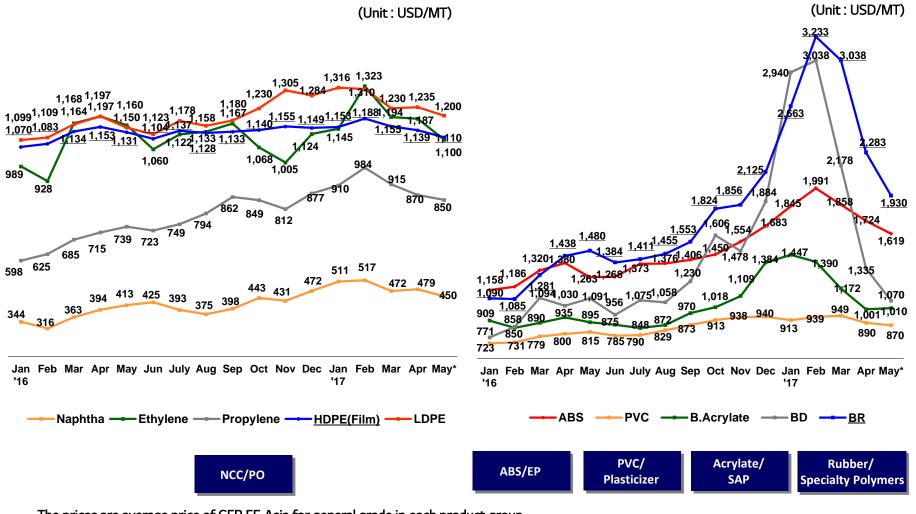


• The prices are average price of CFR FE Asia for general grade in each product group.



Monthly Price Trends

Appendix



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

* shows the prices on may 22, 2017

