# Solution Partner

# 1Q 2018 Business Results & Outlook

April 30, 2018



## Disclaimer

The business results for the first quarter of 2018 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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Classification	1Q ′17	4Q ′17	1Q'18	YoY	QoQ
Sales	6,487	6,432	6,554	1.0%	1.9%
<b>Operating Profit</b>	797	615	651	10 20/	F 00/
(%)	(12.3)	(9.6)	(9.9)	-18.3%	5.8%
EBITDA	1,151	972	1,006	-12.6%	3.5%
(%)	(17.8)	(15.1)	(15.3)	-12.0%	
Pre-tax Income	698	434	653	-6.5%	50.6%
(%)	(10.8)	(6.7)	(10.0)	-0.576	
Net Income	548	338	553	0.8%	63.5%
(%)	(8.4)	(5.3)	(8.4)	0.070	03.370

# **1Q 2018 Business Results**

## **Financial Position**

(Unit: KRW bn)

		•	
Classification	<b>'17</b> (End)	1Q'18 (End)	Change
Asset	25,041	26,416	5.5%
Cash and equivalents	2,779	3,132	12.7%
Liabilities	8,703	9,905	13.8%
Borrowings	3,045	4,236	39.1%
Shareholder's Equity	16,339	16,510	1.1%
Liabilities/ Equity	53.3	60.0	6.7%p

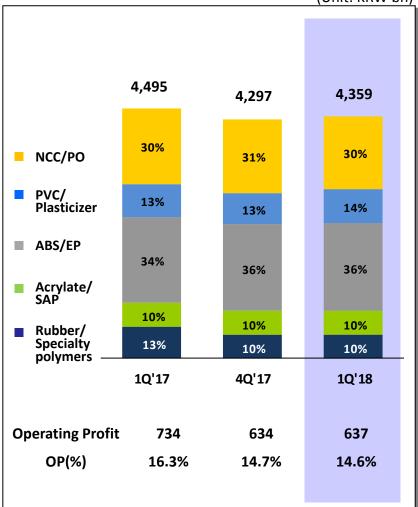
## **Financial Ratios**

Classification	<b>'17</b> (End)	1Q'18 (End)	Change
Borrowings / Equity (%)	18.6	25.7	7.1%p
Net borrowings/ Equity (%)	1.6	6.7	5.1%p
Interest Coverage Ratio (x)	29.3	25.4	-3.9
ROE (%)	13.3	13.5	0.2%p
ROA (%)	8.9	8.6	-0.3%p



### **Divisional Results**





## **Analysis & Outlook**

#### **Analysis**

 Despite improvement in some products' spread, profitability was maintained QoQ due to strong KRW and increase in feedstock cost

-NCC/PO : Limited spread improvement due to burden of feedstock

cost caused by oil price rise

**-PVC/**: Improved profit thanks to widened spread on the back

Plasticizer of demand recovery

-ABS/EP : Continued solid earnings thanks to robust sales driven

by demand for home appliances in China

-Acrylate/: Improved profitability thanks to increase in sales of

SAP premium product

**-Rubber/**: Increased profit thanks rise of contract price of synthetic

Specialty rubber Polymers

#### **Outlook**

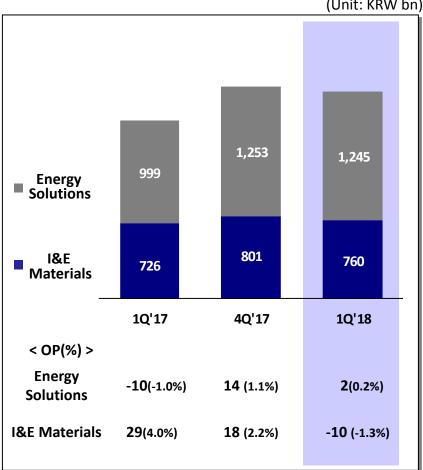
 Despite the uncertainty such as F/X and oil price, business performance is expected to improve thanks to seasonality and increase of premium product sales

## **Divisional Results & Outlook**

# **Divisional Results**

**Analysis & Outlook** 





#### **Analysis**

- Energy : Despite decrease of ESS / small size battery shipment Solutions due to seasonality, EV battery sales increased with strong market demand for FV
- : ASP cut / declined shipment due to weak market situation of I&E Materials front industry and strong KRW caused sales decrease and operating loss

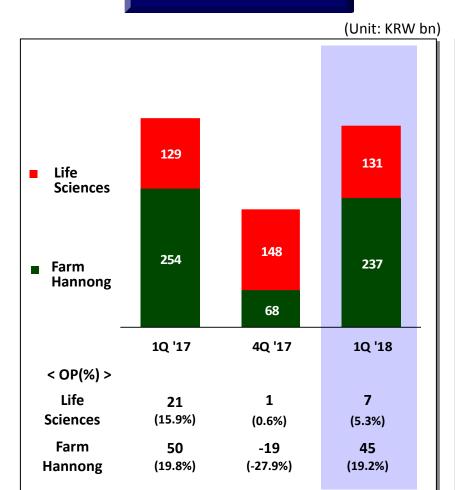
#### Outlook

- Energy : Continuous sales growth and profitability improvement are Solutions expected on the back of increase in demand for overall business of EV / ESS / small size battery
- : Although weak display market situation will likely to impact, I&E profitability is expected to improve thanks to shipment **Materials** increase due to seasonality as well as cost saving effect

## **Divisional Results & Outlook**

# **Divisional Results**

# **Analysis & Outlook**



#### **Analysis**

- Life : Profit improved thanks to the milestone income through Sciences new drug approval in overseas despite decrease in vaccine sales
- Farm : Sales and OP surged QoQ thanks to seasonality while slightly
   Hannong decreased YoY due to selective participation in the tenders
   as well as increased R&D investment

#### **Outlook**

- Life : Increase in sales driven by growth of major products and new drug's (Eucept) launch is expected while increase in R&D investment for developing new molecule drug and marketing expense are planned
- Farm Hannong: YoY growth through sales expansion of premium products and launch of new crop protection product (Terrado'r) is estimated

Classification			2016					2017			2018
Classification	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q
Sales	4,874	5,219	5,054	5,512	20,659	6,487	6,382	6,397	6,432	25,698	6,554
Operating Profit	458	612	460	462	1,992	797	727	790	615	2,929	651
(%)	9.4%	11.7%	9.1%	8.4%	9.6%	12.3%	11.4%	12.3%	9.6%	11.4%	9.9%
EBITDA	780	946	796	805	3,327	1,151	1,074	1,137	972	4,335	1,006
(%)	16.0%	18.1%	15.8%	14.6%	16.0%	17.8%	16.8%	17.8%	15.1%	16.9%	15.3%
Basic Materials & Chemicals	3,512	3,653	3,525	3,758	14,447	4,495	4,319	4,316	4,297	17,427	4,359
NCC / PO	1,156	1,221	1,131	1,161	4,669	1,362	1,291	1,246	1,323	5,222	1,326
PVC / Plasticizer	489	508	496	542	2,035	588	572	560	568	2,288	605
ABS	877	920	866	948	3,611	1,216	1,185	1,261	1,214	4,876	1,233
EP	298	299	304	308	1,210	332	307	357	347	1,343	347
Acrylate / SAP	345	331	357	391	1,424	435	427	425	420	1,706	427
Rubber / Specialty Polymer	347	374	370	408	1,499	563	537	467	424	1,991	420
Operating Profit	466	649	517	506	2,139	734	686	755	634	2,808	637
(%)	13.3%	17.8%	14.7%	13.5%	14.8%	16.3%	15.9%	17.5%	14.7%	16.1%	14.6%
Energy Solutions	814	809	879	1,059	3,562	999	1,120	1,189	1,253	4,561	1,245
Operating Profit	0	-31	-14	-4	-49	-10	8	18	14	29	2
(%)	0.0%	-3.9%	-1.6%	-0.3%	-1.4%	-1.0%	0.7%	1.5%	1.1%	0.6%	0.2%
I&E Materials	627	650	641	739	2,656	726	747	787	801	3,062	760
Operating Profit	-8	-15	-16	-16	-55	29	23	41	18	112	-10
(%)	-1.3%	-2.2%	-2.5%	-2.2%	-2.1%	4.0%	3.1%	5.2%	2.2%	3.6%	-1.3%
Life Sciences	120	131	135	147	532	129	135	139	148	552	131
Operating Profit	17	11	10	9	47	21	19	13	1	54	7
(%)	14.3%	8.1%	7.5%	6.4%	8.9%	15.9%	14.0%	9.5%	0.6%	9.7%	5.3%
Farm Hannong	242	189	87	50	568	254	186	97	68	604	237
Operating Profit	39	-2	-20	-31	-15	50	14	-10	-19	36	45
(%)	15.9%	-1.2%	-23.3%	-61.1%	-2.6%	19.8%	7.3%	-10.1%	-27.9%	5.9%	19.2%



# **Borrowings**

(Unit: KRW bn)

		(Unit :	KRW bn)
Classification	'16 (End)	'17 (End)	1Q'18 (End)
<b>Total</b> (Overseas Subsidiaries)	<b>2,891</b> (1,892)	<b>3,045</b> (1,686)	<b>4,236</b> (1,854)
KRW Currency	<b>521</b> 18%	<b>1,327</b> 44%	<b>2,375</b> 56%
СР	270	1,217	2,264
Others	252	110	111
Foreign Currency	<b>2,369</b> 82%	<b>1,718</b> 56%	<b>1,861</b> 44%
Short-term (Overseas Subsidiaries)	<b>2,213</b> (1,284) 77%	<b>1,451</b> (1,167) 48%	<b>1,593</b> (1,323) 38%
Long-term (Overseas Subsidiaries)	<b>678</b> (607) 23%	<b>1,594</b> (519) 52%	<b>2,643</b> (531) 62%
Cash	2,207	2,779	3,132
Net borrowings	683	266	1,105

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

# **Cash Flow**

Classification	'17	4Q'17 (Acc.)	1Q'18 (End)
	(Acc.)	(ACC.)	(Ella)
Beginning Cash	2,207	2,400	2,779
Operating/Investing	1,337	546	-831
Operating profit	2,929	615	651
Depreciation	1,406	357	355
Working Capital	-845	168	-707
Investing Activities	-1,844	-536	-867
Others	-309	-59	-262
Financing	-737	-132	1,170
Borrowings (Financed & reimbursed)	-351	-132	1,170
Dividends paid	-386	-	-
Ending Cash	2,779	2,779	3,132

## **CAPEX**

(Unit: KRW bn)

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Clas	sification	'16 (Acc.)	<b>'17</b> (Acc.)	4Q '17	1Q '18
Basic	New / Expansion	103	324	192	116
Materials &	Maintenance	289	345	143	49
Chemicals	Total	392	669	335	164
Energy	New / Expansion	365	691	301	150
Solutions	Maintenance	197	259	109	30
Jointions	Total	563	950	410	181
I & E	New / Expansion	291	120	42	46
Materials	Maintenance	95	101	37	28
	Total	386	221	79	75
Life	New / Expansion	124	81	34	24
Sciences	Maintenance	38	25	9	2
Sciences	Total	162	106	43	26
Common	New / Expansion	555	395	194	23
(including	Maintenance	82	200	115	32
Farm Hannong)	Total	637	595	309	55
	New / Expansion	1,314	1,612	764	359
Total	Maintenance	663	928	413	141
	Total	1,977	2,540	1,177	500

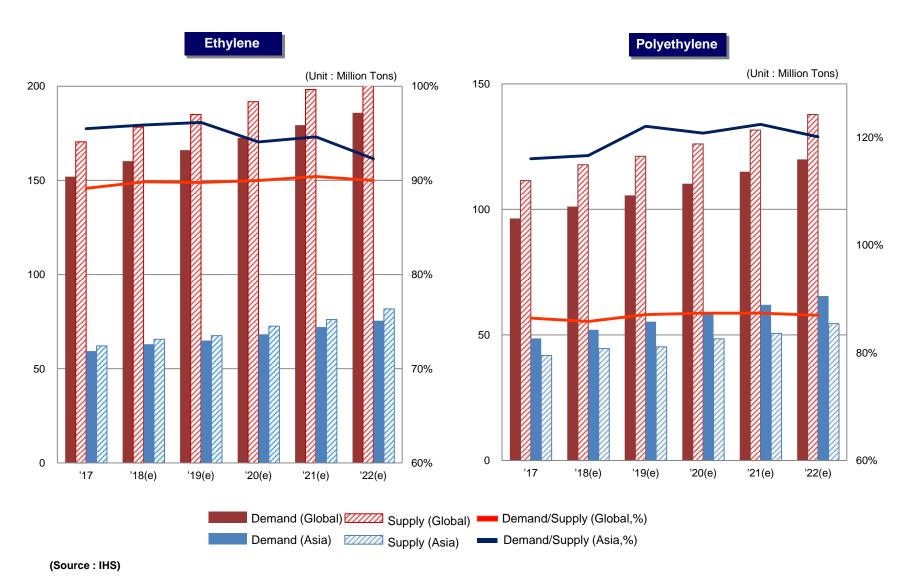
# R&D expenses

	(Unit: KRW br						
Classification	'16 (Acc.)	'17 (Acc.)	4Q '17	1Q '18			
Basic Materials & Chemicals (% of sales)	150 (1.0%)	164 (0.9%)	41 (0.9%)	40 (0.9%)			
Energy Solutions (% of sales)	276 (7.7%)	299 (6.2%)	75 (6.0%)	70 (5.6%)			
I & E  Materials (% of sales)	161 (6.1%)	181 (5.9%)	47 (5.9%)	48 (6.3%)			
Life Sciences (% of sales)	91 (17.1%)	96 (17.4%)	28 (19.1%)	28 (21.3%)			
Common (including Farm Hannong)	91	152	43	47			
<b>Total</b> (% of sales)	678 (3.3%)	892 (3.5%)	235 (3.6%)	233 (3.6%)			

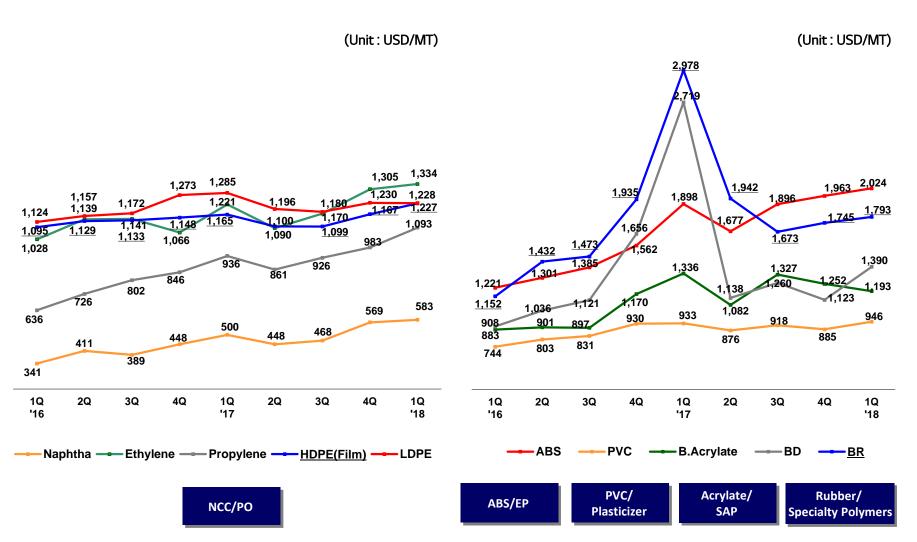
<sup>\*</sup> As of 1Q'18, more than 50% of Energy solutions' R&D expenses were used for EV battery accumulatively



# **Ethylene/PE Demand & Supply**



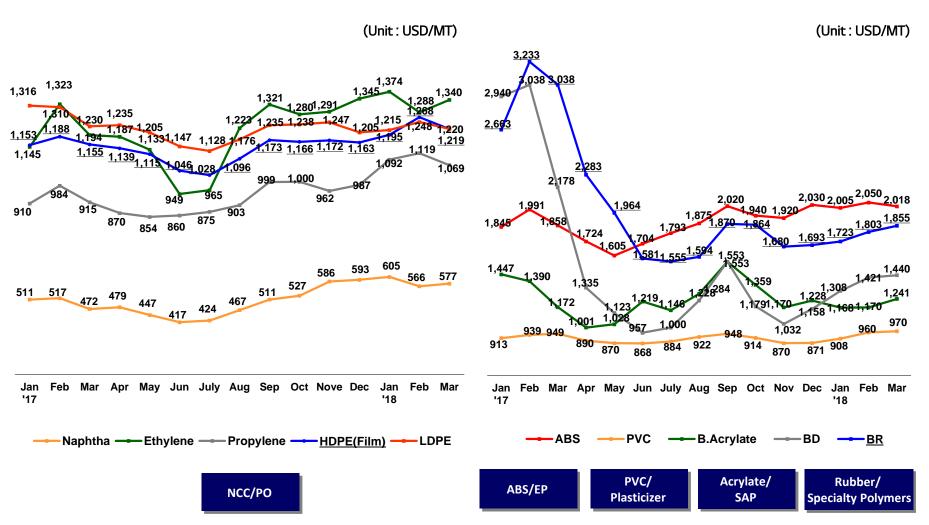




• The prices are average price of CFR FE Asia for general grade in each product group.

## **Monthly Price Trends**

# **Appendix**



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