### Solution Partner

# 2Q 2019 Business Results & Outlook

1-

G Chem



## Contents

- 2Q 2019 Earnings Summary 4~5
- Results & Outlook by Business 6~9

### Appendix

10~17

- Sales & Operating Profit by Business
- CAPEX / R&D Expenses
- Income Statements / Financial Position / Cash Flows
- Ethylene / PE Demand & Supply
- Quarterly / Monthly Price Trends

The business results 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. Please note it may differ from actual results, due to uncertainties including changes in the future business environment and recalibration of strategy.

## 2Q 2019 Business Results

(Unit:KRW bn)

		2018		20	19	VeV	0-0
	2Q	3Q	4Q	1Q <b>2Q</b>		ΥοΥ	QoQ
Sales	7,052	7,235	7,343	6,639	7,177	+1.8%	+8.1%
OP (%)	703 10.0%	602 8.3%	290 3.9%	275 4.1%	268 3.7%	-62.0%	-2.9%
EBITDA (%)	1,065 15.1%	975 13.5%	684 9.3%	682 10.3%	725 10.1%	-31.9%	+6.3%
Pre-tax Income	644	485	158	280	193	70.19/	24.09/
(%)	9.1%	6.7%	2.1%	4.2%	2.7%	-70.1%	-31.0%
Net Income	493	347	127	212	84	-83.0%	-60.4%
(%)	7.0%	4.8%	1.7%	3.2%	1.2%	-03.070	

### **Balance Sheet**

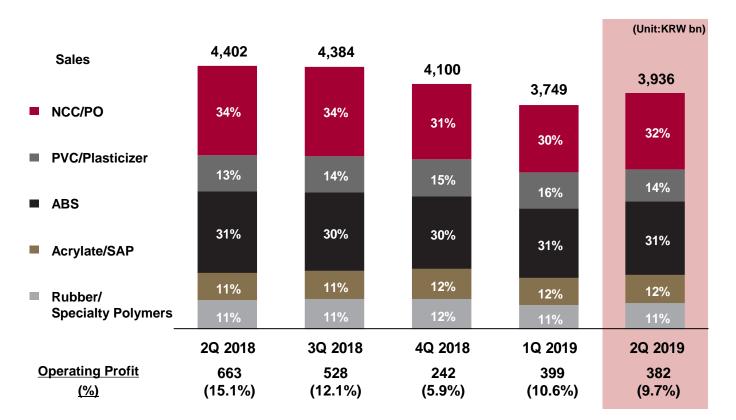
				(Unit:KRW tn)
	2018	1Q 2019	2Q 2019	QoQ
Asset	28.94	31.21	32.44	+3.9%
Cash and Equivalents	2.56	3.12	2.67	-14.6%
Liabilities	11.62	14.01	15.16	+8.2%
Debt	5.32	6.90	8.48	+22.8%
Shareholder's Equity	17.32	17.20	17.28	+0.5%

### **Financial Ratios**

	2018	1Q 2019	2Q 2019	QoQ
Liabilities / Equity	67.1%	81.5%	87.7%	+6.2%p
Debt / Equity	30.7%	40.1%	49.1%	+9.0%p
Net Debt / Equity	16.0%	22.0%	33.6%	+11.6%p
ROE	9.0%	4.9%	3.4%	-1.5%p
ROA	5.6%	2.8%	1.9%	-0.9%p

ROE: Annualized net profit / Avg of beginning & ending shareholders' equity ROA: Annualized net profit / Avg of beginning & ending assets

### **Petrochemicals**



#### [Analysis]

 Pressuring profitability due to one-off loss and lower spread which caused by sluggish demand and rise in feedstock prices

#### [Outlook]

- Spreads for main products are expected to be weak but limited possibility of further decline
- Solid performance in premium products and full effect of capacity expansion

#### (Unit:KRW bn) 2,077 2,009 Energy 1,704 Solutions 1,650 1,494 2Q 2018 3Q 2018 4Q 2018 1Q 2019 2Q 2019 **Operating Profit** 27 84 96 -148 -128 <u>(%)</u> (1.8%) (4.9%) (4.6%) (-9.0%) (-6.4%)

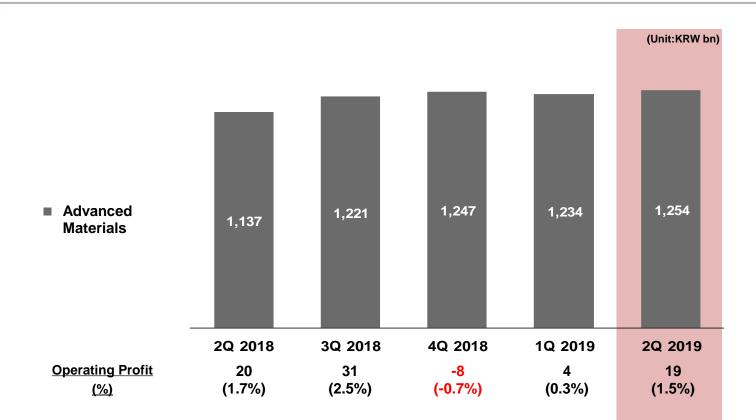
#### [Analysis]

 Loss recorded due to an increase in fixed cost, operation cost in new capacity, and one-off loss in ESS

#### [Outlook]

 Profitability is expected to be improved because of an increase sales in all business segments and stabilization in production yield

**Energy Solutions** 

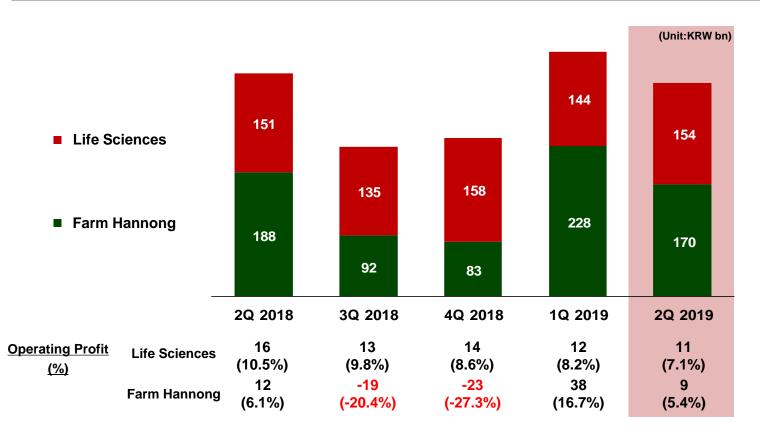


#### [Analysis]

 Slightly improved sales and profitability due to increased shipment of IT materials

#### [Outlook]

 Sales are expected to grow in increased shipment of Automotive and IT materials



#### [Analysis]

- Life Sciences: Increased sales due to expansion of sales in Eucept and Zemiglo
- Farm Hannong: Decreased YoY sales due to focusing on profit-driven selective bidding and reduced domestic consumption

#### [Outlook]

- Life Sciences: Although sales in main products is expected to grow, R&D expenses increase as well
- Farm Hannong: Increased YoY profitability is expected due to expansion of sales in premium products



### **Sales & Operating Profits by Business**

			2017			2018					2019			
LG CHEM	1Q	2Q	3Q	4Q		1Q	2Q	3Q	4Q		1Q	2Q		
Sales	6,487	6,382	6,397	6,432	25,698	6,554	7,052	7,235	7,343	28,183	6,639	7,177	13,817	
Operating Profits	797	727	790	615	2,929	651	703	602	290	2,246	275	268	543	
(%)	12.3%	11.4%	12.3%	9.6%	11.4%	9.9%	10.0%	8.3%	3.9%	8.0%	4.1%	3.7%	3.9%	
EBITDA	1,151	1,074	1,137	972	4,335	1,006	1,065	975	684	3,730	682	725	1,408	
(%)	17.7%	16.8%	17.8%	15.1%	16.9%	15.3%	15.1%	13.5%	9.3%	13.2%	10.3%	10.1%	10.2%	
Petrochemicals	4,240	4,072	4,031	4,036	16,378	4,100	4,402	4,384	4,100	16,987	3,749	3,936	7,685	
NCC/PO	1,438	1,351	1,318	1,409	5,516	1,415	1,504	1,495	1,267	5,681	1,136	1,270	2,405	
PVC/Plasticizer	588	572	560	568	2,288	605	596	611	622	2,434	596	538	1,134	
ABS	1,216	1,185	1,261	1,214	4,876	1,233	1,357	1,304	1,209	5,102	1,170	1,228	2,397	
Acrylate/SAP	435	427	425	420	1,706	427	468	477	495	1,868	447	461	909	
Rubber/ Specialty Polymer	563	537	467	424	1,991	420	478	497	508	1,903	400	440	840	
<b>Operating Profits</b>	700	666	721	596	2,683	598	663	528	242	2,031	399	382	781	
(%)	16.5%	16.4%	17.9%	14.8%	16.4%	14.6%	15.1%	12.1%	5.9%	12.0%	10.6%	9.7%	10.2%	
Energy Solutions	999	1,120	1,189	1,253	4,561	1,245	1,494	1,704	2,077	6,520	1,650	2,009	3,660	
<b>Operating Profits</b>	-10	8	18	14	29	2	27	84	96	209	-148	-128	-276	
(%)	-1.0%	0.7%	1.5%	1.1%	0.6%	0.2%	1.8%	4.9%	4.6%	3.2%	-9.0%	-6.4%	-7.5%	
Advanced Materials	1,057	1,053	1,144	1,148	4,402	1,107	1,137	1,221	1,247	4,710	1,234	1,254	2,487	
<b>Operating Profits</b>	63	43	75	56	237	29	20	31	-8	71	4	19	23	
(%)	6.0%	4.1%	6.6%	4.8%	5.4%	2.6%	1.7%	2.5%	-0.7%	1.5%	0.3%	1.5%	0.9%	
Life Sciences	129	135	139	148	552	131	151	135	158	575	144	154	298	
<b>Operating Profits</b>	21	19	13	1	54	7	16	13	14	50	12	11	23	
(%)	15.9%	14.0%	9.5%	0.6%	9.7%	5.3%	10.5%	9.8%	8.6%	8.6%	8.2%	7.1%	7.6%	
Farm Hannong	254	186	97	68	604	237	188	92	83	600	228	170	398	
Operating Profits	50	14	-10	-19	36	45	12	-19	-23	15	38	9	47	
(%)	19.8%	7.3%	-10.0%	-28.0%	5.9%	19.2%	6.1%	-20.4%	-27.3%	2.6%	16.7%	5.4%	11.9%	

(Unit:KRW bn)

\* Applied retroactive effects of past performance based on the reorganization



### **CAPEX / R&D Expenses**

### CAPEX

				(Onter a contract)
	2017	2018	1Q 2019	2Q 2019
Petrochemicals	0.6	1.4	0.4	0.4
Energy Solutions	1.0	1.9	0.6	0.7
Advanced Materials	0.2	0.5	0.1	0.2
Life Sciences	0.1	0.1	0.01	0.02
Common (including Farm Hannong)	0.6	0.7	0.1	0.1
Total	2.5	4.6	1.3	1.4

(Unit:KRW tn)

#### 2017 2018 1Q 2019 2Q 2019 Petrochemicals 132 144 34 39 Energy 299 320 98 98 **Solutions** Advanced 213 235 42 52 **Materials Life Sciences** 96 124 32 37 Common (including 152 238 51 59 Farm Hannong)

1,062

261

893

Total

**R&D** Expenses

285

	2017							2018		2019			
	1Q	2Q	3Q	4Q		1Q	2Q	3Q	4Q		1Q	2Q	
Sales	6,487	6,382	6,397	6,432	25,698	6,554	7,052	7,235	7,343	28,183	6,639	7,177	13,817
Cost of Sales	5,073	5,011	4,940	5,110	20,135	5,212	5,580	5,868	6,177	22,837	5,469	6,029	11,499
Gross Profit(%)	1,414	1,371	. 1,457	1,322	5,564	1,342	1,472	1,367	1,166	5,346	1,170	1,148	2,318
	21.8%	21.5%	22.8%	20,6%	21.6%	20.5%	20.9%	18.9%	15.9%	19.0%	17.6%	16.0%	16.8%
SG&A Expenses	617	644	667	707	2,635	691	768	765	876	3,100	895	881	1,775
Operating Profit(%)	797	727	790	615	2,929	651	703	602	290	2,246	275	268	543
<b>J</b>	12.3%	11.4%	12.3%	9.6%	11.4%	9.9%	10.0%	8.3%	3.9%	8.0%	4.1%	3.7%	3.9%
Other non-operating income(expenses)	-99	3	87	-181	-365	2	-59	-117	-132	-306	4	-75	-70
Income before tax	698	730	702	434	2,564	653	644	485	158	1,940	280	193	473
Net Income	548	590	546	338	2,022	553	493	347	127	1,519	212	84	296
EPS(Unit:KRW)	6,936	7,531	6,799	4,101	25,367	6,934	6,234	4,481	1,568	19,217	2,537	888	3,425

(Unit:KRW bn)

\* The business results 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.

Appendix



		20	17			20	2019			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q
Assets	22,171	22,671	23,708	25,041	26,416	27,399	28,419	28,944	31,212	32,436
Cash and Equivalents	1,909	2,107	2,400	2,779	3,132	2,830	3,333	2,557	3,122	2,667
A/R	3,961	4,184	4,523	4,449	4,709	5,146	4,949	4,381	4,616	4,738
Inventory	3,250	• • 3,086	3,187	3,353	3,784	3,950	4,404	4,290	4,503	4,771
Tangible / Intangible Assets	11,773	11,954	12,130	13,035	13,366	13,936	14,074	15,845	16,938	17,993
Liabilities	7,265	7,137	7,586	8,703	9,905	10,391	11,162	11,622	14,013	15,157
A/P	1,808	1,609	1,756	2,015	1,999	2,156	2,541	2,166	2,434	2,549
Short-term debts	2,175	• • 1,454	1,361	1,451	1,593	1,903	2,037	1,613	1,630	1,432
Long-term debts	972	1,869	1,915	1,594	2,643	3,211	3,262	3,708	5,275	7,049
Shareholders' Equity	14,906	15,535	16,122	16,339	16,510	17,009	17,257	17,322	17,199	17,279
Liabilities/Equity(%)	48.7%	45.9%	47.1%	53.3%	60.0%	61.1%	64.7%	67.1%	81.5%	87.7%
Net debt/Equity(%)	8.3%	7.8%	5.4%	1.6%	6.7%	13.4%	11.4%	16.0%	22.0%	33.6%
BPS (Unit:KRW)	188,859	196,894	203,952	206,544	208,363	214,535	217,500	218,227	216,308	217,445

(Unit:KRW bn)

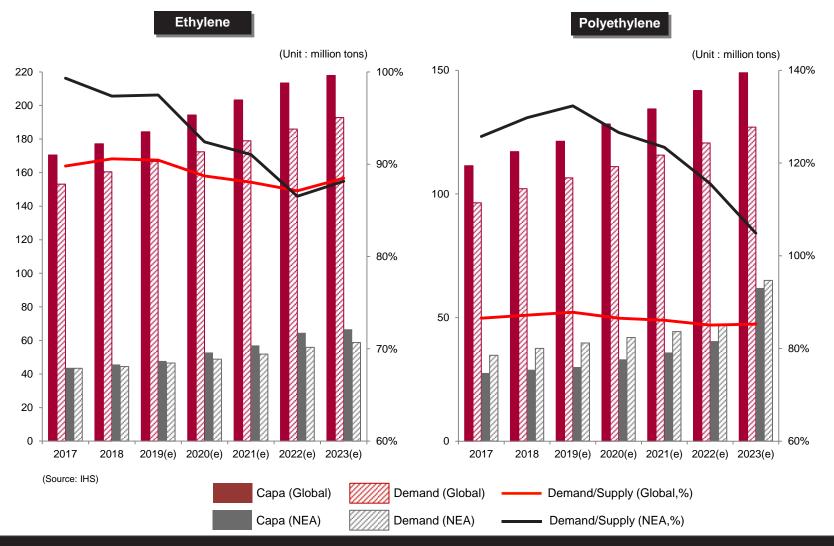
\* The business results currently under audit review are presented here for investors' convenience. Hence, please be advised that some of their contents may be altered in the course of audit.

												(0		
			2017					2018		2019				
	1Q	2Q	3Q	4Q		1Q	2Q	3Q	4Q		1Q	2Q		
Beginning Cash Balance	2,207	1,909	2,107	2,400	2,207	2,779	3,132	2,830	3,333	2,779	2,557	3,122	2,557	
Operating / Investing Activities	0	442	350	546	1,337	-831	-662	289	-798	-2,001	-903	-1,490	-2,392	
Operating Profits	797	- 727	790	615	2,929	651	703	602	290	2,246	275	268	543	
Depreciation	355	347	347	357	1,406	355	362	373	394	1,484	407	458	865	
Working Capital	-462	-258	-294	168	-845	-707	-446	128	326	-699	-181	-275	-456	
Investing Activities	-223	-514	-571	-315	-1,623	-867	-744	-905	-1,610	-4,126	-1,547	-1,729	-3,276	
Others	-466	139	77	-279	-529	-262	-537	91	-198	-907	143	-210	-68	
Financing Activities	-271	-262	-72	-132	-737	1,170	369	238	17	1,794	1,450	1,003	2,453	
Debts	-474	177	-47	-232	-575	1,191	878	186	-3	2,252	1,498	1,661	3,159	
Dividends	-	-386	-	-	-386	-	-460	-32	-2	-494	-	-484	-484	
Ending Cash Balance	1,909	2,107	2,400	2,779	2,779	3,132	2,830	3,333	2,557	2,557	3,122	2,666	2,666	

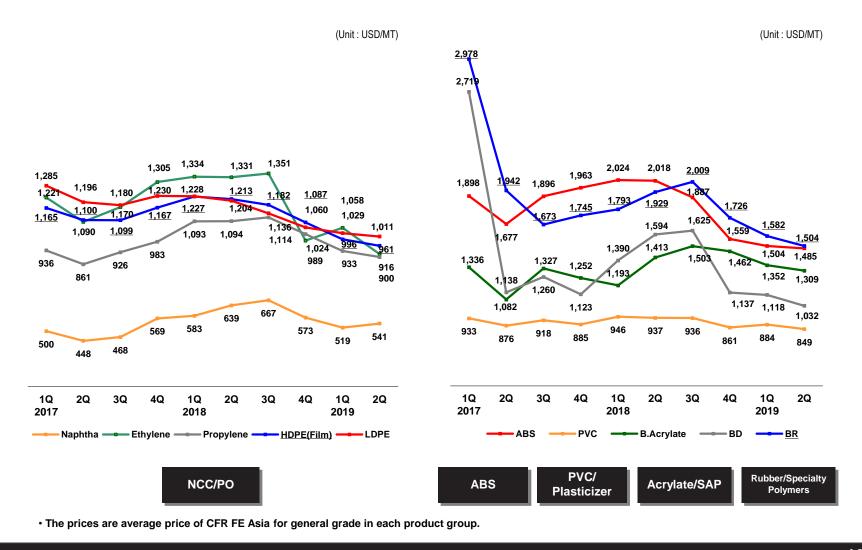
(Unit:KRW bn)

\* The business results 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.

# Appendix

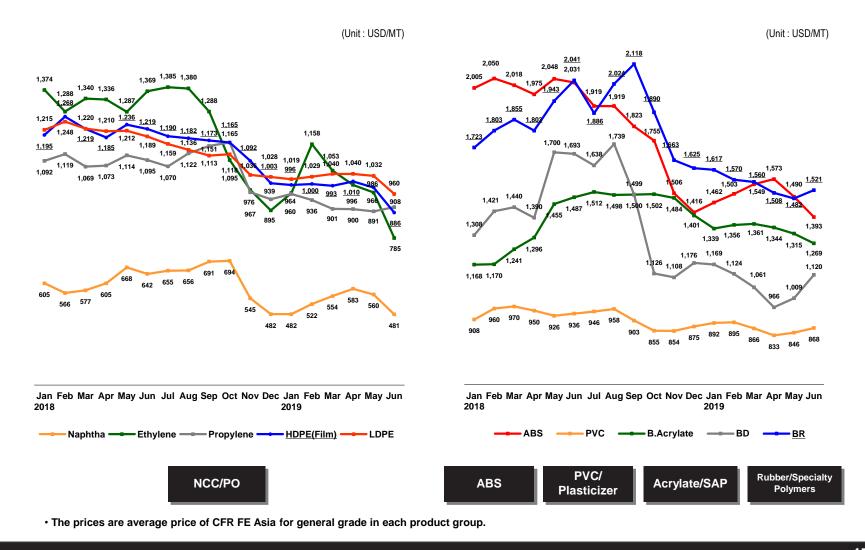


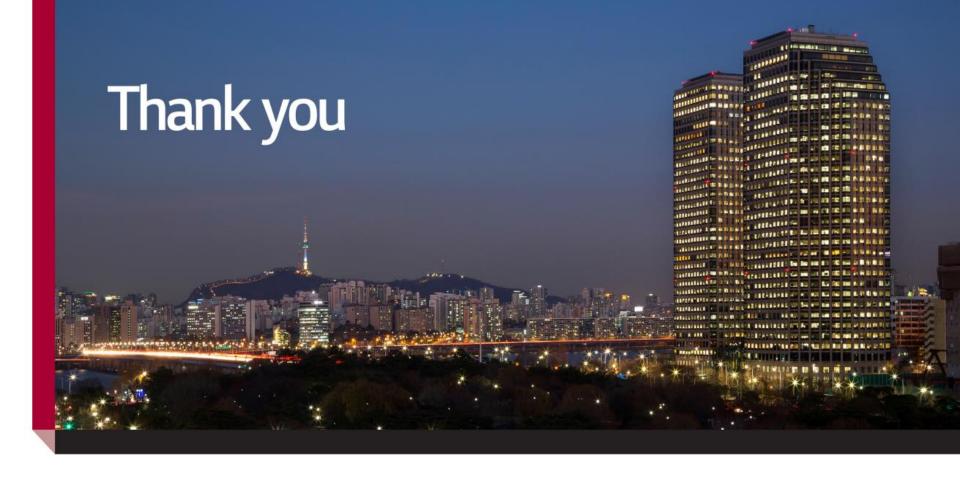




16









Copyright © 2019 LG Chem All Rights Reserved.