Solution Partner

Business & Market Outlook

Mar, 2013



Disclaimer

The business results for the forth quarter of 2012 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.

From the first quarter of 2012, this material shows business results and related substances by 3 divisions(Petrochemicals, I&E Materials and Energy Solution) and thus past figures are revised to a same basis.

The business results are subject to the IFRS(International Financial Reporting Standards) from 2010. In addition, operating profits for 2011 and 2012 are amended to reflect revisions of "K-IFRS, No. 1001" decided on 19th regular Financial Services Commission's meeting on October 17th, 2012.

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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LG Chem at a Glance

- LG Chem was started in 1947 and is Korea's first and largest chemical company with an established track of over 60 years and annual revenues of KRW 23.3 trillion in 2012.
- LG Chem boasts multiple production facilities and an extensive distribution network that spans 15 countries worldwide in Asia, Europe, North and South America.
- LG Chem currently holds the largest vertically integrated petrochemical production platform in Korea.
- LG Chem was reborn as a specialized and diversified chemical company that focuses on petrochemical goods, rechargeable batteries including HEV/EV purpose, OLED materials, and 3D FPR.
- LG Chem will seek operational excellence in its core business and centralize its resources with new business such as HEV/EV batteries and LCD glass substrates to reinforce the necessary momentum for future growth.
- Despite high uncertainties remaining in the business environment such as a delayed recovery in the global economy, LG Chem recorded historically the highest sales in 2012.

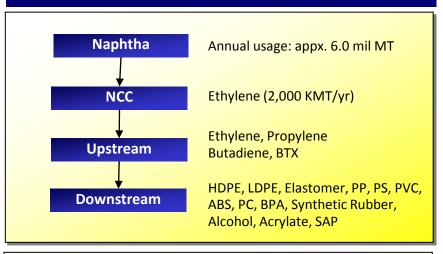


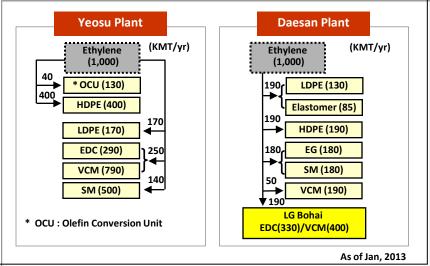
★ Sales and EBIT are subject to IFRS from 2009. Those prior to 2009 are subject to K-GAAP(consolidated base).



Differentiated Competitiveness

Vertical Integration Structure





Co-existence of upstream and downstream products

- One of few petrochemical companies around the globe with vertical integration structure, featuring both upstream and downstream production capability.
- This structural characteristic delivers stable business performance against industry cyclicality.

Comprehensive downstream product lines

LG Chem's comprehensive downstream product lines of PO, ABS, PVC and other various products have complementary business cycles, enabling the Company to generate stable revenue

Stabilized revenue generating capability under any market conditions



Classification	'11.4Q	'12.3Q	'12.4Q	YoY	QoQ
Sales	5,599	5,834	5,681	1.5%	-2.6%
Operating Profit	508	601	364	-28.4%	20.49/
(%)	(9.1)	(10.3)	(6.4)	-28.4%	-39.4%
Pre-tax Income	502	585	375	25 20/	25.00/
(%)	(9.0)	(10.0)	(6.6)	-25.3%	-35.9%
Net Income	377	459	292	-22.5%	-36.4%

4Q 2012 Business Results

Financial Position

(Unit: KRW bn)

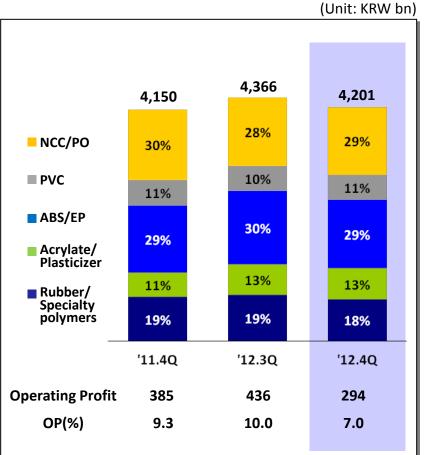
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Classification	'11	'12	Change
Asset	15,286	16,581	8.5%
Cash and equivalents	1,379	1,341	-2.8%
Liabilities	5,578	5,816	4.3%
Borrowings	2,527	2,947	16.6%
Shareholder's Equity	9,708	10,765	10.9%
EBITDA	3,592	2,778	

Financial Ratios

Classification	'11	'12	Change
Total Liabilities/ Equity (%)	57.5	54.0	-3.5%p
Borrowings / Equity (%)	26.0	27.4	1.4%p
Interest Coverage Ratio (x)	42.0	25.7	-16.3
ROE (%)	24.7	14.7	-10.0%p
ROA (%)	15.5	9.5	-6.0%p

Divisional Results & Outlook

Business results



Analysis

Analysis

Overall margin declined due to weak seasonal demand, rising feedstock costs and strengthening Korean won, etc

-NCC/PO : Recovery of PO product price slowed while naphtha

price went up

: Margin squeezed due to influx of offshore supplies and -PVC

weak seasonality

-ABS/EP : Narrowed spread by rising feedstock costs (mainly SM)

: Achieved favorable business results by strong product -Acrylate/

Plasticizer price amid tightening of supply

-Rubber/ : Margin declined due to price decrease by low utilization Specialty

rate of tire industry and worsening demand for BPA Polymers

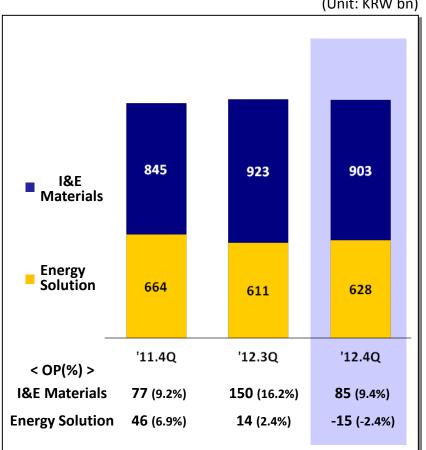
Outlook

- **■** Expect gradual recovery of product price and spread thanks to Chinese re-stocking demand after New Year's holiday
- Strengthen competitiveness through cost leadership and differentiated product portfolio by expanding premium products

I & E Materials/Energy Solution

Business results

(Unit: KRW bn)



Analysis

Analysis

- Diminished profits due to weak seasonality and one-off expense
- I&E : While revenue decreased due to panel makers' year-end Materials inventory adjustment, recorded relatively sound results thanks to 3D FPR sales increase
- Energy: Recorded sluggish earnings due to weak Notebook PC **Solution** demand and EV/HEV sales despite polymer battery sales increase for smartphones and Tablet PCs
- Outlook
- Secure profitability and global leading position through changing product mix
- I&E : Achieve sound results based on high margin products Materials such as 3D FPR regardless of slow season
- Energy: Expect gradual rise in automotive battery sales while **Solution** shipments decrease of consumer batteries due to weak demand in IT devices during off-season



2013 Business Plan

Business Plan

(Unit: KRW bn)

Classification		Classification '12	
	Sales	23,260	24,860
	Petro- chemicals	17,580	18,300
	I&E Materials	3,450	3,900
	Energy Solution	2,480	2,940
	Operating Profits	1,910	-
	САРЕХ	2,070	2,120

Business Strategy

- ☐ Petrochemicals : Enhance business portfolio through technology
- Promote market-driven business by differentiated technology
- Strengthen differentiated product portfolio by cultivating technology-based businesses such as SAP and SSBR, etc
- Seek investment opportunity with securing cheap feedstock and expanding business on emerging markets
- ☐ I&E Materials : Expand high margin products & strengthen competitiveness of new business
- Display Materials : Expand differentiated product lines
- Increasing high margin product sales including polarizers and 3D FPR
- Beginning ITO film in earnest & growing OLED materials to meet new demands
- New Business
- Enhancing competitiveness of LCD glass through stabilizing production
- Preparing for commercialization of OLED lighting
- ☐ Energy: Strengthen global leading position through differentiated products
 Solution & new market creation
- Consumer Battery: Diversify application such as power tools and E-bike
- Automotive Battery : Develop differentiated products with high performance and price competitiveness to lead the market
- Securing new customers & obtaining ESS projects



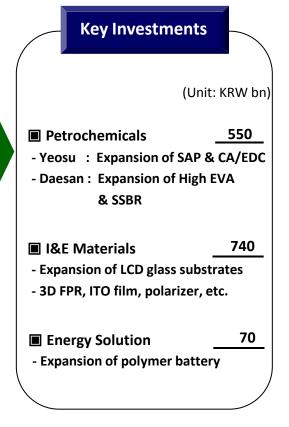
2013 Business Plan

Cash Flow

CAPEX

	(Onic. Kitvi bii)	
Classification	Amounts	
Cash Inflow	2,840	
From Operating	1,800	
Depreciation	1,040	
Cash Outflow	2,790	
CAPEX	2,120	
Working Capital & others	350	
Dividend	320	
Net Cash Flow	50	

	Classification	Amounts
	Total	2,120
Туре	New / Expansion	1,360
pe	Maintenance	760
	Petrochemicals	790
Divi	I&E Materials	870
Divisional	Energy Solution	220
	Common	250



Classification			2011					2012		
Classification	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total
Sales	5,491	5,700	5,886	5,599	22,676	5,753	5,996	5,834	5,681	23,263
Operating Profit	831	763	717	508	2,819	447	499	601	364	1,910
Petrochemicals	4,276	4,328	4,570	4,150	17,325	4,491	4,521	4,366	4,201	17,579
NCC/PO	1,091	1,136	1,279	1,264	4,770	1,308	1,272	1,226	1,217	5,022
PVC	500	517	502	455	1,974	478	485	449	450	1,862
ABS/EP	1,347	1,318	1,293	1,208	5,166	1,312	1,325	1,320	1,234	5,191
Acrylate/Plasticizer	549	550	546	441	2,085	530	556	551	557	2,195
Synthetic Rubber/ Specialty Resin	789	807	950	783	3,330	864	883	819	743	3,310
Operating Profit	734	628	583	385	2,329	366	340	436	294	1,436
I&E Materials	807	891	800	845	3,343	761	864	923	903	3,452
Operating Profit	94	116	87	77	374	69	131	150	85	436
Energy Solution	468	561	576	664	2,269	562	677	611	628	2,479
Operating Profit	4	20	48	46	118	12	28	14	-15	39

^{**} Operating profits for 2011 and 2012 are amended to reflect revisions of "K-IFRS, No. 1001" decided on 19th regular Financial Services Commission's meeting on October 17th, 2012.



Borrowings

(Unit: KRW bn)

		Unit : KRW bn)
Classification	'11	'12
Total	2,527	2,947
(Overseas Subsidiaries)	(1,044)	(1,024)
	100%	100%
KRW Currency	475	812
KKW Currency	19%	28%
СР	449	. 598
Others	. 27	214
	2,052	2,135
Foreign Currency	81%	72%
Loan	1,124	1,140
Negotiation Borrowings	928	994
Short-term	1,838	1,752
(Overseas Subsidiaries)	(679)	(739)
	73%	59%
Long-term	689	1,195
(Overseas Subsidiaries)	(365)	(286)
	27%	41%

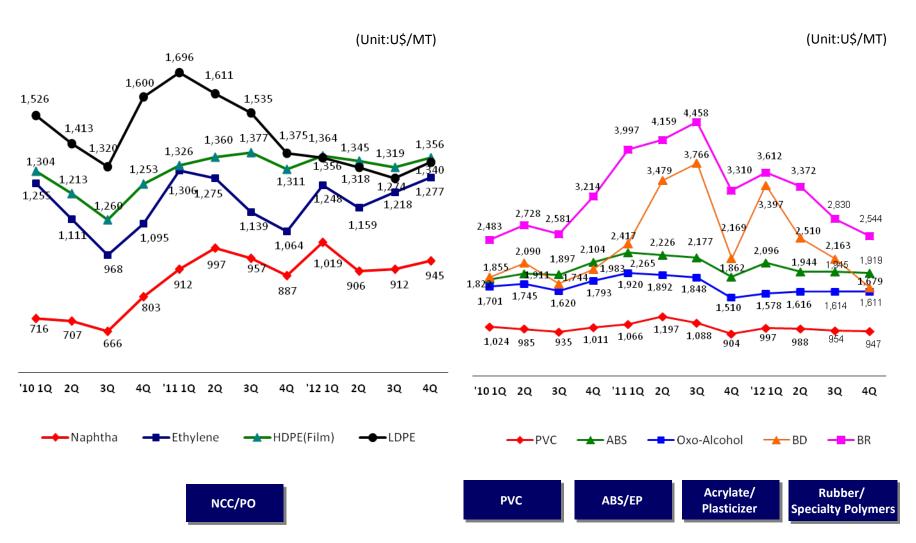
Cash Flow

	Classification	'11	′12
	Beginning Cash	1,368	1,379
Or	perating/Investing	-96	-143
	Net Income	2,170	1,506
	Depreciation	757	868
	Working Capital	-680	-147
	САРЕХ	-2,321	-2,075
	Others	-22	-294
Fir	nancing	107	104
	Borrowings	426	420
	Dividends	-319	-316
	Ending	1,379	1,341

Class	ification	'10	'11	'12 Plan	'12
	New / Expansion	320	664	743	784
Petrochemicals	Maintenance	266	296	269	226
	Total	586	960	1,012	1,009
I & E	New / Expansion	425	330	539	242
Materials	Maintenance	78	100	89	82
	Total	503	430	628	324
Enorgy	New / Expansion	389	660	473	395
Energy Solution	Maintenance	85	105	139	101
	Total	474	765	612	496
Common	New / Expansion	-	-	-	16
Expenses	Maintenance	139	166	296	230
	Total	139	166	296	246
	New / Expansion	1,134	1,654	1,755	1,436
Total	Maintenance	568	666	794	639
	Total	1,702	2,321	2,548	2,075

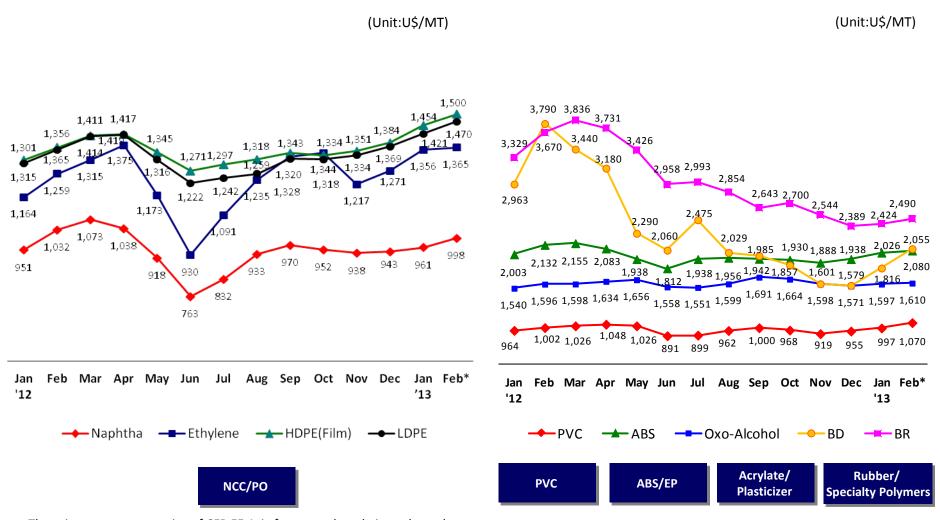


Quarterly Price Trends



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





- The prices are average price of CFR FE Asia for general grade in each product group.
- * Shows the prices on Feb 22, 2013

Appendix

Global Position of Key Products

As of Mar, 2013

Petro-	
Chemical	S

ltem	Location	Сара	Global Rank	Capa Addition('13)
ABS (Acrylonitrile-Butadiene-Styrene)	Korea, China	1,390 KMT/Yr	1st*	
PVC (Polyvinyl Chloride)	Korea, China	1,270 KMT/Yr	6th	
Oxo-Alcohol	Korea (Yeosu, Naju)	299 KMT/Yr	10th	
AA (Acrylic Acid)	Korea (Yeosu, Naju)	353 KMT/Yr	6th	
PC (Polycarbonate)	Korea (Yeosu)	170 KMT/Yr	6th	
BR (Butadiene Rubber)	Korea (Daesan)	180 KMT/Yr	7th	
Elastomer	Korea (Daesan)	85 KMT/Yr	4th	
SAP (Super Absorbent Polymer)	Korea (Gimcheon, Yeosu)	180 KMT/Yr	6th	
MBS (Methacrylate-Butadiene-Styrene)	Korea (Yeosu)	50 KMT/Yr	4th	
NBL (Acrylonitrile-Butadiene-Latex)	Korea (Yeosu)	100 KMT/Yr	2nd	
BPA (Bisphenol A)	Korea (Yeosu)	450 KMT/Yr	5th	[150 KMT/Yr added on Jan]
Polarizer	Korea (Ochang)	128 mn m²/Yr	1st	
Consumer Battery (Lithium-ion)	Korea (Ochang)	88 mn cells/Month**	3rd	[10 mn of Polymer add on '13]
EV/HEV Battery (Lithium-ion)	Korea (Ochang)	130K Units/Yr***	1st	
Color Filter Photoresists	Korea (Ochang)	-	2nd	
3D FPR	Korea (Ochang)	-	1st	[2nd line add on 2Q13]

I & E
Materials /
Energy
Solution

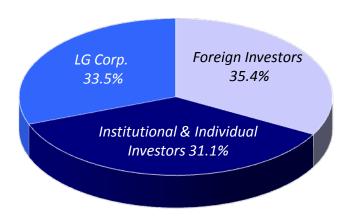


[★] Actual Sales Base

^{**} Cylindrical: 41 mn, Prismatic: 30 mn, Polymer: 17 mn

^{***} Convert to GM 'VOLT' base

Shareholders & Market Cap



Common Stock as of Jan 31, 2013

(Unit: KRW)

			(,	
	No. of	Jan 31, '13		
	Shares	Price	Market Cap	
Common	66,271,100	304,500	20.8 tn	
Preferred	7,628,921	96,700	0.7 tn	
Total	73,900,021		21.5 tn	

Par value: KRW 5,000

Dividends

		(,		
Classification	'11	'12	Change	
Net Income	2,170	1,510	-30.41%	
EPS(KRW)	29,360	20,384	-30.57%	
Total Dividends	295 295	295	0	
Dividend Payout Ratio	14.5%	20.4%	+5.9%p	
Common Stock Price at year-end(KRW)	317,500	330,000	+12,500	
Dividend Yield Ratio	1.3%	1.2%	-0.1%p	

^{*} Dividend of KRW 4,000 per common share

