# COMPANY UPDATE Marico (MRCO.BO)

## Buy

Equity Research

# High input costs to pressure margins, volumes intact; Retain Buy

## What's changed

Marico issued an update post market on Sept 14, warning that consensus operating margin estimates for FY12E were unlikely to be met by the company given: (1) input costs, which remain high; (2) the fragile demand environment given recent events in the global economy; and (3) recent accounting changes in Kaya and the international business. The company has stated a preference for maintaining volume growth at the cost of margins over the near term by not taking any further price increases.

### Implications

We believe that volume growth and margin expansion are unlikely to coexist for the Indian FMCG sector given high input costs and slowing economic growth. While we had forecast a decline in margins for FY12E, we are further reducing our EBITDA margin estimates to 11.8% from 12.8% to reflect input costs and cut our FY12E-FY14E EPS estimates 6%-7%. We maintain our volume growth forecasts of 10% for the domestic business in FY12E and 18% organic volume growth for the international business.

### Valuation

We retain our Buy rating as we believe medium- to long-term prospects for the company remain intact, with robust domestic volume growth in its franchise brands, improving returns for the international business, and Kaya on track to generating profits following the restructuring of its business. In line with our earnings revisions, we cut our 12-month 25X FY13E EPS-based target price to Rs163 from Rs174. Our target price is also supported by Director's Cut analysis. While at 24.4X FY13E the stock is trading close to our target multiple, we believe it offers the best riskreward potential in our India consumer staples coverage universe.

### Key risks

(1) Change in consumer preferences away from hair oil; (2) sustained input cost pressure; and (3) slower-than-expected turnaround at Kaya.

## INVESTMENT LIST MEMBERSHIP

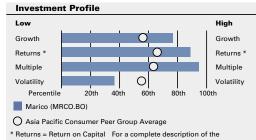
Asia Pacific Buy List

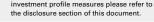
#### **Coverage View: Neutral**

Aditya Soman +91(22)6616-9345 aditya.soman@gs.com Goldman Sachs India SPL

Puneet Jain +91(22)6616-9046 puneet.jain@gs.com Goldman Sachs India SPL

Goldman Sachs does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. For Reg AC see the end of the text. For other important disclosures, see the Disclosure Appendix, or go to www.gs.com/research/hedge.html. Analysts employed by non-US affiliates are not registered/qualified as research analysts with FINRA in the U.S.





Key data				Current	
Price (Rs)				159.15	
12 month price target (Rs) 165					
Market cap (Rs mn / US\$ mn)			96,946.3 / 2,036.9		
Foreign ownership (%)					
	3/11	3/12E	3/13E	3/14E	
EPS (Rs) New	3.87	4.90	6.53	8.07	
EPS revision (%)	0.0	(5.7)	(6.0)	(7.4)	
EPS growth (%)	(2.0)	26.6	33.4	23.4	
EPS (dil) (Rs) New	4.66	4.90	6.53	8.07	

EPS growth (%)	(2.0)	26.6	33.4	23.4
EPS (dil) (Rs) New	4.66	4.90	6.53	8.07
P/E (X)	41.1	32.5	24.4	19.7
P/B (X)	10.7	8.5	6.6	5.2
EV/EBITDA (X)	19.9	21.0	16.2	13.2
Dividend yield (%)	0.4	0.5	0.7	0.9
ROE (%)	36.5	29.0	30.5	29.6
CROCI (%)	30.2	27.1	30.0	31.1



Share price performance (%)	3 month	6 month	12 month		
Absolute	14.2	19.6	27.6		
Rel. to India BSE30 Sensex	25.1	32.0	47.8		
Sauran Campany data Caldman Sanha Banarah antimatan FastSat Brian an af 0/14/2011 alaan					

# **Marico: Summary Financials**

Drafit madel (Damm)	2/11	3/12E	2/12F	2/145	Delense sheet (De ma)	2/11	3/12E	2/125	3/14E
Profit model (Rs mn)	3/11	3/ 12E	3/13E	3/14E	Balance sheet (Rs mn)	3/11	3/ 12E	3/13E	3/ 14E
Total revenue	31,283.1	41,610.1	49,742.7	59,086.2	Cash & equivalents	2,130.9	1,876.6	1,083.1	808.3
Cost of goods sold	(16,179.3)	(22,594.3)	(26,214.4)	(31,020.3)	Accounts receivable	1,879.8	2,280.9	2,726.7	3,238.9
SG&A	(5,763.5)	(7,573.0)	(9,301.9)	(11,049.1)	Inventory	6,011.3	7,531.4	8,738.1	10,340.1
R&D	0.0	0.0	0.0	0.0	Other current assets	2,060.6	2,060.6	2,060.6	2,060.6
Other operating profit/(expense)	(5,242.4)	(6,553.6)	(7,958.8)	(9,453.8)	Total current assets	12,082.7	13,749.5	14,608.6	16,447.9
EBITDA	4,097.9	4,889.2	6,267.6	7,563.0	Net PP&E	3,409.7	4,117.1	4,962.7	5,967.2
Depreciation & amortization	(708.0)	(957.0)	(1,144.1)	(1,359.0)	Net intangibles	3,976.0	3,976.0	3,976.0	3,976.0
EBIT	3,389.9	3,932.2	5,123.5	6,204.1	Total investments	891.6	1,691.6	2,491.6	3,291.6
Interest income	162.3	160.3	118.4	75.7	Other long-term assets	1,788.9	1,788.9	1,788.9	1,788.9
Interest expense	(393.3)	(433.1)	(343.1)	(223.1)	Total assets	22,148.9	25,323.1	27,827.8	31,471.6
Income/(loss) from uncons. subs.	0.0	0.0	0.0	0.0					
Others	148.0	162.8	179.1	197.0	Accounts payable	4,104.6	5,571.2	6,463.8	7,648.8
Pretax profits	3,275.3	3,822.2	5,077.9	6,253.6	Short-term debt	0.0	0.0	0.0	0.0
Income tax	(849.9)	(764.4)	(1,015.6)	(1,250.7)	Other current liabilities	952.3	1,252.2	1,652.4	2,146.4
Minorities	(50.1)	(50.1)	(50.1)	(50.1)	Total current liabilities	5,056.9	6,823.4	8,116.3	9,795.2
					Long-term debt	7,718.2	6,718.2	4,718.2	2,718.2
Net income pre-preferred dividends	2,375.3	3,007.6	4,012.2	4,952.8	Other long-term liabilities	0.0	0.0	0.0	0.0
Preferred dividends	0.0	0.0	0.0	0.0	Total long-term liabilities	7,718.2	6,718.2	4,718.2	2,718.2
Net income (pre-exceptionals)	2,375.3	3,007.6	4,012.2	4,952.8	Total liabilities	12,775.1	13,541.7	12,834.5	12,513.5
Post-tax exceptionals	489.1	0.0	0.0	0.0					
Net income	2,864.4	3,007.6	4,012.2	4,952.8	Preferred shares	0.0	0.0	0.0	0.0
					Total common equity	9,154.9	11,562.6	14,774.4	18,739.3
EPS (basic, pre-except) (Rs)	3.87	4.90	6.53	8.07	Minority interest	218.9	218.9	218.9	218.9
EPS (basic, post-except) (Rs)	4.66	4.90	6.53	8.07					
EPS (diluted, post-except) (Rs)	4.66	4.90	6.53	8.07	Total liabilities & equity	22,148.9	25,323.1	27,827.8	31,471.6
DPS (Rs)	0.66	0.84	1.11	1.38					
Dividend payout ratio (%)	14.1	17.1	17.1	17.1	BVPS (Rs)	14.91	18.83	24.06	30.52
Free cash flow yield (%)	1.3	2.1	2.6	3.2					
Growth & margins (%)	3/11	3/12E	3/13E	3/14E	Ratios	3/11	3/12E	3/13E	3/14E
Sales growth	17.6	33.0	19.5	18.8	CROCI (%)	30.2	27.1	30.0	31.1
EBITDA growth	9.2	19.3	28.2	20.7	ROE (%)	36.5	29.0	30.5	29.6
EBIT growth	7.6	16.0	30.3	21.1	ROA (%)	15.3	12.7	15.1	16.7
Net income growth	23.6	5.0	33.4	23.4	ROACE (%)	20.8	20.7	24.1	25.9
EPS growth	22.7	5.0	33.4	23.4	Inventory days	118.0	109.4	113.3	112.2
Gross margin	48.3	45.7	47.3	47.5	Receivables days	19.8	18.2	18.4	18.4
EBITDA margin	13.1	11.8	12.6	12.8	Payable days	81.2	78.2	83.8	83.0
EBIT margin	10.8	9.5	10.3	10.5	Net debt/equity (%)	59.6	41.1	24.2	10.1
					Interest cover - EBIT (X)	14.7	14.4	22.8	42.1
Cash flow statement (Rs mn)	3/11	3/12E	3/13E	3/14E	Valuation	3/11	3/12E	3/13E	3/14E
Net income pre-preferred dividends	2,375.3	3,007.6	4,012.2	4,952.8	Valuation	3/11	3/ 12L	3/13L	3/ 14L
D&A add-back	708.0	957.0	1,144.1	4,352.8	P/E (analyst) (X)	41.1	32.5	24.4	19.7
Minorities interests add-back	0.0	0.0	0.0	0.0	P/B (X)	10.7	8.5	6.6	5.2
Net (inc)/dec working capital	(1,510.9)	(454.6)	(759.9)	(929.1)	EV/EBITDA (X)	19.9	21.0	16.2	13.2
Other operating cash flow	(696.8)	(577.4)	(885.2)	(1,207.1)	EV/GCI (X)	5.3	6.0	5.2	4.5
Cash flow from operations	2,264.6	3,747.1	4,576.8	5,476.4	Dividend yield (%)	0.4	0.5	0.2	4.0 0.9
	2,20	•,,	1,07 010	0,			0.0		0.0
Capital expenditures	(1,250.0)	(1,664.4)	(1,989.7)	(2,363.4)					
Acquisitions	0.0	0.0	0.0	0.0					
Divestitures	0.0	0.0	0.0	0.0					
Others	(2,572.8)	(604.0)	(637.3)	(670.6)					
Cash flow from investments	(3,822.8)	(2,268.4)	(2,627.0)	(3,034.1)					
Dividende peid (comment % ment)	(000.0)	(200.0)	(400.0)	(404.0)					
Dividends paid (common & pref)	(236.9)	(300.0)	(400.2)	(494.0)					
Inc/(dec) in debt	3,200.0	(1,000.0)	(2,000.0)	(2,000.0)					
Common stock issuance (repurchase)	4.8	0.0	0.0	0.0					
Other financing cash flows	(393.3) 2 574 5	(433.1)	(343.1)	(223.1)					
Cash flow from financing	2,574.5	(1,733.1)	(2,743.3)	(2,717.1)	Newsland	and an adversaria of the state			
Total cash flow	1,016.3	(254.4)	(793.5)	(274.8)	Note: Last actual year may include report				
					Source: Company data, Goldman Sachs F	iesearch estimates.			

### Analyst Contributors

#### Aditya Soman

aditya.soman@gs.com

#### Puneet Jain

puneet.jain@gs.com

# Near-term margin squeeze likely, volume growth intact; Buy

We maintain our Buy rating on Marico. The company appears well placed to deliver robust top-line CAGR of 24% in FY11-FY14E, backed by its flagship brands, Parachute and Saffola. We also expect its international business to provide a boost with sales CAGR of about 27% in FY11-FY14E as recent acquisitions such as ICP in Vietnam gain traction.

## Robust growth of key brands

Parachute and Saffola, Marico's key brands, saw robust sales growth in the past few quarters. The company has taken significant price increases (Exhibit 3) in key brands towards the end of FY11, and we expect it to post robust sales growth, especially in the latter half of FY12 as prices stabilize.

## International business CAGR of 27% between FY11-FY14E

Marico's international business currently contributes about 23% of total revenues, and we expect this proportion to increase to 27% by FY14E. We believe post the recent cycle of investments into this business, margins for the overseas businesses should catch up with those of the domestic business, providing a margin buffer.

## Raw material inflation still high yoy

Prices of key raw materials like copra, rice bran oil and kardi oil remain high on a yoy basis (Exhibit 2), as do the prices of crude-linked packing materials. While this may affect gross margins, particularly in the first half of FY12, we believe Marico increasingly has a margin buffer through its international business as well as through its more premium products 'Parachute Advansed' and 'Saffola Gold'.

## Kaya reporting same-store sales growth

Kaya, a chain of skin clinics run by Marico, has reported same-store sales growth in 1QFY12 and 2HFY11, following a few quarters of same store declines. The company said that it has taken several measures to improve employee motivation and customer retention, in addition to cutting down on costs. Marico also acquired Derma Rx, a skin clinic chain in Singapore, in 2010 and we believe synergies from this business could boost the local business.

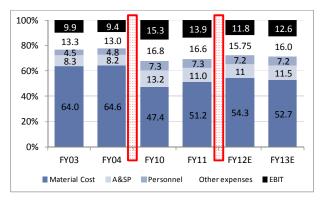
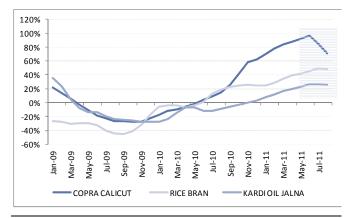


Exhibit 1: We are forecasting lower margins in FY12E-FY13E as compared with FY09-FY10 Marico – margin and cost trend

Source: Company data, Goldman Sachs Research estimates.

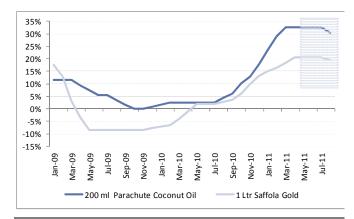
# Exhibit 2: Prices of raw materials high yoy, although strong base effect likely in 2HFY12E

Quarterly rolling raw material price movement (yoy)



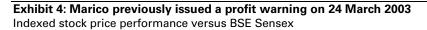
# Exhibit 3: Marico has taken price increases to partially offset raw material increases

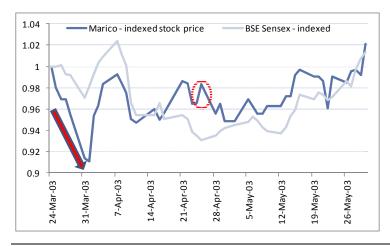
Quarterly rolling selling price movement (yoy)



Source: Company data, Goldman Sachs Research.

Although the circumstances were entirely different, Marico previously issued a profit warning after the market close on March 24, 2003, warning about lower turnover and profits in 4QFY03. Consequently, the company reported a EBITDA decline but flattish turnover and revenues on April 21, 2003. In the exhibit below we highlight the stock performance during this period relative to the Sensex.





Source: Company data, Datastream, Goldman Sachs Research.

Source: Company data, Goldman Sachs Research.

# Reg AC

I, Aditya Soman, hereby certify that all of the views expressed in this report accurately reflect my personal views about the subject company or companies and its or their securities. I also certify that no part of my compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed in this report.

# **Investment Profile**

The Goldman Sachs Investment Profile provides investment context for a security by comparing key attributes of that security to its peer group and market. The four key attributes depicted are: growth, returns, multiple and volatility. Growth, returns and multiple are indexed based on composites of several methodologies to determine the stocks percentile ranking within the region's coverage universe.

The precise calculation of each metric may vary depending on the fiscal year, industry and region but the standard approach is as follows:

**Growth** is a composite of next year's estimate over current year's estimate, e.g. EPS, EBITDA, Revenue. **Return** is a year one prospective aggregate of various return on capital measures, e.g. CROCI, ROACE, and ROE. **Multiple** is a composite of one-year forward valuation ratios, e.g. P/E, dividend yield, EV/FCF, EV/EBITDA, EV/DACF, Price/Book. **Volatility** is measured as trailing twelve-month volatility adjusted for dividends.

# Quantum

Quantum is Goldman Sachs' proprietary database providing access to detailed financial statement histories, forecasts and ratios. It can be used for in-depth analysis of a single company, or to make comparisons between companies in different sectors and markets.

# **GS SUSTAIN**

GS SUSTAIN is a global investment strategy aimed at long-term, long-only performance with a low turnover of ideas. The GS SUSTAIN focus list includes leaders our analysis shows to be well positioned to deliver long term outperformance through sustained competitive advantage and superior returns on capital relative to their global industry peers. Leaders are identified based on quantifiable analysis of three aspects of corporate performance: cash return on cash invested, industry positioning and management quality (the effectiveness of companies' management of the environmental, social and governance issues facing their industry).

# **Disclosure Appendix**

## Coverage group(s) of stocks by primary analyst(s)

Aditya Soman: India Consumer.

India Consumer: Colgate Palmolive (India), Dabur India, Hindustan Unilever, ITC, Marico, Nestle India.

### **Company-specific regulatory disclosures**

The following disclosures relate to relationships between The Goldman Sachs Group, Inc. (with its affiliates, "Goldman Sachs") and companies covered by the Global Investment Research Division of Goldman Sachs and referred to in this research.

Goldman Sachs expects to receive or intends to seek compensation for investment banking services in the next 3 months: Marico (Rs159.15)

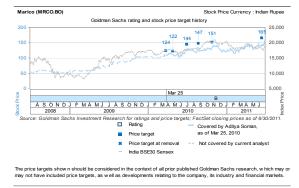
### Distribution of ratings/investment banking relationships

Goldman Sachs Investment Research global coverage universe

	Rating Distribution			Investme	Investment Banking Relationships		
	Buy	Hold	Sell	Buy	Hold	Sell	
Global	32%	54%	14%	52%	41%	37%	

As of July 1, 2011, Goldman Sachs Global Investment Research had investment ratings on 3,167 equity securities. Goldman Sachs assigns stocks as Buys and Sells on various regional Investment Lists; stocks not so assigned are deemed Neutral. Such assignments equate to Buy, Hold and Sell for the purposes of the above disclosure required by NASD/NYSE rules. See 'Ratings, Coverage groups and views and related definitions' below.

### Price target and rating history chart(s)



### **Regulatory disclosures**

### **Disclosures required by United States laws and regulations**

See company-specific regulatory disclosures above for any of the following disclosures required as to companies referred to in this report: manager or co-manager in a pending transaction; 1% or other ownership; compensation for certain services; types of client relationships; managed/co-managed public offerings in prior periods; directorships; for equity securities, market making and/or specialist role. Goldman Sachs usually makes a market in fixed income securities of issuers discussed in this report and usually deals as a principal in these securities.

The following are additional required disclosures: **Ownership and material conflicts of interest**: Goldman Sachs policy prohibits its analysts, professionals reporting to analysts and members of their households from owning securities of any company in the analyst's area of coverage. **Analyst compensation**: Analysts are paid in part based on the profitability of Goldman Sachs, which includes investment banking revenues. **Analyst as officer or director**: Goldman Sachs policy prohibits its analysts, persons reporting to analysts or members of their households from serving as an officer, director, advisory board member or employee of any company in the analyst's area of coverage. **Non-U.S. Analysts**: Non-U.S. analysts may not be associated persons of Goldman Sachs & Co. and therefore may not be subject to NASD Rule 2711/NYSE Rules 472 restrictions on communications with subject company, public appearances and trading securities held by the analysts.

**Distribution of ratings:** See the distribution of ratings disclosure above. **Price chart:** See the price chart, with changes of ratings and price targets in prior periods, above, or, if electronic format or if with respect to multiple companies which are the subject of this report, on the Goldman Sachs website at http://www.gs.com/research/hedge.html.

# Additional disclosures required under the laws and regulations of jurisdictions other than the United States

The following disclosures are those required by the jurisdiction indicated, except to the extent already made above pursuant to United States laws and regulations. Australia: This research, and any access to it, is intended only for "wholesale clients" within the meaning of the Australian Corporations Act. Brazil: Disclosure information in relation to CVM Instruction 483 is available at http://www.gs.com/worldwide/brazil/gir/index.html. Where applicable, the Brazil-registered analyst primarily responsible for the content of this research report, as defined in Article 16 of CVM Instruction 483, is the first author named at the beginning of this report, unless indicated otherwise at the end of the text. Canada: Goldman Sachs & Co. has approved of, and agreed to take responsibility for, this research in Canada if and to the extent it relates to equity securities of Canadian issuers. Analysts may conduct site visits but are prohibited from accepting payment or reimbursement by the company of travel expenses for such visits. Hong Kong: Further information on the securities of covered companies referred to in this research may be obtained on request from Goldman Sachs (Asia) L.L.C. India: Further information on the subject company or companies referred to in this research may be obtained from Goldman Sachs (India) Securities Private Limited; Japan: See below. Korea: Further information on the subject company or companies referred to in this research may be obtained from Goldman Sachs (Asia) L.L.C., Seoul Branch. Russia: Research reports distributed in the Russian Federation are not advertising as defined in the Russian legislation, but are information and analysis not having product promotion as their main purpose and do not provide appraisal within the meaning of the Russian legislation on appraisal activity. Singapore: Further information on the covered companies referred to in this research may be obtained from Goldman Sachs (Singapore) Pte. (Company Number: 198602165W). Taiwan: This material is for reference only and must not be reprinted without permission. Investors should carefully consider their own investment risk. Investment results are the responsibility of the individual investor. United Kingdom: Persons who would be categorized as retail clients in the United Kingdom, as such term is defined in the rules of the Financial Services Authority, should read this research in conjunction with prior Goldman Sachs research on the covered companies referred to herein and should refer to the risk warnings that have been sent to them by Goldman Sachs International. A copy of these risks warnings, and a glossary of certain financial terms used in this report, are available from Goldman Sachs International on request.

**European Union:** Disclosure information in relation to Article 4 (1) (d) and Article 6 (2) of the European Commission Directive 2003/126/EC is available at http://www.gs.com/client\_services/global\_investment\_research/europeanpolicy.html which states the European Policy for Managing Conflicts of Interest in Connection with Investment Research.

Japan: Goldman Sachs Japan Co., Ltd. is a Financial Instrument Dealer under the Financial Instrument and Exchange Law, registered with the Kanto Financial Bureau (Registration No. 69), and is a member of Japan Securities Dealers Association (JSDA) and Financial Futures Association of Japan (FFAJ). Sales and purchase of equities are subject to commission pre-determined with clients plus consumption tax. See company-specific disclosures as to any applicable disclosures required by Japanese stock exchanges, the Japanese Securities Dealers Association or the Japanese Securities Finance Company.

### Ratings, coverage groups and views and related definitions

Buy (B), Neutral (N), Sell (S) -Analysts recommend stocks as Buys or Sells for inclusion on various regional Investment Lists. Being assigned a Buy or Sell on an Investment List is determined by a stock's return potential relative to its coverage group as described below. Any stock not assigned as a Buy or a Sell on an Investment List is determed Neutral. Each regional Investment Review Committee manages various regional Investment Lists to a global guideline of 25%-35% of stocks as Buy and 10%-15% of stocks as Sell; however, the distribution of Buys and Sells in any particular

coverage group may vary as determined by the regional Investment Review Committee. Regional Conviction Buy and Sell lists represent investment recommendations focused on either the size of the potential return or the likelihood of the realization of the return.

**Return potential** represents the price differential between the current share price and the price target expected during the time horizon associated with the price target. Price targets are required for all covered stocks. The return potential, price target and associated time horizon are stated in each report adding or reiterating an Investment List membership.

**Coverage groups and views:** A list of all stocks in each coverage group is available by primary analyst, stock and coverage group at http://www.gs.com/research/hedge.html. The analyst assigns one of the following coverage views which represents the analyst's investment outlook on the coverage group relative to the group's historical fundamentals and/or valuation. **Attractive (A)**. The investment outlook over the following 12 months is favorable relative to the coverage group's historical fundamentals and/or valuation. **Neutral (N)**. The investment outlook over the following 12 months is neutral relative to the coverage group's historical fundamentals and/or valuation. **Cautious (C)**. The investment outlook over the following 12 months is unfavorable relative to the coverage group's historical fundamentals and/or valuation.

Not Rated (NR). The investment rating and target price have been removed pursuant to Goldman Sachs policy when Goldman Sachs is acting in an advisory capacity in a merger or strategic transaction involving this company and in certain other circumstances. **Rating Suspended (RS)**. Goldman Sachs Research has suspended the investment rating and price target for this stock, because there is not a sufficient fundamental basis for determining, or there are legal, regulatory or policy constraints around publishing, an investment rating or target. The previous investment rating and price target, if any, are no longer in effect for this stock and should not be relied upon. **Coverage Suspended (CS)**. Goldman Sachs has suspended coverage of this company. **Not Covered (NC)**. Goldman Sachs does not cover this company. **Not Available or Not Applicable (NA)**. The information is not available for display or is not applicable. **Not Meaningful (NM)**. The information is not meaningful and is therefore excluded.

### **Global product; distributing entities**

The Global Investment Research Division of Goldman Sachs produces and distributes research products for clients of Goldman Sachs, and pursuant to certain contractual arrangements, on a global basis. Analysts based in Goldman Sachs offices around the world produce equity research on industries and companies, and research on macroeconomics, currencies, commodities and portfolio strategy. This research is disseminated in Australia by Goldman Sachs & Partners Australia Pty Ltd (ABN 21 006 797 897) on behalf of Goldman Sachs; in Brazil by Goldman Sachs do Brasil Banco Múltiplo S.A.; in Canada by Goldman Sachs & Co. regarding Canadian equities and by Goldman Sachs & Co. (all other research); in Hong Kong by Goldman Sachs (Asia) L.L.C.; in India by Goldman Sachs (India) Securities Private Ltd.; in Japan by Goldman Sachs Japan Co., Ltd.; in the Republic of Korea by Goldman Sachs (Asia) L.L.C., Seoul Branch; in New Zealand by Goldman Sachs & Partners New Zealand Limited on behalf of Goldman Sachs; in Russia by OOO Goldman Sachs; in Singapore by Goldman Sachs (Singapore) Pte. (Company Number: 198602165W); and in the United States of America by Goldman Sachs & Co. Goldman Sachs International has approved this research in connection with its distribution in the United Kingdom and European Union.

**European Union:** Goldman Sachs International, authorized and regulated by the Financial Services Authority, has approved this research in connection with its distribution in the European Union and United Kingdom; Goldman Sachs AG, regulated by the Bundesanstalt für Finanzdienstleistungsaufsicht, may also distribute research in Germany.

### **General disclosures**

This research is for our clients only. Other than disclosures relating to Goldman Sachs, this research is based on current public information that we consider reliable, but we do not represent it is accurate or complete, and it should not be relied on as such. We seek to update our research as appropriate, but various regulations may prevent us from doing so. Other than certain industry reports published on a periodic basis, the large majority of reports are published at irregular intervals as appropriate in the analyst's judgment.

Goldman Sachs conducts a global full-service, integrated investment banking, investment management, and brokerage business. We have investment banking and other business relationships with a substantial percentage of the companies covered by our Global Investment Research Division. Goldman Sachs & Co., the United States broker dealer, is a member of SIPC (http://www.sipc.org).

Our salespeople, traders, and other professionals may provide oral or written market commentary or trading strategies to our clients and our proprietary trading desks that reflect opinions that are contrary to the opinions expressed in this research. Our asset management area, our proprietary trading desks and investing businesses may make investment decisions that are inconsistent with the recommendations or views expressed in this research.

The analysts named in this report may have from time to time discussed with our clients, including Goldman Sachs salespersons and traders, or may discuss in this report, trading strategies that reference catalysts or events that may have a near-term impact on the market price of the equity securities discussed in this report, which impact may be directionally counter to the analysts' published price target expectations for such stocks. Any such trading strategies are distinct from and do not affect the analysts' fundamental equity rating for such stocks, which rating reflects a stock's return potential relative to its coverage group as described herein.

We and our affiliates, officers, directors, and employees, excluding equity and credit analysts, will from time to time have long or short positions in, act as principal in, and buy or sell, the securities or derivatives, if any, referred to in this research.

This research is not an offer to sell or the solicitation of an offer to buy any security in any jurisdiction where such an offer or solicitation would be illegal. It does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. Clients should consider whether any advice or recommendation in this research is suitable for their particular circumstances and, if appropriate, seek professional advice, including tax advice. The price and value of investments referred to in this research and the income from them may fluctuate. Past performance is not a guide to future performance, future returns are not guaranteed, and a loss of original capital may occur. Fluctuations in exchange rates could have adverse effects on the value or price of, or income derived from, certain investments.

Certain transactions, including those involving futures, options, and other derivatives, give rise to substantial risk and are not suitable for all investors. Investors should review current options disclosure documents which are available from Goldman Sachs sales representatives or at http://www.theocc.com/about/publications/character-risks.jsp. Transactions cost may be significant in option strategies calling for multiple purchase and sales of options such as spreads. Supporting documentation will be supplied upon request.

All research reports are disseminated and available to all clients simultaneously through electronic publication to our internal client websites. Not all research content is redistributed to our clients or available to third-party aggregators, nor is Goldman Sachs responsible for the redistribution of our research by third party aggregators. For all research available on a particular stock, please contact your sales representative or go to http://360.gs.com.

Disclosure information is also available at http://www.gs.com/research/hedge.html or from Research Compliance, 200 West Street, New York, NY 10282.

#### Copyright 2011 Goldman Sachs.

No part of this material may be (i) copied, photocopied or duplicated in any form by any means or (ii) redistributed without the prior written consent of The Goldman Sachs Group, Inc.