

## Company

30 July 2009 | 9 pages

# Reliance Infrastructure (RLIN.BO)

 Equity 

## Buy: 1QFY10 Recurring PAT up 42% YoY

- Recurring PAT up 42% YoY** — At Rs3.2bn, PAT was 11% below CIRA estimates but well ahead of full year growth expectations of 18% YoY. PAT was below expectations on lower than expected execution on the EPC side and higher-than-expected other expenditure. Operational results were decent, with EBITDA growing 34% YoY, but unallocable income of Rs2.0bn vs. Rs190m of unallocable cost in the previous year in the segmental results is hard to explain.
- Rs50.5bn of Rs90.9bn in cash/debt funds** — According to management the company had Rs90.9bn (Rs100bn end FY09) of cash/cash equivalent. Of this, Rs50.5bn (Rs54bn end FY09) is in cash/debt funds. Promoters subscribed to 42.9m warrants, convertible into equity for further capital infusion of ~Rs43bn. Total debt on the books is Rs61.6bn.
- Rs10.34bn+ of regulatory assets is a worry** — In FY09 the company had created regulatory assets of 10.34bn (Rs3.56bn because of a revenue gap and Rs6.78bn because of unrecovered fuel adjustment charges). This likely has to be recovered through future tariff orders and is a key concern. We believe more regulatory asset would have been created in 1QFY10.
- Update on buyback** — The shareholders of the company had approved a buyback of Rs20bn. Till end FY09 the company has bought back 11.26m shares at an average price of ~Rs823 totalling to Rs9.27bn. The company has bought back additional 0.75m shares in 1QFY10 which has reduced the current outstanding share count to 225.27m.

<b>Buy/Medium Risk</b>	<b>1M</b>
Price (30 Jul 09)	Rs1,185.10
Target price	Rs1,535.00
Expected share price return	29.5%
Expected dividend yield	0.6%
<b>Expected total return</b>	<b>30.1%</b>
Market Cap	Rs266,968M
	US\$5,530M

### Price Performance (RIC: RLIN.BO, BB: RELI IN)



### Statistical Abstract

Year to	Net Profit	Diluted EPS	EPS growth	P/E	P/B	ROE	Yield
31 Mar	(RsM)	(Rs)	(%)	(x)	(x)	(%)	(%)
2007A	7,503	31.84	2.7	37.2	3.1	9.5	0.4
2008A	9,913	42.07	32.1	28.2	2.5	10.1	0.5
2009E	10,665	47.10	11.9	25.2	2.4	9.5	0.6
2010E	12,558	55.46	17.7	21.4	2.2	10.6	0.7
2011E	14,739	65.09	17.4	18.2	2.0	11.4	0.8

Source: Powered by dataCentral

### Venkatesh Balasubramaniam

 +91-22-6631-9864  
 venkatesh.balasubramaniam@citi.com

### Deepal Delivala

 +91-22-6631-9857  
 deepal.delivala@citi.com

### Atul Tiwari

 +91-22-6631-9866  
 atul.tiwari@citi.com

See Appendix A-1 for Analyst Certification and important disclosures.

Citi Investment Research & Analysis is a division of Citigroup Global Markets Inc. (the "Firm"), which 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.

Fiscal year end 31-Mar	2007	2008	2009E	2010E	2011E
<b>Valuation Ratios</b>					
P/E adjusted (x)	37.2	28.2	25.2	21.4	18.2
EV/EBITDA adjusted (x)	53.6	48.8	30.3	21.6	18.9
P/BV (x)	3.1	2.5	2.4	2.2	2.0
Dividend yield (%)	0.4	0.5	0.6	0.7	0.8
<b>Per Share Data (Rs)</b>					
EPS adjusted	31.84	42.07	47.10	55.46	65.09
EPS reported	34.01	46.03	50.29	55.46	65.09
BVPS	378.06	468.69	499.81	545.90	600.46
DPS	5.30	6.30	7.00	8.00	9.00
<b>Profit &amp; Loss (RsM)</b>					
Net sales	57,100	63,643	96,749	128,322	151,160
Operating expenses	-54,526	-60,407	-91,376	-120,494	-142,396
<b>EBIT</b>	<b>2,574</b>	<b>3,235</b>	<b>5,373</b>	<b>7,828</b>	<b>8,764</b>
Net interest expense	-2,503	-3,088	-3,305	-4,766	-4,766
Non-operating/exceptionals	8,653	11,370	9,866	11,540	13,140
<b>Pre-tax profit</b>	<b>8,724</b>	<b>11,517</b>	<b>11,934</b>	<b>14,602</b>	<b>17,138</b>
Tax	-1,221	-1,604	-1,269	-2,044	-2,399
Extraord./Min.Int./Pref.div.	511	933	723	0	0
<b>Reported net income</b>	<b>8,015</b>	<b>10,846</b>	<b>11,389</b>	<b>12,558</b>	<b>14,739</b>
Adjusted earnings	7,503	9,913	10,665	12,558	14,739
Adjusted EBITDA	4,975	5,465	7,822	10,411	11,471
<b>Growth Rates (%)</b>					
Sales	41.6	11.5	52.0	32.6	17.8
EBIT adjusted	-35.5	25.7	66.1	45.7	12.0
EBITDA adjusted	-33.5	9.8	43.1	33.1	10.2
EPS adjusted	2.7	32.1	11.9	17.7	17.4
<b>Cash Flow (RsM)</b>					
<b>Operating cash flow</b>	<b>-39,441</b>	<b>34,301</b>	<b>30,308</b>	<b>11,513</b>	<b>17,078</b>
Depreciation/amortization	2,401	2,229	2,449	2,583	2,707
Net working capital	-50,129	21,053	16,471	-3,628	-368
<b>Investing cash flow</b>	<b>-18,441</b>	<b>-59,618</b>	<b>-35,677</b>	<b>-3,000</b>	<b>-3,000</b>
Capital expenditure	-5,250	-8,093	-3,500	-3,000	-3,000
Acquisitions/disposals	-13,191	-51,525	-32,177	0	0
<b>Financing cash flow</b>	<b>23,112</b>	<b>4,434</b>	<b>14,811</b>	<b>-2,097</b>	<b>-2,360</b>
Borrowings	15,914	-8,694	23,431	0	0
Dividends paid	-1,417	-1,728	-1,855	-2,120	-2,385
<b>Change in cash</b>	<b>-34,770</b>	<b>-20,883</b>	<b>9,442</b>	<b>6,416</b>	<b>11,718</b>
<b>Balance Sheet (RsM)</b>					
<b>Total assets</b>	<b>177,327</b>	<b>196,786</b>	<b>227,889</b>	<b>238,675</b>	<b>252,177</b>
Cash & cash equivalent	21,759	876	10,318	16,734	28,451
Accounts receivable	10,564	13,514	30,884	32,418	32,097
Net fixed assets	24,064	29,928	30,979	31,396	31,689
<b>Total liabilities</b>	<b>90,914</b>	<b>86,353</b>	<b>114,708</b>	<b>115,055</b>	<b>116,204</b>
Accounts payable	11,607	11,069	17,127	15,553	15,158
Total Debt	58,583	49,889	73,320	73,320	73,320
<b>Shareholders' funds</b>	<b>86,413</b>	<b>110,433</b>	<b>113,181</b>	<b>123,619</b>	<b>135,974</b>
<b>Profitability/Solvency Ratios (%)</b>					
EBITDA margin adjusted	8.7	8.6	8.1	8.1	7.6
ROE adjusted	9.5	10.1	9.5	10.6	11.4
ROIC adjusted	1.7	1.6	4.8	7.4	7.8
Net debt to equity	42.6	44.4	55.7	45.8	33.0
Total debt to capital	40.4	31.1	39.3	37.2	35.0

For further data queries on Citi's full coverage universe please contact CIR Data Services Asia Pacific at CIRDataServicesAsiaPacific@citi.com or +852-2501-2791



Figure 1. R-Infra 1QFY10 Results

Year End Mar31 (Rs mn)	1QFY09	1QFY10	% Chg	1QFY10E - Remarks
EPC Order Backlog	210,440	200,750	-5%	
Generation (mu)	1,486	1,628	10%	1,493 - On higher generation in Dahanu and Samalkot
Power Purchased (mu)	1,449	1,544	7%	1,530
Sales (mu)	2,539	2,761	9%	2,615
Realization (Rs/kwh)	6.95	6.72	-3%	6.53
Purchase Cost (Rs/kwh)	7.47	6.38	-15%	6.00
Fuel Cost (Rs/kwh)	2.00	1.99	-1%	1.66
<b>Net Sales-Sale of Electrical Energy</b>	<b>17,637</b>	<b>18,553</b>	<b>5%</b>	<b>17,085</b>
Income from EPC	4,344	5,519	27%	8,000 - Execution has been poor in 1QFY10
<b>Total Income</b>	<b>21,981</b>	<b>24,072</b>	<b>10%</b>	<b>25,085</b>
Cost of Purchases	10,823	9,848		9,176
% of electricity sales	61.4%	53.1%		53.7%
Cost of Fuel	2,968	3,234		2,473 - Higher cost of fuel
% of electricity sales	16.8%	17.4%		14.5%
Materials & Direct expenses	3,571	4,407		6,400
% of EPC Income	82.2%	79.9%		80.0%
Surcharge on Generation	370	423		380
% of electricity sales	2.1%	2.3%		2.2%
Staff Cost	1,245	1,549		1,560
% of total sales	5.7%	6.4%		6.2%
Other Expenses	1,067	2,006		1,200 - Higher than expected
% of total sales	4.9%	8.3%		4.8%
<b>Total Expenditure</b>	<b>20,045</b>	<b>21,468</b>	<b>7%</b>	<b>21,189</b>
<b>EBITDA</b>	<b>1,937</b>	<b>2,604</b>	<b>34%</b>	<b>3,896</b>
<b>% margin</b>	<b>8.8%</b>	<b>10.8%</b>		<b>15.5%</b>
Interest	(774)	(1,037)		(1,100)
Depreciation	(612)	(722)		(710)
Other Income	1,869	2,442		1,800 - Higher than expected
Derivatives Loss	(766)	-		-
Other Operational Income	922	391		300
<b>PBT</b>	<b>2,575</b>	<b>3,678</b>	<b>43%</b>	<b>4,186</b>
Provision for Taxation	(300)	(530)		
Provision for deferred Tax	(25)	32		
FBT	(15)	(15)		
<b>Total Tax</b>	<b>(340)</b>	<b>(513)</b>		<b>(628)</b>
Tax Rate (%)	13.2%	13.9%		15.0%
<b>Recurring PAT</b>	<b>2,235</b>	<b>3,166</b>	<b>42%</b>	<b>3,558</b> - 11% below estimates - But well ahead of full year expected growth of 17 - 20%
Tax adjustment for previous years	291	-		-11.0%
<b>Reported PAT</b>	<b>2,526</b>	<b>3,166</b>	<b>25%</b>	<b>3,558</b>

Source: Company reports and Citi Investment Research and Analysis

Figure 2. R-Infra 1QFY10 Segmental Results

Year End Mar31 (Rs mn)	1QFY09	1QFY10	% Chg
Electrical energy	18,464	18,805	2%
EPC and Contracts	4,439	5,658	27%
<b>Gross</b>	<b>22,903</b>	<b>24,463</b>	<b>7%</b>
<b>PBIT</b>			
Electrical energy	1,874	1,769	-6%
EPC and Contracts	474	541	14%
<b>Total</b>	<b>2,348</b>	<b>2,310</b>	<b>-2%</b>
Interest and Finance Expense	(774)	(1,037)	
Interest Income	1,191	367	
Other unallocable income	(190)	2,038	
PBT	2,575	3,678	43%
<b>PBIT Margins</b>			
Electrical energy	10.1%	9.4%	
EPC and Contracts	10.7%	9.6%	
<b>Total</b>	<b>10.3%</b>	<b>9.4%</b>	

Source: Company reports and Citi Investment Research and Analysis

# Reliance Infrastructure

## Company description

Reliance Energy (RELE) became Reliance Infrastructure (R-Infra) as it has forayed aggressively into the infrastructure business over the past 2.5 years: Projects include: 1) EPC player with Rs90.5bn order book; 2) Power transmission infrastructure developer including the Western Region Strengthening System (WRSS), the only 100%-owned power transmission project developed by a private player; 3) Metro rail project developer with 12km VAG corridor in Mumbai and 22.7 km airport link in Delhi; 4) 562km of highway projects; 5) L1 bidder to construct the 25-km-long bridge over sea link (MTHL) in Mumbai. RI is also constructing a 100-storey corporate park in Hyderabad with plans to set up SEZs in Noida and Mumbai and is in advanced stages of bidding for several metro, airports, highway and energy distribution projects. Further it has re-structured into six verticals: to provide clarity about the holding structure and to facilitate fundraising below the holding company level, either through private equity placement or an initial public offering (IPO).

## Investment strategy

We rate R-Infra Buy/Medium Risk (1M) with a target price of Rs1,535. Our assumptions about sales growth in the EPC business, equity IRRs in the road projects, equity IRRs in transmission projects, and equity IRRs in the metro projects are conservative vis-à-vis management expectations. We believe our assumptions adequately factor in: 1) execution risks, 2) capital risks, 3) interest-rate risks, and 4) de-rating of sectors in which RI operates given market conditions. Recently, the company: 1) successfully IPOed Reliance Power; 2) initiated a share buyback programme; and 3) re-named and restructured RELE as R-Infra. In addition, recent disclosures and seriousness evident in the recent analyst meeting for R-Infra/R-Power has forced a re-examination. Interaction with senior/middle/junior management has given us confidence to undertake a detailed valuation exercise of each of its entities. We see Reliance Infrastructure as "An Infrastructure Goliath in the Making".

## Valuation

Our 12-month SOTP target price for R-Infra of Rs1,535 is composed of: 1) EPC + Power business using an EV/EBITDA multiple of 10x Sept-2010E; 2) We value the projects in Reliance Infra Ventures using a discounted cash flow (DCF) methodology; 3) We value the Delhi distribution business at a P/Equity Base of 2.0x; and 4) We value the projects in Reliance Power at a 20% discount to discounted cash flow (DCF) value, reflecting the chance of further litigation.

## Risks

We rate R-Infra Medium Risk, which is different from the High Risk rating that our quantitative risk-rating system accords. Our risk rating is higher than that of peers like NTPC, Tata Power and CESC. Key downside risks to our target price are: 1) Execution risks on its infrastructure projects leading to delayed commissioning; 2) Failure to secure fuel supply for incremental power projects; 3) Failure to financially close incremental infrastructure projects; 4) Higher interest rates and market risk premium leading to lower valuations for various infrastructure projects; 5) Right of way and clearance risks; 6) Change in regulatory mechanism; and 7) Hydrology-related risks for the hydel power projects.

# Appendix A-1

## Analyst Certification

Each research analyst(s) principally responsible for the preparation and content of all or any identified portion of this research report hereby certifies that, with respect to each issuer or security or any identified portion of the report with respect to an issuer or security that the research analyst covers in this research report, all of the views expressed in this research report accurately reflect their personal views about those issuer(s) or securities. Each research analyst(s) also certify that no part of their compensation was, is, or will be, directly or indirectly, related to the specific recommendation(s) or view(s) expressed by that research analyst in this research report.

## IMPORTANT DISCLOSURES

### Reliance Infrastructure (RLIN.BO)

#### Ratings and Target Price History

#### Fundamental Research

Analyst: Venkatesh Balasubramaniam



Chart current as of 25 July 2009

	Date	Rating	Target Price	Closing Price
1	16-May-07	*3L	*510.00	505.95
2	12-May-08	*1L	*1,675.00	1,357.05

	Date	Rating	Target Price	Closing Price
3	21-Jul-08	*1M	*1,170.00	860.50
4	16-Jun-09	1M	*1,535.00	1,268.55

\* Indicates change

Rating/target price changes above reflect Eastern Standard Time

Citigroup Global Markets Inc. or its affiliates beneficially owns 1% or more of any class of common equity securities of Reliance Infrastructure. This position reflects information available as of the prior business day.

Citigroup Global Markets Inc. or an affiliate received compensation for products and services other than investment banking services from Reliance Infrastructure in the past 12 months.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as clients, and the services provided were non-investment-banking, securities-related: Reliance Infrastructure.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as clients, and the services provided were non-investment-banking, non-securities-related: Reliance Infrastructure.

Analysts' compensation is determined based upon activities and services intended to benefit the investor clients of Citigroup Global Markets Inc. and its affiliates ("the Firm"). Like all Firm employees, analysts receive compensation that is impacted by overall firm profitability which includes investment banking revenues.

For important disclosures (including copies of historical disclosures) regarding the companies that are the subject of this Citi Investment Research & Analysis product ("the Product"), please contact Citi Investment Research & Analysis, 388 Greenwich Street, 29th Floor, New York, NY, 10013, Attention: Legal/Compliance. In addition, the same important disclosures, with the exception of the Valuation and Risk assessments and historical disclosures, are contained on the Firm's disclosure website at [www.citigroupgeo.com](http://www.citigroupgeo.com). Valuation and Risk assessments can be found in the text of the most recent research note/report regarding the subject company. Historical disclosures (for up to the past three years) will be provided upon request.

#### Citi Investment Research Ratings Distribution

Data current as of 30 Jun 2009

	Buy	Hold	Sell
Citi Investment Research Global Fundamental Coverage	41%	38%	21%
% of companies in each rating category that are investment banking clients	46%	45%	39%

#### Guide to Fundamental Research Investment Ratings:

Citi Investment Research's stock recommendations include a risk rating and an investment rating.

**Risk ratings**, which take into account both price volatility and fundamental criteria, are: Low (L), Medium (M), High (H), and Speculative (S).

**Investment ratings** are a function of Citi Investment Research's expectation of total return (forecast price appreciation and dividend yield within the next 12 months) and risk rating.

For securities in emerging markets (Asia Pacific, Emerging Europe/Middle East/Africa, and Latin America), investment ratings are: Buy (1) (expected total return of 15% or more for Low-Risk stocks, 20% or more for Medium-Risk stocks, 30% or more for High-Risk stocks, and 40% or more for Speculative stocks); Hold (2) (5%-15% for Low-Risk stocks, 10%-20% for Medium-Risk stocks, 15%-30% for High-Risk stocks, and 20%-40% for Speculative stocks); and Sell (3) (5% or less for Low-Risk stocks, 10% or less for Medium-Risk stocks, 15% or less for High-Risk stocks, and 20% or less for Speculative stocks).

Investment ratings are determined by the ranges described above at the time of initiation of coverage, a change in investment and/or risk rating, or a change in target price (subject to limited management discretion). At other times, the expected total returns may fall outside of these ranges because of market price movements and/or

other short-term volatility or trading patterns. Such interim deviations from specified ranges will be permitted but will become subject to review by Research Management. Your decision to buy or sell a security should be based upon your personal investment objectives and should be made only after evaluating the stock's expected performance and risk.

Guide to Corporate Bond Research Credit Opinions and Investment Ratings: Citi Investment Research's corporate bond research issuer publications include a fundamental credit opinion of Improving, Stable or Deteriorating and a complementary risk rating of Low (L), Medium (M), High (H) or Speculative (S) regarding the credit risk of the company featured in the report. The fundamental credit opinion reflects the CIR analyst's opinion of the direction of credit fundamentals of the issuer without respect to securities market vagaries. The fundamental credit opinion is not geared to, but should be viewed in the context of debt ratings issued by major public debt ratings companies such as Moody's Investors Service, Standard and Poor's, and Fitch Ratings. CBR risk ratings are approximately equivalent to the following matrix: Low Risk Triple A to Low Double A; Low to Medium Risk High Single A through High Triple B; Medium to High Risk Mid Triple B through High Double B; High to Speculative Risk Mid Double B and Below. The risk rating element illustrates the analyst's opinion of the relative likelihood of loss of principal when a fixed income security issued by a company is held to maturity, based upon both fundamental and market risk factors. Certain reports published by Citi Investment Research will also include investment ratings on specific issues of companies under coverage which have been assigned fundamental credit opinions and risk ratings. Investment ratings are a function of Citi Investment Research's expectations for total return, relative return (to publicly available Citigroup bond indices performance), and risk rating. These investment ratings are: Buy/Overweight the bond is expected to outperform the relevant Citigroup bond market sector index (Broad Investment Grade, High Yield Market or Emerging Market), performances of which are updated monthly and can be viewed at <http://sd.ny.smb.com/> using the "Indexes" tab; Hold/Neutral Weight the bond is expected to perform in line with the relevant Citigroup bond market sector index; or Sell/Underweight the bond is expected to underperform the relevant sector of the Citigroup indexes.

Non-US research analysts who have prepared this report are not registered/qualified as research analysts with the NYSE and/or NASD. Such research analysts may not be associated persons of the member organization and therefore may not be subject to the NYSE Rule 472 and NASD Rule 2711 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account. The legal entities employing the authors of this report are listed below:

Citigroup Global Markets India Private Limited

Venkatesh Balasubramaniam, Deepal Delivala, Atul Tiwari

---

## OTHER DISCLOSURES

The subject company's share price set out on the front page of this Product is quoted as at 30 July 2009 03:54 PM on the issuer's primary market.

Citigroup Global Markets Inc. and/or its affiliates has a significant financial interest in relation to Reliance Infrastructure. (For an explanation of the determination of significant financial interest, please refer to the policy for managing conflicts of interest which can be found at [www.citigroupgeo.com](http://www.citigroupgeo.com).)

Citigroup Global Markets Inc. or its affiliates beneficially owns 2% or more of any class of common equity securities of Reliance Infrastructure.

For securities recommended in the Product in which the Firm is not a market maker, the Firm is a liquidity provider in the issuers' financial instruments and may act as principal in connection with such transactions. The Firm is a regular issuer of traded financial instruments linked to securities that may have been recommended in the Product. The Firm regularly trades in the securities of the issuer(s) discussed in the Product. The Firm may engage in securities transactions in a manner inconsistent with the Product and, with respect to securities covered by the Product, will buy or sell from customers on a principal basis.

Securities recommended, offered, or sold by the Firm: (i) are not insured by the Federal Deposit Insurance Corporation; (ii) are not deposits or other obligations of any insured depository institution (including Citibank); and (iii) are subject to investment risks, including the possible loss of the principal amount invested. Although information has been obtained from and is based upon sources that the Firm believes to be reliable, we do not guarantee its accuracy and it may be incomplete and condensed. Note, however, that the Firm has taken all reasonable steps to determine the accuracy and completeness of the disclosures made in the Important Disclosures section of the Product. The Firm's research department has received assistance from the subject company(ies) referred to in this Product including, but not limited to, discussions with management of the subject company(ies). Firm policy prohibits research analysts from sending draft research to subject companies. However, it should be presumed that the author of the Product has had discussions with the subject company to ensure factual accuracy prior to publication. All opinions, projections and estimates constitute the judgment of the author as of the date of the Product and these, plus any other information contained in the Product, are subject to change without notice. Prices and availability of financial instruments also are subject to change without notice. Notwithstanding other departments within the Firm advising the companies discussed in this Product, information obtained in such role is not used in the preparation of the Product. Although Citi Investment Research does not set a predetermined frequency for publication, if the Product is a fundamental research report, it is the intention of Citi Investment Research to provide research coverage of the/those issuer(s) mentioned therein, including in response to news affecting this issuer, subject to applicable quiet periods and capacity constraints. The Product is for informational purposes only and is not intended as an offer or solicitation for the purchase or sale of a security. Any decision to purchase securities mentioned in the Product must take into account existing public information on such security or any registered prospectus.

Investing in non-U.S. securities, including ADRs, may entail certain risks. The securities of non-U.S. issuers may not be registered with, nor be subject to the reporting requirements of the U.S. Securities and Exchange Commission. There may be limited information available on foreign securities. Foreign companies are generally not subject to uniform audit and reporting standards, practices and requirements comparable to those in the U.S. Securities of some foreign companies may be less liquid and their prices more volatile than securities of comparable U.S. companies. In addition, exchange rate movements may have an adverse effect on the value of an investment in a foreign stock and its corresponding dividend payment for U.S. investors. Net dividends to ADR investors are estimated, using withholding tax rates conventions, deemed accurate, but investors are urged to consult their tax advisor for exact dividend computations. Investors who have received the Product from the Firm may be prohibited in certain states or other jurisdictions from purchasing securities mentioned in the Product from the Firm. Please ask your Financial Consultant for additional details. Citigroup Global Markets Inc. takes responsibility for the Product in the United States. Any orders by US investors resulting from the information contained in the Product may be placed only through Citigroup Global Markets Inc.

**Important Disclosures for Morgan Stanley Smith Barney LLC Customers:** Morgan Stanley & Co. Incorporated (Morgan Stanley) research reports may be available about the companies that are the subject of this Citi Investment Research & Analysis (CIRA) research report. Ask your Financial Advisor or use [smithbarney.com](http://smithbarney.com) to view any available Morgan Stanley research reports in addition to CIRA research reports. In addition to the disclosures on this research report and on the CIRA disclosure website ([https://www.citigroupgeo.com/geopublic/Dislosures/index\\_a.html](https://www.citigroupgeo.com/geopublic/Dislosures/index_a.html)), important disclosures regarding the relationship between the companies that are the subject of this report and Morgan Stanley Smith Barney LLC, Morgan Stanley or any of its affiliates, are available at [www.morganstanley.com/researchdisclosures](http://www.morganstanley.com/researchdisclosures).

This CIRA research report has been reviewed and approved on behalf of Morgan Stanley Smith Barney LLC. This review and approval was conducted by the same person who reviewed this research report on behalf of CIRA. This could create a conflict of interest.

The Citigroup legal entity that takes responsibility for the production of the Product is the legal entity which the first named author is employed by. The Product is made available in Australia through Citigroup Global Markets Australia Pty Ltd. (ABN 64 003 114 832 and AFSL No. 240992), participant of the ASX Group and regulated by the Australian Securities & Investments Commission. Citigroup Centre, 2 Park Street, Sydney, NSW 2000. The Product is made available in Australia to Private Banking



wholesale clients through Citigroup Pty Limited (ABN 88 004 325 080 and AFSL 238098). Citigroup Pty Limited provides all financial product advice to Australian Private Banking wholesale clients through bankers and relationship managers. If there is any doubt about the suitability of investments held in Citigroup Private Bank accounts, investors should contact the Citigroup Private Bank in Australia. Citigroup companies may compensate affiliates and their representatives for providing products and services to clients. The Product is made available in Brazil by Citigroup Global Markets Brasil - CCTVM SA, which is regulated by CVM - Comissão de Valores Mobiliários, BACEN - Brazilian Central Bank, APIMEC - Associação Associação dos Analistas e Profissionais de Investimento do Mercado de Capitais and ANBID - Associação Nacional dos Bancos de Investimento. Av. Paulista, 1111 - 11º andar - CEP. 01311920 - São Paulo - SP. If the Product is being made available in certain provinces of Canada by Citigroup Global Markets (Canada) Inc. ("CGM Canada"), CGM Canada has approved the Product. Citigroup Place, 123 Front Street West, Suite 1100, Toronto, Ontario M5J 2M3. The Product is made available in France by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 1-5 Rue Paul Cézanne, 8ème, Paris, France. The Product may not be distributed to private clients in Germany. The Product is distributed in Germany by Citigroup Global Markets Deutschland AG & Co. KGaA, which is regulated by Bundesanstalt fuer Finanzdienstleistungsaufsicht (BaFin). Frankfurt am Main, Reuterweg 16, 60323 Frankfurt am Main. If the Product is made available in Hong Kong by, or on behalf of, Citigroup Global Markets Asia Ltd., it is attributable to Citigroup Global Markets Asia Ltd., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. Citigroup Global Markets Asia Ltd. is regulated by Hong Kong Securities and Futures Commission. If the Product is made available in Hong Kong by The Citigroup Private Bank to its clients, it is attributable to Citibank N.A., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. The Citigroup Private Bank and Citibank N.A. is regulated by the Hong Kong Monetary Authority. The Product is made available in India by Citigroup Global Markets India Private Limited, which is regulated by Securities and Exchange Board of India. Bakhtawar, Nariman Point, Mumbai 400-021. The Product is made available in Indonesia through PT Citigroup Securities Indonesia. 5/F, Citibank Tower, Bapindo Plaza, Jl. Jend. Sudirman Kav. 54-55, Jakarta 12190. Neither this Product nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens wherever they are domiciled or to Indonesian residents except in compliance with applicable capital market laws and regulations. This Product is not an offer of securities in Indonesia. The securities referred to in this Product have not been registered with the Capital Market and Financial Institutions Supervisory Agency (BAPEPAM-LK) pursuant to relevant capital market laws and regulations, and may not be offered or sold within the territory of the Republic of Indonesia or to Indonesian citizens through a public offering or in circumstances which constitute an offer within the meaning of the Indonesian capital market laws and regulations. The Product is made available in Italy by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. Foro Buonaparte 16, Milan, 20121, Italy. If the Product was prepared by Citi Investment Research and distributed in Japan by Nikko Citigroup Limited ("NCL"), it is being so distributed under license. If the Product was prepared by NCL and distributed by Nikko Cordial Securities Inc. or Citigroup Global Markets Inc. it is being so distributed under license. NCL is regulated by Financial Services Agency, Securities and Exchange Surveillance Commission, Japan Securities Dealers Association, Tokyo Stock Exchange and Osaka Securities Exchange. Shin-Marunouchi Building, 1-5-1 Marunouchi, Chiyoda-ku, Tokyo 100-6520 Japan. In the event that an error is found in an NCL research report, a revised version will be posted on Citi Investment Research's Global Equities Online (GEO) website. If you have questions regarding GEO, please call (81 3) 6270-3019 for help. The Product is made available in Korea by Citigroup Global Markets Korea Securities Ltd., which is regulated by Financial Supervisory Commission and the Financial Supervisory Service. Hungkuk Life Insurance Building, 226 Shinmunno 1-GA, Jongno-Gu, Seoul, 110-061. The Product is made available in Malaysia by Citigroup Global Markets Malaysia Sdn Bhd, which is regulated by Malaysia Securities Commission. Menara Citibank, 165 Jalan Ampang, Kuala Lumpur, 50450. The Product is made available in Mexico by Acciones y Valores Banamex, S.A. De C. V., Casa de Bolsa, Integrante del Grupo Financiero Banamex ("Accival") which is a wholly owned subsidiary of Citigroup Inc. and is regulated by Comisión Nacional Bancaria y de Valores. Reforma 398, Col. Juárez, 06600 Mexico, D.F. In New Zealand the Product is made available through Citigroup Global Markets New Zealand Ltd. (Company Number 604457), a Participant of the New Zealand Exchange Limited and regulated by the New Zealand Securities Commission. Level 19, Mobile on the Park, 157 Lambton Quay, Wellington. The Product is made available in Pakistan by Citibank N.A. Pakistan branch, which is regulated by the State Bank of Pakistan and Securities Exchange Commission, Pakistan. AWT Plaza, 1.1. Chundrigar Road, P.O. Box 4889, Karachi-74200. The Product is made available in Poland by Dom Maklerski Banku Handlowego SA an indirect subsidiary of Citigroup Inc., which is regulated by Komisja Nadzoru Finansowego. Dom Maklerski Banku Handlowego S.A. ul. Chalubinskiego 8, 00-630 Warszawa. The Product is made available in the Russian Federation through ZAO Citibank, which is licensed to carry out banking activities in the Russian Federation in accordance with the general banking license issued by the Central Bank of the Russian Federation and brokerage activities in accordance with the license issued by the Federal Service for Financial Markets. Neither the Product nor any information contained in the Product shall be considered as advertising the securities mentioned in this report within the territory of the Russian Federation or outside the Russian Federation. The Product does not constitute an appraisal within the meaning of the Federal Law of the Russian Federation of 29 July 1998 No. 135-FZ (as amended) On Appraisal Activities in the Russian Federation. 8-10 Gasheka Street, 125047 Moscow. The Product is made available in Singapore through Citigroup Global Markets Singapore Pte. Ltd., a Capital Markets Services Licence holder, and regulated by Monetary Authority of Singapore. 1 Temasek Avenue, #39-02 Millenia Tower, Singapore 039192. The Product is made available by The Citigroup Private Bank in Singapore through Citibank, N.A., Singapore branch, a licensed bank in Singapore that is regulated by Monetary Authority of Singapore. Citigroup Global Markets (Pty) Ltd. is incorporated in the Republic of South Africa (company registration number 2000/025866/07) and its registered office is at 145 West Street, Sandton, 2196, Saxonwold. Citigroup Global Markets (Pty) Ltd. is regulated by JSE Securities Exchange South Africa, South African Reserve Bank and the Financial Services Board. The investments and services contained herein are not available to private customers in South Africa. The Product is made available in Spain by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 29 Jose Ortega Y Gasset, 4th Floor, Madrid, 28006, Spain. The Product is made available in Taiwan through Citigroup Global Markets Taiwan Securities Company Ltd., which is regulated by Securities & Futures Bureau. No portion of the report may be reproduced or quoted in Taiwan by the press or any other person. No. 8 Manhattan Building, Hsin Yi Road, Section 5, Taipei 100, Taiwan. The Product is made available in Thailand through Citicorp Securities (Thailand) Ltd., which is regulated by the Securities and Exchange Commission of Thailand. 18/F, 22/F and 29/F, 82 North Sathorn Road, Silom, Bangrak, Bangkok 10500, Thailand. The Product is made available in Turkey through Citibank AS which is regulated by Capital Markets Board. Tekfen Tower, Eski Buyukdere Caddesi # 209 Kat 2B, 23294 Levent, Istanbul, Turkey. In the U.A.E, these materials (the "Materials") are communicated by Citigroup Global Markets Limited, DIFC branch ("CGML"), an entity registered in the Dubai International Financial Center ("DIFC") and licensed and regulated by the Dubai Financial Services Authority ("DFSA") to Professional Clients and Market Counterparties only and should not be relied upon or distributed to Retail Clients. A distribution of the different CIRA ratings distribution, in percentage terms for Investments in each sector covered is made available on request. Financial products and/or services to which the Materials relate will only be made available to Professional Clients and Market Counterparties. The Product is made available in United Kingdom by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. This material may relate to investments or services of a person outside of the UK or to other matters which are not regulated by the FSA and further details as to where this may be the case are available upon request in respect of this material. Citigroup Centre, Canada Square, Canary Wharf, London, E14 5LB. The Product is made available in United States by Citigroup Global Markets Inc, which is regulated by NASD, NYSE and the US Securities and Exchange Commission. 388 Greenwich Street, New York, NY 10013. Unless specified to the contrary, within EU Member States, the Product is made available by Citigroup Global Markets Limited, which is regulated by Financial Services Authority. Many European regulators require that a firm must establish, implement and make available a policy for managing conflicts of interest arising as a result of publication or distribution of investment research. The policy applicable to Citi Investment Research's Products can be found at [www.citigroupgeo.com](http://www.citigroupgeo.com). Compensation of equity research analysts is determined by equity research management and Citigroup's senior management and is not linked to specific transactions or recommendations. The Product may have been distributed simultaneously, in multiple formats, to the Firm's worldwide institutional and retail customers. The Product is not to be construed as providing investment services in any jurisdiction where the provision of such services would not be permitted. Subject to the nature and contents of the Product, the investments described therein are subject to fluctuations in price and/or value and investors may get back less than originally invested. Certain high-



volatility investments can be subject to sudden and large falls in value that could equal or exceed the amount invested. Certain investments contained in the Product may have tax implications for private customers whereby levels and basis of taxation may be subject to change. If in doubt, investors should seek advice from a tax adviser. The Product does not purport to identify the nature of the specific market or other risks associated with a particular transaction. Advice in the Product is general and should not be construed as personal advice given it has been prepared without taking account of the objectives, financial situation or needs of any particular investor. Accordingly, investors should, before acting on the advice, consider the appropriateness of the advice, having regard to their objectives, financial situation and needs. Prior to acquiring any financial product, it is the client's responsibility to obtain the relevant offer document for the product and consider it before making a decision as to whether to purchase the product.

---

© 2009 Citigroup Global Markets Inc. (© Nikko Citigroup Limited, if this Product was prepared by it). Citi Investment Research is a division and service mark of Citigroup Global Markets Inc. and its affiliates and is used and registered throughout the world. Citi and Citi with Arc Design are trademarks and service marks of Citigroup Inc and its affiliates and are used and registered throughout the world. Nikko is a registered trademark of Nikko Cordial Corporation. All rights reserved. Any unauthorized use, duplication, redistribution or disclosure is prohibited by law and will result in prosecution. Where included in this report, MSCI sourced information is the exclusive property of Morgan Stanley Capital International Inc. (MSCI). Without prior written permission of MSCI, this information and any other MSCI intellectual property may not be reproduced, disseminated or used to create any financial products, including any indices. This information is provided on an "as is" basis. The user assumes the entire risk of any use made of this information. MSCI, its affiliates and any third party involved in, or related to, computing or compiling the information hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability or fitness for a particular purpose with respect to any of this information. Without limiting any of the foregoing, in no event shall MSCI, any of its affiliates or any third party involved in, or related to, computing or compiling the information have any liability for any damages of any kind. MSCI, Morgan Stanley Capital International and the MSCI indexes are services marks of MSCI and its affiliates. The information contained in the Product is intended solely for the recipient and may not be further distributed by the recipient. The Firm accepts no liability whatsoever for the actions of third parties. The Product may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the Product refers to website material of the Firm, the Firm has not reviewed the linked site. Equally, except to the extent to which the Product refers to website material of the Firm, the Firm takes no responsibility for, and makes no representations or warranties whatsoever as to, the data and information contained therein. Such address or hyperlink (including addresses or hyperlinks to website material of the Firm) is provided solely for your convenience and information and the content of the linked site does not in anyway form part of this document. Accessing such website or following such link through the Product or the website of the Firm shall be at your own risk and the Firm shall have no liability arising out of, or in connection with, any such referenced website.

---

ADDITIONAL INFORMATION IS AVAILABLE UPON REQUEST

---