

Tata Power

Coal mine EBIT fell sharply in Sep-q, consol 1H tracking in line with full-year estimates - ALERT

- **Tata Power reported consol PAT of Rs3.67B in Sep-q, down 30% YoY:** Standalone PAT (Rs1.83B) reported last month was down 28% YoY attributable to a) non-recurrence of exchange gain of Rs767M recorded in Sep-08, b) higher tax rate due to MAT provisions, and c) lower financial income. Based on difference of consol PAT and reported PAT numbers (for standalone+ subsidiaries), we estimate that coal mine attributable profits declined 36% YoY in Sep-q to Rs1.59B.
- **Coal mine PBIT declined 17.6% YoY in Sep-q:** In our view the decline in average realization was driven by lower coal prices. McCloskey's coal price index was in the range of US\$140-190/MT in Sep-q last year vs. US\$66-77/MT in Sep-q of FY10.
- **Half year tracking in-line with full year estimates:** 1H FY10 EBIT of Rs17.3B is ~51% of our full-year estimate. 1H PAT is tracking slightly ahead of our FY10 estimate (55% of full-year).
- **Update on subsidiary results:** (1) **NDPL** (51% sub): PAT declined 32% to Rs256MM due to increased tax provision of Rs103MM, on account of change in MAT rules (2) **Powerlinks** (51% sub): PAT increased by 100% YoY to Rs206MM on account of change in CERC norms and also due to higher capitalization during the quarter. (3) **Power trading:** Although units traded increased 27% to 807MU, realization/unit declined 20% YoY to Rs5.7. Contribution to bottom line is small (<0.5%), although the top-line contribution is ~10%.
- **Tata Power will host its analyst conference call tomorrow post-market hours.** We expect to get more color on these numbers then.

Tata Power: Breakdown of Consolidated PAT

Rs in millions, year-end March

| | PAT | 2QFY09 | 2QFY10 | %YoY | 1HFY09 | 1HFY10 | %YoY |
|-------------------------|-----|--------|--------|--------|--------|--------|-------|
| Standalone [a] | | 2,529 | 1,832 | (27.6) | 4,435 | 5,583 | 25.9 |
| Add: Coal mine (30%) | | 2,496 | 1,593 | (36.2) | 2,563 | 3,245 | 26.6 |
| Add: NDPL (51%) | | 186 | 131 | (29.6) | 352 | 342 | (3.0) |
| Add: Power trading | | 15 | 16 | 8.0 | 29 | 34 | 17.2 |
| Add: Powerlinks (51%) | | 53 | 105 | 99.6 | 99 | 200 | 102.7 |
| Consolidated (Reported) | | 5,279 | 3,677 | (30.3) | 7,478 | 9,404 | 25.8 |

Source: Company data, J.P. Morgan estimates.

Overweight

TTPW.BO, TPWR IN

Price: Rs1,329.95

26 November 2009

Electric Utilities

Shilpa Krishnan^{AC}

(91-22) 6157-3580

shilpa.x.krishnan@jpmorgan.com

Sumit Kishore

(91-22) 6157-3581

sumit.x.kishore@jpmorgan.com

Deepika Belani

(91-22) 6157-3582

deepika.x.belani@jpmorgan.com

J.P. Morgan India Private Limited

See page 3 for analyst certification and important disclosures, including non-US analyst disclosures.

J.P. Morgan 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.

Table 1: Tata Power: Consolidated Segment P&L

Rs in millions, year-end March

| | 2QFY09 | 2QFY10 | % YoY | 1HFY09 | 1HFY10 | % YoY | FY09 | FY10E | % YoY |
|---|---------------|---------------|---------------|---------------|---------------|--------------|----------------|----------------|-------------|
| Net revenue | 46,273 | 45,552 | (1.6) | 86,806 | 92,569 | 6.6 | 175,051 | | |
| Other operating income | 101 | 240 | 137.6 | 262 | 355 | 35.7 | 824 | | |
| Total Income | 46,374 | 45,792 | (1.3) | 87,067 | 92,924 | 6.7 | 175,875 | 181,651 | 3.3 |
| Total expenditure | 37,713 | 36,294 | (3.8) | 71,424 | 71,365 | (0.1) | 143,224 | | |
| EBITDA | 8,661 | 9,498 | 9.7 | 15,644 | 21,559 | 37.8 | 32,651 | 41,474 | 27.0 |
| Depreciation | 1,788 | 2,244 | 25.5 | 3,312 | 4,255 | 28.5 | 6,565 | 7,383 | 12.5 |
| EBIT | 6,872 | 7,254 | 5.6 | 12,331 | 17,304 | 40.3 | 26,086 | 34,091 | 30.7 |
| Other income | 1,204 | 784 | (34.9) | 1,835 | 1,471 | (19.9) | 5,639 | 2,215 | (60.7) |
| -Gain on exchange (net) | 764 | 287 | (62.4) | 1,112 | 747 | (32.8) | 1,650 | | |
| -Others | 441 | 496 | 12.7 | 724 | 724 | 0.0 | 3,990 | | |
| PBIT | 8,077 | 8,037 | (0.5) | 14,167 | 18,774 | 32.5 | 31,726 | 36,306 | 14.4 |
| Interest | 1,695 | 1,877 | 10.8 | 3,173 | 3,933 | 23.9 | 7,087 | 7,529 | 6.2 |
| PBT | 6,382 | 6,160 | (3.5) | 10,994 | 14,842 | 35.0 | 24,638 | 28,777 | 16.8 |
| Tax | 1,048 | 2,387 | 127.7 | 2,945 | 5,233 | 77.7 | 11,651 | 11,186 | (4.0) |
| Add:Share of profit/ (loss) of associates | 222 | 189 | (14.9) | 174 | 184 | 6.2 | 276 | 276 | 0.0 |
| Less: Minority interest | 187 | 275 | 47.3 | 374 | 579 | 54.6 | 1,076 | 950 | (11.7) |
| Less: Net statutory appropriations | 90 | 10 | (88.9) | 370 | (189) | (151.1) | (453) | | |
| Adjusted PATAMI | 5,279 | 3,677 | (30.3) | 7,478 | 9,404 | 25.8 | 12,640 | 16,917 | 33.8 |
| Extraordinary items | 0 | 0 | | | | | 0 | 0 | |
| Reported PAT | 5,279 | 3,677 | (30.3) | 7,478 | 9,404 | 25.8 | 12,640 | 16,917 | 33.8 |
| EBITDA margin (%) | 18.7 | 20.7 | | 18.0 | 23.2 | | 18.6 | 22.8 | |
| EBIT margin (%) | 14.8 | 15.8 | | 14.2 | 18.6 | | 14.8 | 18.8 | |
| PBT margin (%) | 13.8 | 13.5 | | 12.6 | 16.0 | | 14.0 | 15.8 | |
| PAT margin (%) | 11.4 | 8.0 | | 8.6 | 10.1 | | 7.2 | 9.3 | |
| Tax rate (%) | 16.4 | 38.7 | | 26.8 | 35.3 | | 47.3 | 38.9 | |
| Segment Revenue | | | | | | | | | |
| -Power business | 32,190 | 31,986 | (0.6) | 61,073 | 65,416 | 7.1 | 119,121 | 134,039 | 12.5 |
| -Coal business | 12,133 | 11,308 | (6.8) | 22,251 | 22,892 | 2.9 | 47,766 | 46,025 | (3.6) |
| -Others | 2,051 | 2,498 | 21.8 | 3,743 | 4,616 | 23.3 | 8,989 | 1,587 | (82.3) |
| Total segment revenue | 46,374 | 45,792 | (1.3) | 87,067 | 92,924 | 6.7 | 175,875 | 181,651 | 3.3 |
| Less: Intersegment revenue | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| Net revenue | 46,374 | 45,792 | (1.3) | 87,067 | 92,924 | 6.7 | 175,875 | 181,651 | 3.3 |
| Segment results (PBIT) | | | | | | | | | |
| -Power business | 2,917 | 4,229 | 45.0 | 6,070 | 10,853 | 78.8 | 13,919 | 16,007 | 15.0 |
| -Coal business | 4,130 | 3,404 | (17.6) | 7,098 | 7,136 | 0.5 | 14,639 | 17,926 | 22.4 |
| -Others | 102 | 283 | 177.5 | 301 | 498 | 65.3 | (100) | 0 | |
| Total segment results | 7,148 | 7,916 | 10.7 | 13,470 | 18,487 | 37.2 | 28,459 | 33,932 | 19.2 |
| Segment PBIT margin (%) | | | | | | | | | |
| -Power business | 9.1 | 13.2 | | 9.9 | 16.6 | | 11.7 | 11.9 | |
| -Coal business | 34.0 | 30.1 | | 31.9 | 31.2 | | 30.6 | 38.9 | |
| -Others | 5.0 | 11.3 | | 8.1 | 10.8 | | (1.1) | 0.0 | |
| Total segment results | 15.4 | 17.3 | | 15.5 | 19.9 | | 16.2 | 18.7 | |

Source: Company data, J.P. Morgan estimates.

Table 2: Tata Power: Breakdown of Consolidated Revenue

Rs in millions, year-end March

| Revenue | 2QFY09 | 2QFY10 | % YoY | 1HFY09 | 1HFY10 | % YoY | FY09 | FY10E | % YoY |
|-----------------------------------|--------|--------|--------|--------|--------|-------|---------|---------|-------|
| Standalone revenue | 19,589 | 17,211 | (12.1) | 39,850 | 37,367 | (6.2) | 71,932 | 82,081 | 14.1 |
| Add: Coal mine | 12,133 | 11,308 | (6.8) | 22,251 | 22,892 | 2.9 | 47,766 | 46,025 | (3.6) |
| Add: NDPL | 7,283 | 10,326 | 41.8 | 13,166 | 18,070 | 37.3 | 24,680 | 26,900 | 9.0 |
| Add: Power trading | 4,489 | 4,592 | 2.3 | 8,623 | 11,559 | 34.1 | 21,719 | 22,805 | 5.0 |
| Add: Powerlinks | 558 | 751 | 34.5 | 1,114 | 1,467 | 31.6 | 2,545 | 2,361 | (7.2) |
| Add: New projects | | | | | | | | 1,480 | |
| Consolidated Revenue (Calculated) | 44,052 | 44,188 | 0.3 | 85,003 | 91,355 | 7.5 | 168,642 | 181,651 | |

Source: Company data, J.P. Morgan estimates.

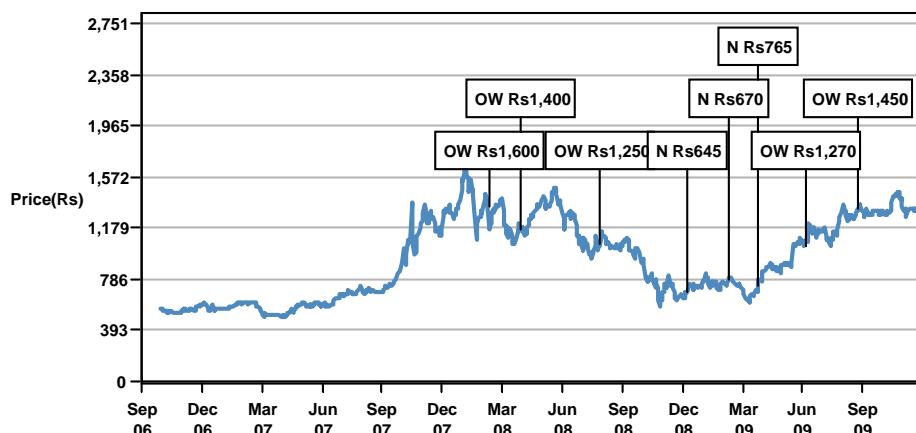
Analyst Certification:

The research analyst(s) denoted by an “AC” on the cover of this report certifies (or, where multiple research analysts are primarily responsible for this report, the research analyst denoted by an “AC” on the cover or within the document individually certifies, with respect to each security or issuer that the research analyst covers in this research) that: (1) all of the views expressed in this report accurately reflect his or her personal views about any and all of the subject securities or issuers; and (2) no part of any of the research analyst’s compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analyst(s) in this report.

Important Disclosures

- **Lead or Co-manager:** JPMSI or its affiliates acted as lead or co-manager in a public offering of equity and/or debt securities for Tata Power within the past 12 months.
- **Analyst Position:** The following analysts (and/or their associates or household members) own a long position in the shares of Tata Power: Bijay Kumar.
- **Client of the Firm:** Tata Power is or was in the past 12 months a client of JPMSI; during the past 12 months, JPMSI provided to the company investment banking services and non-investment banking securities-related services.
- **Investment Banking (past 12 months):** JPMSI or its affiliates received in the past 12 months compensation for investment banking services from Tata Power.
- **Investment Banking (next 3 months):** JPMSI or its affiliates expect to receive, or intend to seek, compensation for investment banking services in the next three months from Tata Power.
- **Non-Investment Banking Compensation:** JPMSI has received compensation in the past 12 months for products or services other than investment banking from Tata Power. An affiliate of JPMSI has received compensation in the past 12 months for products or services other than investment banking from Tata Power.

Tata Power (TTPW.BO) Price Chart



| Date | Rating | Share Price (Rs) | Price Target (Rs) |
|-----------|--------|------------------|-------------------|
| 10-Feb-08 | OW | 1338.15 | 1600.00 |
| 31-Mar-08 | OW | 1171.90 | 1400.00 |
| 27-Jul-08 | OW | 1051.60 | 1250.00 |
| 09-Dec-08 | N | 687.20 | 645.00 |
| 10-Feb-09 | N | 778.75 | 670.00 |
| 26-Mar-09 | N | 740.20 | 765.00 |
| 05-Jun-09 | OW | 1041.55 | 1270.00 |
| 24-Aug-09 | OW | 1320.90 | 1450.00 |

Source: Bloomberg and J.P. Morgan; price data adjusted for stock splits and dividends.
 Break in coverage Mar 07, 2004 - Aug 31, 2004. This chart shows J.P. Morgan's continuing coverage of this stock; the current analyst may or may not have covered it over the entire period.
 J.P. Morgan ratings: OW = Overweight, N = Neutral, UW = Underweight.

Explanation of Equity Research Ratings and Analyst(s) Coverage Universe:

J.P. Morgan uses the following rating system: **Overweight** [Over the next six to twelve months, we expect this stock will outperform the average total return of the stocks in the analyst’s (or the analyst’s team’s) coverage universe.] **Neutral** [Over the next six to twelve months, we expect this stock will perform in line with the average total return of the stocks in the analyst’s (or the analyst’s team’s) coverage universe.] **Underweight** [Over the next six to twelve months, we expect this stock will underperform the average total return of the stocks in the analyst’s (or the analyst’s team’s) coverage universe.] The analyst or analyst’s team’s coverage universe is the sector and/or country shown on the cover of each publication. See below for the specific stocks in the certifying analyst(s) coverage universe.

Coverage Universe: **Shilpa Krishnan:** ABB Ltd (ABB.BO), Adani Power (ADAN.BO), Bharat Heavy Electricals (BHEL) (BHEL.BO), Crompton Greaves Limited (CROM.BO), GMR Infrastructure Ltd (GMRI.BO), GVK Power & Infrastructure (GVKP.BO), Hindustan Construction Company (HCNS.BO), IVRCL Infrastructure Ltd (IVRC.BO), Jaiprakash Associates

Ltd (JAIA.BO), Larsen & Toubro (LART.BO), NTPC (NTPC.BO), Punj Lloyd Ltd (PUJL.BO), Reliance Infrastructure Ltd (RLIN.BO), Reliance Power (RPOL.BO), Siemens India (SIEM.BO), Suzlon Energy Ltd (SUZL.BO), Tata Power (TTPW.BO)

J.P. Morgan Equity Research Ratings Distribution, as of September 30, 2009

| | Overweight (buy) | Neutral (hold) | Underweight (sell) |
|-------------------------------------|-----------------------------|---------------------------|-------------------------------|
| JPM Global Equity Research Coverage | 39% | 46% | 15% |
| IB clients* | 56% | 57% | 42% |
| JPMSI Equity Research Coverage | 38% | 51% | 10% |
| IB clients* | 76% | 72% | 56% |

*Percentage of investment banking clients in each rating category.

For purposes only of NASD/NYSE ratings distribution rules, our Overweight rating falls into a buy rating category; our Neutral rating falls into a hold rating category; and our Underweight rating falls into a sell rating category.

Valuation and Risks: Please see the most recent company-specific research report for an analysis of valuation methodology and risks on any securities recommended herein. Research is available at <http://www.morganmarkets.com>, or you can contact the analyst named on the front of this note or your J.P. Morgan representative.

Analysts' Compensation: The equity research analysts responsible for the preparation of this report receive compensation based upon various factors, including the quality and accuracy of research, client feedback, competitive factors, and overall firm revenues, which include revenues from, among other business units, Institutional Equities and Investment Banking.

Registration of non-US Analysts: Unless otherwise noted, the non-US analysts listed on the front of this report are employees of non-US affiliates of JPMSI, are not registered/qualified as research analysts under NASD/NYSE rules, may not be associated persons of JPMSI, and may not be subject to NASD Rule 2711 and NYSE Rule 472 restrictions on communications with covered companies, public appearances, and trading securities held by a research analyst account.

Other Disclosures

J.P. Morgan is the global brand name for J.P. Morgan Securities Inc. (JPMSI) and its non-US affiliates worldwide.

Options related research: If the information contained herein regards options related research, such information is available only to persons who have received the proper option risk disclosure documents. For a copy of the Option Clearing Corporation's Characteristics and Risks of Standardized Options, please contact your J.P. Morgan Representative or visit the OCC's website at <http://www.optionsclearing.com/publications/risks/riskstoc.pdf>.

Legal Entities Disclosures

U.S.: JPMSI is a member of NYSE, FINRA and SIPC. J.P. Morgan Futures Inc. is a member of the NFA. JPMorgan Chase Bank, N.A. is a member of FDIC and is authorized and regulated in the UK by the Financial Services Authority. **U.K.:** J.P. Morgan Securities Ltd. (JPMSL) is a member of the London Stock Exchange and is authorised and regulated by the Financial Services Authority. Registered in England & Wales No. 2711006. Registered Office 125 London Wall, London EC2Y 5AJ. **South Africa:** J.P. Morgan Equities Limited is a member of the Johannesburg Securities Exchange and is regulated by the FSB. **Hong Kong:** J.P. Morgan Securities (Asia Pacific) Limited (CE number AAJ321) is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission in Hong Kong. **Korea:** J.P. Morgan Securities (Far East) Ltd, Seoul branch, is regulated by the Korea Financial Supervisory Service. **Australia:** J.P. Morgan Australia Limited (ABN 52 002 888 011/AFS Licence No: 238188) is regulated by ASIC and J.P. Morgan Securities Australia Limited (ABN 61 003 245 234/AFS Licence No: 238066) is a Market Participant with the ASX and regulated by ASIC. **Taiwan:** J.P.Morgan Securities (Taiwan) Limited is a participant of the Taiwan Stock Exchange (company-type) and regulated by the Taiwan Securities and Futures Bureau. **India:** J.P. Morgan India Private Limited is a member of the National Stock Exchange of India Limited and Bombay Stock Exchange Limited and is regulated by the Securities and Exchange Board of India. **Thailand:** JPMorgan Securities (Thailand) Limited is a member of the Stock Exchange of Thailand and is regulated by the Ministry of Finance and the Securities and Exchange Commission. **Indonesia:** PT J.P. Morgan Securities Indonesia is a member of the Indonesia Stock Exchange and is regulated by the BAPEPAM. **Philippines:** J.P. Morgan Securities Philippines Inc. is a member of the Philippine Stock Exchange and is regulated by the Securities and Exchange Commission. **Brazil:** Banco J.P. Morgan S.A. is regulated by the Comissao de Valores Mobiliarios (CVM) and by the Central Bank of Brazil. **Mexico:** J.P. Morgan Casa de Bolsa, S.A. de C.V., J.P. Morgan Grupo Financiero is a member of the Mexican Stock Exchange and authorized to act as a broker dealer by the National Banking and Securities Exchange Commission. **Singapore:** This material is issued and distributed in Singapore by J.P. Morgan Securities Singapore Private Limited (JPMS) [MICA (P) 132/01/2009 and Co. Reg. No.: 199405335R] which is a member of the Singapore Exchange Securities Trading Limited and is regulated by the Monetary Authority of Singapore (MAS) and/or JPMorgan Chase Bank, N.A., Singapore branch (JPMCB Singapore) which is regulated by the MAS. **Malaysia:** This material is issued and distributed in Malaysia by JPMorgan Securities (Malaysia) Sdn Bhd (18146-X) which is a Participating Organization of Bursa Malaysia Berhad and a holder of Capital Markets Services License issued by the Securities Commission in

Malaysia. **Pakistan:** J. P. Morgan Pakistan Broking (Pvt.) Ltd is a member of the Karachi Stock Exchange and regulated by the Securities and Exchange Commission of Pakistan. **Saudi Arabia:** J.P. Morgan Saudi Arabia Ltd. is authorised by the Capital Market Authority of the Kingdom of Saudi Arabia (CMA) to carry out dealing as an agent, arranging, advising and custody, with respect to securities business under licence number 35-07079 and its registered address is at 8th Floor, Al-Faisaliyah Tower, King Fahad Road, P.O. Box 51907, Riyadh 11553, Kingdom of Saudi Arabia.

Country and Region Specific Disclosures

U.K. and European Economic Area (EEA): Unless specified to the contrary, issued and approved for distribution in the U.K. and the EEA by JPMSL. Investment research issued by JPMSL has been prepared in accordance with JPMSL's policies for managing conflicts of interest arising as a result of publication and distribution of investment research. Many European regulators require that a firm to establish, implement and maintain such a policy. This report has been issued in the U.K. only to persons of a kind described in Article 19 (5), 38, 47 and 49 of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (all such persons being referred to as "relevant persons"). This document must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this document relates is only available to relevant persons and will be engaged in only with relevant persons. In other EEA countries, the report has been issued to persons regarded as professional investors (or equivalent) in their home jurisdiction. **Australia:** This material is issued and distributed by JPMSAL in Australia to "wholesale clients" only. JPMSAL does not issue or distribute this material to "retail clients." The recipient of this material must not distribute it to any third party or outside Australia without the prior written consent of JPMSAL. For the purposes of this paragraph the terms "wholesale client" and "retail client" have the meanings given to them in section 761G of the Corporations Act 2001. **Germany:** This material is distributed in Germany by J.P. Morgan Securities Ltd., Frankfurt Branch and J.P.Morgan Chase Bank, N.A., Frankfurt Branch which are regulated by the Bundesanstalt für Finanzdienstleistungsaufsicht. **Hong Kong:** The 1% ownership disclosure as of the previous month end satisfies the requirements under Paragraph 16.5(a) of the Hong Kong Code of Conduct for persons licensed by or registered with the Securities and Futures Commission. (For research published within the first ten days of the month, the disclosure may be based on the month end data from two months' prior.) J.P. Morgan Broking (Hong Kong) Limited is the liquidity provider for derivative warrants issued by J.P. Morgan International Derivatives Ltd and listed on The Stock Exchange of Hong Kong Limited. An updated list can be found on HKEx website: <http://www.hkex.com.hk/prod/dw/Lp.htm>. **Japan:** There is a risk that a loss may occur due to a change in the price of the shares in the case of share trading, and that a loss may occur due to the exchange rate in the case of foreign share trading. In the case of share trading, JPMorgan Securities Japan Co., Ltd., will be receiving a brokerage fee and consumption tax (shouhizei) calculated by multiplying the executed price by the commission rate which was individually agreed between JPMorgan Securities Japan Co., Ltd., and the customer in advance. Financial Instruments Firms: JPMorgan Securities Japan Co., Ltd., Kanto Local Finance Bureau (kinsho) No. 82 Participating Association / Japan Securities Dealers Association, The Financial Futures Association of Japan. **Korea:** This report may have been edited or contributed to from time to time by affiliates of J.P. Morgan Securities (Far East) Ltd, Seoul branch. **Singapore:** JPMS and/or its affiliates may have a holding in any of the securities discussed in this report; for securities where the holding is 1% or greater, the specific holding is disclosed in the Important Disclosures section above. **India:** For private circulation only, not for sale. **Pakistan:** For private circulation only, not for sale. **New Zealand:** This material is issued and distributed by JPMSAL in New Zealand only to persons whose principal business is the investment of money or who, in the course of and for the purposes of their business, habitually invest money. JPMSAL does not issue or distribute this material to members of "the public" as determined in accordance with section 3 of the Securities Act 1978. The recipient of this material must not distribute it to any third party or outside New Zealand without the prior written consent of JPMSAL. **Canada:** The information contained herein is not, and under no circumstances is to be construed as, a prospectus, an advertisement, a public offering, an offer to sell securities described herein, or solicitation of an offer to buy securities described herein, in Canada or any province or territory thereof. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the dealer registration requirement in the relevant province or territory of Canada in which such offer or sale is made. The information contained herein is under no circumstances to be construed as investment advice in any province or territory of Canada and is not tailored to the needs of the recipient. To the extent that the information contained herein references securities of an issuer incorporated, formed or created under the laws of Canada or a province or territory of Canada, any trades in such securities must be conducted through a dealer registered in Canada. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed judgment upon these materials, the information contained herein or the merits of the securities described herein, and any representation to the contrary is an offence.

General: Additional information is available upon request. Information has been obtained from sources believed to be reliable but JPMorgan Chase & Co. or its affiliates and/or subsidiaries (collectively J.P. Morgan) do not warrant its completeness or accuracy except with respect to any disclosures relative to JPMSI and/or its affiliates and the analyst's involvement with the issuer that is the subject of the research. All pricing is as of the close of market for the securities discussed, unless otherwise stated. Opinions and estimates constitute our judgment as of the date of this material and are subject to change without notice. Past performance is not indicative of future results. This material is not intended as an offer or solicitation for the purchase or sale of any financial instrument. The opinions and recommendations herein do not take into account individual client circumstances, objectives, or needs and are not intended as recommendations of particular securities, financial instruments or strategies to particular clients. The recipient of this report must make its own independent decisions regarding any securities or financial instruments mentioned herein. JPMSI distributes in the U.S. research published by non-U.S. affiliates and accepts responsibility for its contents. Periodic updates may be provided on companies/industries based on company specific developments or announcements, market conditions or any other publicly available information. Clients should contact analysts and execute transactions through a J.P. Morgan subsidiary or affiliate in their home jurisdiction unless governing law permits otherwise.

"Other Disclosures" last revised October 26, 2009.

Copyright 2009 JPMorgan Chase & Co. All rights reserved. This report or any portion hereof may not be reprinted, sold or redistributed without the written consent of J.P. Morgan.