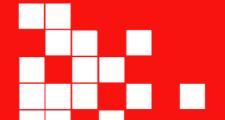
Macquarie Research **Equities**





INDIA

Cairn India

29 September 2008

| CAIR IN | C | Outperform |
|------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------|
| Stock price as of 26 Sep 08 12-month target Upside/downside Valuation - DCF | Rs Rs % Rs | 217.90 276.00 +26.7 276.00 |
| GICS sector Market cap 30-day avg turnover Market cap Number shares on issue | Rs m US\$m US\$m m | energy 412,796 15.0 9,003 1,894 |

Investment fundamentals

| Year end 31 Dec | | 2007A | 2008E | 2009E | 2010E |
|-----------------|----|-------|-------|-------|-------|
| Total revenue | bn | 10.1 | 17.5 | 48.5 | 91.0 |
| EBITDA | bn | 4.1 | 11.7 | 38.0 | 61.2 |
| EBITDA growth | % | 0.0 | 184.9 | 225.7 | 61.1 |
| Reported profit | bn | -0.2 | 8.5 | 29.6 | 47.6 |
| Adjusted profit | bn | 1.8 | 8.5 | 29.6 | 47.6 |
| | _ | | | | |
| EPS rep | Rs | -0.14 | 4.83 | 16.75 | 26.94 |
| EPS adj | Rs | 1.03 | 4.83 | 16.75 | 26.94 |
| EPS adj growth | % | nmf | 370.6 | 246.9 | 60.8 |
| PE adj | Х | 212.3 | 45.1 | 13.0 | 8.1 |
| Total DPS | Rs | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | |
| Total div yield | % | 0.0 | 0.0 | 0.0 | 0.0 |
| ROE | % | 0.6 | 2.9 | 9.3 | 13.3 |
| EV/EBITDA | Х | 93.7 | 32.9 | 10.1 | 6.3 |
| Net debt/equity | % | -3.5 | 2.9 | 12.2 | -1.9 |
| Price/book | Х | 1.3 | 1.3 | 1.2 | 1.0 |
| | | | | | |

CAIR IN rel SENSEX performance, & rec history



Source: Datastream, Macquarie Research, September 2008 (all figures in INR unless noted)

Analyst

Jal Irani 91 22 6653 3040 Amit Mishra 91 22 6653 3051

jal.irani@macquarie.com amit.mishra@macquarie.com

Near-term impact of crude price cut

Event

• Macquarie's oil & gas sector head, David Johnson, has revised down the WTI crude-oil price forecast by 6.3% for 2008. The long-term forecasts, ie, 2009 and beyond, are left unchanged. We are cutting our target price for Cairn India by 1.4% to Rs276/sh due to the change in 2008 WTI forecast. We reaffirm our Outperform recommendation.

Impact

- US\$90 is the new US\$200. Our last oil-price forecast, published in July, was completed against a background of US\$145/bbl oil, fears of demand outstripping supply, large-scale investment in commodities and political unrest. This time round we have increasing evidence of falling demand, fears of a financial meltdown and economic stagnation.
 - ⇒ Our new forecast has the 2008 figure adjusted down to reflect the recent weakness in prices and the risk that slowing demand growth keeps prices in a range of US\$100–110/bbl. This figure also reflects the fact that we are approaching the Northern Hemisphere winter, usually a period of peak demand.
- However, we recognise that there are still risks to both the upside and downside. Extremely cold weather and/or political unrest would provide a further boost to prices. Signs of a slowdown in oil-demand growth in Asia-Pacific would probably result in a sharp price decline.
- Oil-price forecast. Our forecasts for CY08 have been cut by US\$7.5/bbl and the WTI average is now US\$111.5/bbl. The WTI forecasts for CY09 and beyond have been left unchanged. Our forecast still shows 2008 as the peak year for oil prices.
- Potential for addition to reserves. Cairn plans to use enhanced oil-recovery (EOR) techniques at the Rajasthan fields. If successful, EOR may increase the recovery factor by 10–20%, or P2 reserves, by 309m boe compared with 794m boe currently, thus extending the production plateau. Cairn plans to drill 15 exploratory wells in CY08, most of them in the second half.

Earnings revision

 We have cut CY08E PAT by 7% and increased CY09E PAT by 1.8% as we factor in new crude-oil price assumptions and INR/USD exchange rates.

Price catalyst

- 12-month price target: Rs276.00 based on a DCF methodology.
- Catalyst: New finds, revision of reserves and pricing of Rajasthan crude.

Action and recommendation

 We derive a sum-of-parts value (DCF valuations for Rajasthan and Ravva fields and relative valuation for other fields) of Rs276/sh or US\$18.1/boe. We have assigned a premium of Rs50/sh (~18% of equity value) to Cairn's strong track record in striking oil.

Please refer to the important disclosures and analyst certification on inside back cover of this document, or on our website www.macquarie.com.au/research/disclosures.

Fig 1 Summary of crude-oil price forecasts

| | | 2007 Year | 2008F Year | 2009F Year | 2010F Year | 2011F Year |
|--------------------------|--------------------|--------------|---------------|---------------|---------------|---------------|
| Brent | US\$/bbl | | | | | |
| Old forecast | | 72.70 | 117.50 | 101.00 | 90.00 | 92.00 |
| New forecast | | | 110.00 | 101.00 | 90.00 | 92.00 |
| WTI | US\$/bbl | | | | | |
| Old forecast | | 72.20 | 119.00 | 103.00 | 92.00 | 94.00 |
| New forecast | | | 111.50 | 103.00 | 92.00 | 94.00 |
| Source: Macquarie Resear | ch, September 2008 | | | | | |

Fig 2 Cairn India: Summary of earnings changes

| | CY08E | CY09E | TP |
|--------------------------------------------|-------|--------|-------|
| Old | 9,141 | 29,065 | 280 |
| New | 8,545 | 29,576 | 276 |
| % change | -6.7% | +1.8% | -1.4% |
| Source: Macquarie Research, September 2008 | | | |

Fig 3 Snapshot of Cairn India's sum-of-parts valuations

| Oil reserves | Pessimistic scenario | Base scenario | Optimistic scenario | Valuation Methodology |
|--------------------------------------------|----------------------|------------------|---------------------|--------------------------|
| Ravva Fields | 28 | 34 | 37 | DCF |
| Rajasthan Fields | 148 | 184 | 209 | DCF |
| Other Fields | 3 | 4 | 6 | EV/Reserve |
| Management Premium | 22 | 53 | 59 | |
| Total | 202 | 276 | 311 | DCF |
| Enterprise Value | 358,507 | 490,691 | 552,291 | |
| Probability | 15% | 60% | 25% | |
| Enterprise Value per share | | 273 | | |
| Add: Net Debt/share | | (3) | | |
| Equity Value (Rs/share) | | 276 | | |
| EV/Reserves | | 18.1 | | |
| # of Shares | | 1778 | | |
| Source: Macquarie Research, September 2008 | ; | | | |

Oil-price forecast

(Excerpt from the report *Oil price update – US\$90 is the new US\$200* published on 29 September, 2008 by David Johnson and Vivian Wong.)

Our last oil price forecast, published in July, was completed against a background of US\$145/bbl oil, fears of demand outstripping supply, large-scale investment in commodities and political unrest. This time round we have increasing evidence of falling demand, fears of a financial meltdown and economic stagnation and oil prices have recently been as low as US\$90/bbl. We have also witnessed a US\$25/bbl range in one day's trading.

Our new forecast has the 2008 figure adjusted down to reflect the recent weakness in prices and the risk that slowing demand growth keeps prices in a range of US\$100–110/bbl. This figure also reflects the fact that we are approaching the Northern Hemisphere winter, usually a period of peak demand. Our forecast puts 4Q08 prices above the September level and back towards the levels apparent in the earlier part of 2008.

However, we recognise that there are still risks to both the upside and downside. Extremely cold weather and/or political unrest would provide a further boost to prices. Signs that US demand continues to fall at the rate of 5–6% YoY, or signs of a slowdown in oil-demand growth in Asia-Pacific, would probably result in a sharp price decline.

Our longer-term forecasts, ie, 2009 and beyond, are left unchanged for Brent and WTI.

- We still believe that the risk of further declines or a slowdown in the growth of oil demand in Europe and Asia-Pacific is high and that, in the next 2–3 years supply will tend to outstrip demand and boost oil-stock levels. These factors are the main factors in our forecast for oil prices to fall below US\$100/bbl.
- Any signs of recovery in the US could also produce US\$ strength, a factor that also tends to pull
 oil prices down.

The downside risk to our forecast is probably limited in that we included the impact that a slowdown in western world economic activity will have on world oil demand and it is difficult to identify any other factors that will have a further negative effect apart from some unforeseen large-scale boost to supplies or a savage downturn in growth in China/India. The other possible negative impact that could arise is if governments introduce regulations that limit the trading of oil futures.

The major upside risk is for a surge in oil demand on the back of a world economic recovery, which forces prices higher than our forecast. Action by OPEC to severely limit supply would also tend to boost prices, but we assign a low probability to such an event.

However, we have raised our forecast for Dubai crude as we recognise that increasing demand for heavier oils has closed the Brent-Dubai differential from peak levels in excess of US\$5/bbl. For 4Q08, we have cut the differential to US\$2.50/bbl. For 2008, the differential is now US\$3.00/bbl rising to US\$3.50/bbl thereafter. Previously, we had used a differential of US\$4.00/bbl.

Fig 4 Oil-price forecast - yearly

| | | 2006 Year | 2007 Year | 1Q(A) | 2Q(A) | 3Q(A) | 4Q(F) | 2008F Year | 2009F Year | 2010F Year | 2011F Year |
|--------------------------|---------------|--------------|--------------|---------|--------|--------|--------|---------------|---------------|---------------|---------------|
| Brent | US\$/bbl | | | | | | | | | | |
| Old forecast | | 65.42 | 72.70 | 96.49 | 122.20 | 118.07 | 118.50 | 117.50 | 101.00 | 90.00 | 92.00 |
| New forecast | | | | | | | 104.67 | 110.00 | 101.00 | 90.00 | 92.00 |
| change | US\$/bbl | | | | | | -13.83 | -7.50 | +0.00 | +0.00 | +0.00 |
| WTI | US\$/bbl | | | | | | | | | | |
| Old forecast | | 65.83 | 72.20 | 97.87 | 123.80 | 119.63 | 120.00 | 119.00 | 103.00 | 92.00 | 94.00 |
| New forecast | | | | | | | 106.17 | 111.50 | 103.00 | 92.00 | 94.00 |
| change | | | | | | | -13.83 | -7.50 | nc | nc | nc |
| WTI-Brent differential | US\$/bbl | 0.41 | -0.50 | 1.38 | 1.60 | 1.55 | 1.50 | 1.50 | 2.00 | 2.00 | 2.00 |
| Dubai | US\$/bbl | | | | | | | | | | |
| Old forecast | | 61.62 | 68.46 | 91.18 | 116.50 | 115.71 | 113.00 | 112.00 | 96.00 | 86.00 | 88.00 |
| New forecast | | | | | | | 102.17 | 106.50 | 98.00 | 86.50 | 88.50 |
| change | US\$/bbl | | | | | | -10.83 | -5.50 | +2.00 | +0.50 | +0.50 |
| Brent-Dubai differential | | 3.80 | 4.24 | 5.31 | 5.70 | 2.36 | 2.50 | 3.50 | 3.00 | 3.50 | 3.50 |
| Consensus - Brent | | | | | | 124.00 | 114.00 | 114.17 | 109.50 | 110.80 | na |
| Consensus - WTI | | | | | | 122.00 | 114.10 | 114.44 | 112.00 | 111.00 | na |
| Source: Bloomberg, Maco | quarie Resear | ch estimate | s, Septemb | er 2008 | | | | | | | |

Fig 5 Oil-price forecast – quarterly

| | 2008F | 2009F | 2010F | 2011F |
|---------------------------------------------|-----------------------|--------|-------|-------|
| Brent | | | | |
| 1Q | 96.50 | 102.00 | 92.00 | 94.00 |
| 2Q | 122.20 | 100.00 | 88.00 | 90.00 |
| 3Q | 118.07 | 101.00 | 90.00 | 92.00 |
| 4Q | 104.67 | 101.00 | 90.00 | 92.00 |
| WTI | | | | |
| 1Q | 97.87 | 104.00 | 94.00 | 96.00 |
| 2Q | 123.80 | 102.00 | 90.00 | 92.00 |
| 3Q | 119.63 | 103.00 | 92.00 | 94.00 |
| 4Q | 106.17 | 103.00 | 92.00 | 94.00 |
| Dubai | | | | |
| 1Q | 91.18 | 99.00 | 88.50 | 90.50 |
| 2Q | 116.50 | 97.00 | 84.50 | 86.50 |
| 3Q | 115.71 | 98.00 | 86.50 | 88.50 |
| 4Q | 102.17 | 98.00 | 86.50 | 88.50 |
| Source: Bloomberg, Macquarie Research estir | mates, September 2008 | | | |

Short-term outlook

In the period to end-2008 the key factors are likely to be – winter weather and demand for heating oil, the strength or weakness of the US\$ and the success of the various stimulus packages in propping up economies.

The main factors in the 'winter effect' will be the level of demand and the perception on inventories of heating oil. In the US, the overall level of crude and product stocks is low mainly due to the decline in crude oil and gasoline inventory. Distillate stocks have been growing steadily since May of this year and are only marginally below the levels seen at this time last year.

In Europe, there is also evidence that distillate stocks are close to the 2007 levels. Barring temperatures that are well-below average, it would appear that the winter effect on price is likely to produce a normal upturn in the lead up to the colder weather but we do not expect any dramatic price rises.

Fig 6 US oil inventory

| (million bbls) | Crude Oil | Gasoline | Distillate | Jet Kero | Total |
|-----------------------------------|-----------------------|------------|------------|----------|---------|
| 1998 | 323.1 | 210.1 | 152.8 | 45.8 | 731.8 |
| 1999 | 306.1 | 201.7 | 144.5 | 47.3 | 699.6 |
| 2000 | 287.8 | 202.2 | 116.5 | 41.9 | 648.4 |
| 2001 | 307.7 | 203.9 | 121.7 | 42.5 | 675.8 |
| 2002 | 275.9 | 209.5 | 130.0 | 40.6 | 656.0 |
| 2003 | 282.0 | 200.2 | 126.6 | 40.4 | 649.2 |
| 2004 | 273.1 | 199.3 | 120.9 | 40.6 | 633.8 |
| 2005 | 300.2 | 198.0 | 128.0 | 36.3 | 662.4 |
| 2006 | 325.3 | 217.8 | 146.6 | 41.4 | 731.0 |
| 2007 | 318.0 | 201.2 | 133.3 | 41.8 | 694.3 |
| 2008 (current position) | 286.3 | 191.8 | 131.2 | 38.6 | 647.9 |
| 5 year average (2003-2007) | 299.7 | 203.3 | 131.1 | 40.1 | 674.2 |
| 10 year range (1998-2007) | 273-325 | 192-218 | 117-147 | 36-47 | 634-732 |
| Current vs five year average | | | | | |
| (MM bbls) | -13.4 | -11.5 | 0.1 | -1.5 | -26.3 |
| (%) | -4.5% | -5.7% | +0.1% | -3.7% | -3.9% |
| Current vs end Sep-07 | | | | | |
| (MM bbls) | -31.7 | -9.4 | -2.1 | -3.2 | -46.5 |
| (%) | -10.0% | -4.7% | -1.6% | -7.5% | -6.7% |
| API statistics | 286.3 | 191.8 | 131.2 | 38.6 | 647.9 |
| change on previous month | -25.5 | -7.4 | +1.7 | -3.1 | -34.3 |
| DOE statistics | 291.7 | 184.6 | 129.6 | 39.1 | 645.0 |
| change on previous month | -14.1 | -10.8 | -2.5 | -3.0 | -30.4 |
| Source: Bloomberg, Macquarie Rese | earch estimates, Sept | ember 2008 | | | |

On the currency front, US\$ weakness is currently working to support oil prices after a period when US\$ strength was a factor in the sharp oil-price decline. Our economists are looking for some further US\$ strengthening and this may tend to limit the upside in oil prices. Any actions that pushed the US\$ up sharply against major currencies could trigger a fall back to US\$100/bbl or lower.

29 September 2008

Finally, the short-term oil price will continue to be hostage to political events such as attacks on Nigerian oil installations and threats to restrict supplies by some OPEC countries. However, in the past few months these factors have had a much lesser impact on oil prices. This may be due to the fact that falling or slowing demand means that these threats are seen as less of a problem especially as the US government appears to be more willing to use the SPR to alleviate short-term crises.

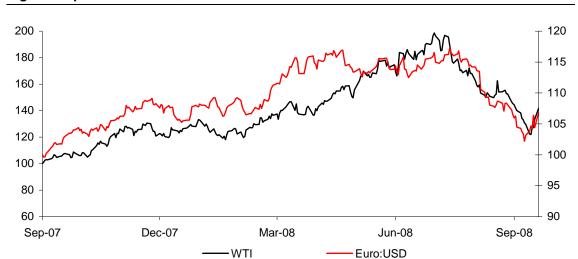


Fig 7 Oil price vs euro:US\$

Source: Bloomberg, Macquarie Research estimates, September 2008

Longer-term outlook

For the longer term, the key factors will be the return to stronger growth in oil demand and the balance between demand growth and supply growth.

At present we are still of the view that the slowdown in world economies is still not complete and that growth in oil demand will be limited in 2008–10. This will have the result of boosting world inventory levels as supply growth, although limited, will tend to outstrip demand growth. Any additions to OPEC production may also tend to add to the bank of spare capacity.

These demand/supply assumptions appear to be a common factor in forecasts with both the International Energy Agency (IEA) and the Energy Information Administration (EIA) looking for demand to grow by around 1% in 2008 and 2009 but supply to grow by over 2% in 2008 and by 1.5–2.0% in 2009. For 2008, the IEA figures indicate a large addition to stocks but the EIA shows a small stock reduction. In both cases, the forecasts result is an addition to stocks in 2009. Our forecast shows an addition to world stocks in both years.

In the Macquarie and EIA forecasts, the assumption is that OPEC produces 32.0–32.5m b/d of oil in both 2008 and 2009. The IEA does not forecast OPEC oil production. We have used the Macquarie forecast for OPEC oil to produce a final result. At present, OPEC is producing around 32.6m b/d. Recently, there has been talk of cutting output back to quota levels. This would cut total output to around 32.0m b/d. At this level, the surplus supply in the Macquarie and IEA forecasts would be cut back to 0.20m b/d and 0.65m b/d, respectively. The EIA figures would be unchanged. (NB Indonesia has suspended its membership of OPEC. At present we have left Indonesian output within OPEC rather than transfer it to the non-OPEC category.)

Given the track record of OPEC, we do not expect that total production will be cut back to quotas. Any reductions in total OPEC oil supply are more likely to be the result of difficulties in holding Iraqi output up at current levels rather than any concerted effort by the OPEC-11 to restrict supply.

Fig 8 Oil demand/supply forecast

| | | 2008F | | | 2009F | |
|-----------------------------|----------------|-------|--------|-----------|---------------|-------|
| | Macquarie | IEA | EIA | Macquarie | IEA | EIA |
| Demand | | | | | | |
| N.America | 24.68 | 24.48 | 24.93 | 24.84 | 24.51 | 24.82 |
| Europe | 16.53 | 16.01 | 16.02 | 16.53 | 15.98 | 15.96 |
| Asia/Pacific | 25.88 | 26.26 | 25.57 | 26.36 | 26.46 | 25.82 |
| -Japan | 5.23 | 5.05 | 5.02 | 5.29 | 4.93 | 4.87 |
| -China | 8. <i>4</i> 3 | 7.96 | 8.02 | 9.07 | 8. 4 2 | 8.42 |
| Rest of World | 15.07 | 15.88 | 15.55 | 15.22 | 16.47 | 16.26 |
| Total ex FSU | 82.16 | 82.63 | 82.07 | 82.95 | 83.42 | 82.86 |
| FSU | 4.19 | 4.23 | 4.41 | 4.26 | 4.37 | 4.54 |
| Total world demand | 86.35 | 86.86 | 86.48 | 87.21 | 87.79 | 87.40 |
| annual growth | +0.4% | +1.0% | +0.8% | +1.0% | +1.1% | +1.1% |
| Supply | | | | | | |
| Non-OPEC | 34.95 | 34.87 | 36.45 | 35.05 | 35.21 | 36.98 |
| OPEC- oil | 32.25 | 32.25 | 32.53 | 32.35 | 32.35 | 32.05 |
| OPEC - NGLs | 5.10 | 5.13 | 4.71 | 5.55 | 5.93 | 5.68 |
| FSU | 12.90 | 12.98 | 12.59 | 13.05 | 13.26 | 12.94 |
| Refinery gain | 2.00 | 2.24 | - | 2.02 | 2.29 | - |
| Total world supply | 87.20 | 87.47 | 86.28 | 88.02 | 89.04 | 87.65 |
| annual growth | +2.4% | +2.3% | +2.2% | +0.9% | +1.8% | +1.6% |
| Surplus supply/(demand) | 0.86 | 0.61 | (0.20) | 0.81 | 1.25 | 0.25 |
| Source: Macquarie Research, | September 2008 | | | | | |

Fig 9 OPEC production

| | | | | | | | Average | 2008 |
|--------------------------------|------------------|-----------------|-------|-------|-------|--------|--------------|--------|
| million b/d | 2006 | 2007 | 1Q | 2Q | July | August | 2008 to date | Target |
| Saudi Arabia | 9.22 | 8.68 | 9.20 | 9.29 | 9.60 | 9.50 | 9.32 | 8.94 |
| Iran | 3.85 | 3.89 | 4.00 | 3.84 | 3.98 | 4.08 | 3.95 | 3.82 |
| Iraq | 1.90 | 2.09 | 2.35 | 2.46 | 2.46 | 2.31 | 2.40 | na |
| Kuwait | 2.49 | 2.42 | 2.53 | 2.57 | 2.60 | 2.60 | 2.56 | 2.53 |
| UAE | 2.56 | 2.49 | 2.58 | 2.63 | 2.65 | 2.66 | 2.62 | 2.57 |
| Qatar | 0.81 | 0.81 | 0.83 | 0.86 | 0.88 | 0.88 | 0.85 | 0.83 |
| Total Mid-East | 20.83 | 20.37 | 21.49 | 21.65 | 22.17 | 22.03 | 21.70 | 18.69 |
| Angola | 1.42 | 1.64 | 1.87 | 1.90 | 1.91 | 1.88 | 1.89 | 1.90 |
| Nigeria | 2.20 | 2.15 | 2.05 | 1.86 | 1.93 | 1.90 | 1.95 | 2.16 |
| Algeria | 1.38 | 1.36 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.36 |
| Libya | 1.70 | 1.70 | 1.78 | 1.75 | 1.65 | 1.63 | 1.73 | 1.71 |
| Indonesia | 0.89 | 0.83 | 0.86 | 0.86 | 0.87 | 0.87 | 0.86 | 0.87 |
| Ecuador | = | 0.12 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Venezuela | 2.55 | 2.41 | 2.40 | 2.33 | 2.34 | 2.36 | 2.36 | 2.47 |
| Total OPEC | 30.96 | 30.59 | 32.35 | 32.26 | 32.78 | 32.58 | 32.40 | na |
| Total ex Iraq and Indonesia | 28.17 | 27.67 | 29.15 | 28.94 | 29.45 | 29.40 | 29.14 | 28.79 |
| Source: Bloomberg, Macquarie R | esearch estimate | es, September 2 | 2008 | | | | | |

| Califi Ilidia (CAIN II | 1, Outp | | | | | | | | | | |
|------------------------|---------|---------|---------|---------|---------|--------------------------|---|---------|---------|---------|---------|
| Balance Sheet | | 2007A | 2008E | 2009E | 2010E | Profit & Loss | | 2007A | 2008E | 2009E | 2010E |
| Cash | m | 13,318 | 34,462 | 2,399 | 30,416 | Revenue | m | 10,123 | 17,517 | 48,531 | 90,966 |
| Receivables | m | 1,349 | 4,799 | 13,296 | 18,692 | Gross Profit | m | 9,007 | 16,272 | 45,344 | 81,315 |
| Inventories | m | 1,216 | 9,598 | 19,944 | 24,922 | Cost of Goods Sold | m | 1,115 | 1,245 | 3,187 | 9,650 |
| Investments | m | 7,129 | 7,129 | 7,129 | 7,129 | EBITDA | m | 4,096 | 11,671 | 38,013 | 61,250 |
| Fixed Assets | m | 29,546 | 69,580 | 106,281 | 102,081 | Depreciation | m | 2,077 | 2,766 | 4,168 | 4,966 |
| Intangibles | m | 253,193 | 253,193 | 253,193 | 253,193 | Amortisation of Goodwill | m | 0 | 0 | 0 | 0 |
| Other Assets | m | 4,650 | 4,650 | 4,650 | 4,650 | Other Amortisation | m | 0 | 0 | 0 | 0 |
| Total Assets | m | 310,401 | 383,411 | 406,892 | 441,081 | EBIT | m | 2,019 | 8,906 | 33,845 | 56,284 |
| Payables | m | 3,921 | 27,579 | 21,485 | 28,115 | Net Interest Income | m | -27 | -200 | -373 | -1,656 |
| Short Term Debt | m | 0 | 0 | 0 | 0 | Associates | m | 0 | 0 | 0 | 0 |
| Long Term Debt | m | 3,124 | 43,124 | 43,124 | 23,124 | Exceptionals | m | 0 | 0 | 0 | 0 |
| Provisions | m | 3,680 | 3,680 | 3,680 | 3,680 | Forex Gains / Losses | m | 0 | 0 | 0 | 0 |
| Other Liabilities | m | 5,687 | 5,687 | 5,687 | 5,687 | Other Pre-Tax Income | m | 1,324 | 1,324 | 1,324 | 1,324 |
| Total Liabilities | m | 16,413 | 80,071 | 73,976 | 60,606 | Pre-Tax Profit | m | 3,316 | 10,030 | 34,795 | 55,952 |
| Shareholders' Funds | m | 293,988 | 303,340 | 332,916 | 380,475 | Tax Expense | m | -1,505 | -1,504 | -5,219 | -8,393 |
| Minority Interests | m | 0 | 0 | 0 | 0 | Net Profit | m | 1,812 | 8,525 | 29,576 | 47,559 |
| Other | m | 0 | 0 | 0 | 0 | Minority Interests | m | 0 | 0 | 0 | 0 |
| Total S/H Equity | m | 293,988 | 303,340 | 332,916 | 380,475 | | | | | | |
| Total Liab & S/H Funds | m | 310,401 | 383,411 | 406,892 | 441,081 | Reported Earnings | m | -245 | 8,525 | 29,576 | 47,559 |
| | | | | | | Adjusted Earnings | m | 1,812 | 8,525 | 29,576 | 47,559 |
| | | | | | | EPS (rep) | | -0.14 | 4.83 | 16.75 | 26.94 |
| | | | | | | EPS (adi) | | 1.03 | 4.83 | 16.75 | 26.94 |
| | | | | | | EPS Growth (adj) | % | nmf | 370.6 | 246.9 | 60.8 |
| | | | | | | PE (rep) | X | nmf | 45.1 | 13.0 | 8.1 |
| | | | | | | PE (adj) | x | 212.3 | 45.1 | 13.0 | 8.1 |
| | | | | | | Total DPS | | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | Total Div Yield | % | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | Weighted Average Shares | m | 1,765 | 1.765 | 1,765 | 1,765 |
| | | | | | | Period End Shares | m | 1,765 | 1,765 | 1,765 | 1,765 |
| | | | | | | | | , | , | , | , |
| Profit and Loss Ratios | | 2007A | 2008E | 2009E | 2010E | Cashflow Analysis | | 2007A | 2008E | 2009E | 2010E |
| Revenue Growth | % | 2,512.8 | 73.0 | 177.1 | 87.4 | EBITDA | m | 4,096 | 11,671 | 38,013 | 61,250 |
| EBITDA Growth | % | nmf | 184.9 | 225.7 | 61.1 | Tax Paid | m | -1,505 | -1,504 | -5,219 | -8,393 |
| EBIT Growth | % | nmf | 341.1 | 280.0 | 66.3 | Chgs in Working Cap | m | 0 | 0 | 0 | 0 |
| Gross Profit Margin | % | 89.0 | 92.9 | 93.4 | 89.4 | Net Interest Paid | m | -27 | -200 | -373 | -1,656 |
| EBITDA Margin | % | 40.5 | 66.6 | 78.3 | 67.3 | Other | m | 0 | 0 | 0 | 0 |
| EBIT Margin | % | 19.9 | 50.8 | 69.7 | 61.9 | Operating Cashflow | m | 2,565 | 9,967 | 32,420 | 51,201 |
| Net Profit Margin | % | 17.9 | 48.7 | 60.9 | 52.3 | Acquisitions | m | 0 | 0 | 0 | 0 |
| Payout Ratio | % | 0.0 | 0.0 | 0.0 | 0.0 | Capex | m | -3,829 | -42,800 | -40,869 | -765 |
| EV/EBITDA | x | 93.7 | 32.9 | 10.1 | 6.3 | Asset Sales | m | 0 | 0 | 0 | 0 |
| EV/EBIT | Х | 190.1 | 43.1 | 11.3 | 6.8 | Other | m | 0 | 0 | 0 | 0 |
| | | | | | | Investing Cashflow | m | -3,829 | -42,800 | -40,869 | -765 |
| Balance Sheet Ratios | | | | | | Dividend (Ordinary) | m | 0 | 0 | 0 | 0 |
| ROE | % | 0.6 | 2.9 | 9.3 | 13.3 | Equity Raised | m | 733 | -0 | -0 | -0 |
| ROA | % | 0.6 | 2.6 | 8.6 | 13.3 | Debt Movements | m | -2,055 | 40,000 | 0 | -20,000 |
| ROIC | % | 0.5 | 2.7 | 9.2 | 12.8 | Other | m | 0 | 0 | 0 | 0 |
| Net Debt/Equity | % | -3.5 | 2.9 | 12.2 | -1.9 | Financing Cashflow | m | -1,322 | 40,000 | -0 | -20,000 |
| Interest Cover | X | 74.6 | 44.5 | 90.7 | 34.0 | 1 | | • | * | | • |
| Price/Book | х | 1.3 | 1.3 | 1.2 | 1.0 | Net Chg in Cash/Debt | m | -41,006 | 21,144 | -32,063 | 28,017 |
| Book Value per Share | | 166.5 | 171.8 | 188.6 | 215.5 | | | • | • | , | • |
| | | | | | | | | | | | |

All figures in INR unless noted. Source: Macquarie Research, September 2008

29 September 2008

Important disclosures:

Recommendation definitions

Macquarie - Australia/New Zealand

Outperform – return >5% in excess of benchmark return (>2.5% in excess for listed property trusts)

Neutral – return within 5% of benchmark return (within 2.5% for listed property trusts)

Underperform – return >5% below benchmark return (>2.5% below for listed property trusts)

Macquarie - Asia/Europe

Outperform – expected return >+10% Neutral – expected return from -10% to +10% Underperform – expected return <-10%

Macquarie First South - South Africa

Outperform – expected return >+10% Neutral – expected return from -10% to +10% Underperform – expected return <-10%

Macquarie - Canada

Outperform – return >5% in excess of benchmark return Neutral – return within 5% of benchmark return Underperform – return >5% below benchmark return

Macquarie - USA

Outperform (Buy) – return >5% in excess of benchmark return

Neutral (Hold) – return within 5% of benchmark return Underperform (Sell)– return >5% below benchmark return

Recommendations - 12 months

Note: Quant recommendations may differ from Fundamental Analyst recommendations

Volatility index definition*

This is calculated from the volatility of historic price movements.

Very high-highest risk – Stock should be expected to move up or down 60–100% in a year – investors should be aware this stock is highly speculative.

High – stock should be expected to move up or down at least 40–60% in a year – investors should be aware this stock could be speculative.

Medium – stock should be expected to move up or down at least 30–40% in a year.

Low-medium – stock should be expected to move up or down at least 25–30% in a year.

Low – stock should be expected to move up or down at least 15–25% in a year.

* Applicable to Australian/NZ stocks only

Financial definitions

All "Adjusted" data items have had the following adjustments made:

Added back: goodwill amortisation, provision for catastrophe reserves, IFRS derivatives & hedging, IFRS impairments & IFRS interest expense Excluded: non recurring items, asset revals, property revals, appraisal value uplift, preference dividends & minority interests

EPS = adjusted net profit / efpowa*

ROA = adjusted ebit / average total assets
ROA Banks/Insurance = adjusted net profit /average
total assets

ROE = adjusted net profit / average shareholders funds Gross cashflow = adjusted net profit + depreciation *equivalent fully paid ordinary weighted average number of shares

All Reported numbers for Australian/NZ listed stocks are modelled under IFRS (International Financial Reporting Standards).

Recommendation proportions - For quarter ending 30 June 2008

| | AU/NZ | Asia | RSA | USA | CA | EUR |
|--------------|--------|--------|--------|--------|--------|--------|
| Outperform | 41.88% | 66.96% | 66.13% | 50.82% | 71.01% | 43.00% |
| Neutral | 42.96% | 16.30% | 22.58% | 44.26% | 24.64% | 48.00% |
| Underperform | 15.16% | 16.74% | 11.29% | 4.92% | 4.35% | 9.00% |

Analyst Certification: The views expressed in this research accurately reflect the personal views of the analyst(s) about the subject securities or issuers and no part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations or views in this research. The analyst principally responsible for the preparation of this research receives compensation based on overall revenues of Macquarie Group Ltd ABN 94 122 169 279 (AFSL No. 318062)(MGL) and its related entities (the Macquarie Group) and has taken reasonable care to achieve and maintain independence and objectivity in making any recommendations.

Disclaimers: Macquarie Securities (Australia) Ltd; Macquarie Capital (Europe) Ltd; Macquarie Capital Markets Canada Ltd; Macquarie Capital Markets North America Ltd; Macquarie Capital (USA) Inc; Macquarie Capital Securities Ltd; Macquarie Capital Securities (Singapore) Pte Ltd; Macquarie Securities (NZ) Ltd; and Macquarie First South Securities (Pty) Limited are not authorised deposit-taking institutions for the purposes of the Banking Act 1959 (Commonwealth of Australia), and their obligations do not represent deposits or other liabilities of Macquarie Bank Limited ABN 46 008 583 542 (MBL) or MGL. MBL does not guarantee or otherwise provide assurance in respect of the obligations of any of the above mentioned entities. MGL provides a guarantee to the Monetary Authority of Singapore in respect of the obligations and liabilities of Macquarie Capital Securities (Singapore) Pte Ltd for up to SGD 35 million. This research has been prepared for the general use of the wholesale clients of the Macquarie Group and must not be copied, either in whole or in part, or distributed to any other person. If you are not the intended recipient you must not use or disclose the information in this research in any way. Nothing in this research shall be construed as a solicitation to buy or sell any security or product, or to engage in or refrain from engaging in any transaction. In preparing this research, we did not take into account the investment objectives, financial situation and particular needs of the reader. Before making an investment decision on the basis of this research, the reader needs to consider, with or without the assistance of an adviser, whether the advice is appropriate in light of their particular investment needs, objectives and financial circumstances. There are risks involved in securities trading. The price of securities can and does fluctuate, and an individual security may even become valueless. International investors are reminded of the additional risks inherent in international investments, such as currency fluctuations and international stock market or economic conditions, which may adversely affect the value of the investment. This research is based on information obtained from sources believed to be reliable but we do not make any representation or warranty that it is accurate, complete or up to date. We accept no obligation to correct or update the information or opinions in it. Opinions expressed are subject to change without notice. No member of the Macquarie Group accepts any liability whatsoever for any direct, indirect, consequential or other loss arising from any use of this research and/or further communication in relation to this research.

Other Disclaimers: In Canada, securities research is prepared, approved and distributed by Macquarie Capital Markets Canada Ltd, a participating organisation of the Toronto Stock Exchange, TSX Venture Exchange & Montréal Exchange. Macquarie Capital Markets North America Ltd., which is a registered broker-dealer and member of FINRA, accepts responsibility for the contents of reports issued by Macquarie Capital Markets Canada Ltd in the United States and to US persons and any person wishing to effect transactions in the securities described in the reports issued by Macquarie Capital Markets Canada Ltd should do so with Macquarie Capital Markets North America Ltd. Securities research is issued and distributed by Macquarie Securities (Australia) Ltd (AFSL No. 238947) in Australia, a participating organisation of the Australian Securities Exchange; Macquarie Securities (NZ) Ltd in New Zealand, a licensed sharebroker and New Zealand Exchange Firm; Macquarie Capital (Europe) Ltd in the United Kingdom, which is authorised and regulated by the Financial Services Authority (No. 193905); Macquarie Capital Securities Ltd in Hong Kong, which is licensed and regulated by the Securities and Futures Commission; Macquarie Capital Securities (Japan) Limited in Japan, a member of the Tokyo Stock Exchange, Inc., Osaka Securities Exchange Co. Ltd, and Jasdaq Securities Exchange, Inc. (Financial Instruments Firm, Kanto Financial Bureau(kinsho) No. 231, a member of Japan securities Dealers Association and Financial Futures Association of Japan); Macquarie First South Securities (Pty) Limited in South Africa, a member of the JSE Limited and in Singapore, Macquarie Capital Securities (Singapore) Pte Ltd (Company Registration Number: 198702912C), a Capital Markets Services licence holder under the Securities and Futures Act to deal in securities and provide custodial services in Singapore. Pursuant to the Financial Advisers (Amendment) Regulations 2005, Macquarie Capital Securities (Singapore) Pte Ltd is exempt from complying with sections 25, 27 and 36 of the Financial Advisers Act. Clients should contact analysts at, and execute transactions through, a Macquarie Group entity in their home jurisdiction unless governing law permits otherwise. Macquarie Capital (USA) Inc., which is a registered brokerdealer and member of FINRA, accepts responsibility for the content of each research report prepared by one of its non-US affiliates when the research report is distributed in the United States by Macquarie Capital (USA) Inc. Macquarie Capital (USA) Inc. affiliate research reports and affiliate employees are not subject to the disclosure requirements of FINRA rules. Any persons receiving this report directly from Macquarie Capital (USA) Inc. and wishing

to effect a transaction in any security described herein should do so with Macquarie Capital (USA) Inc. The information contained in this document is confidential. If you are not the intended recipient, you must not disclose or use the information in this document in any way. If you received it in error, please tell us immediately by return e-mail and delete the document. We do not guarantee the integrity of any e-mails or attached files and are not responsible for any changes made to them by any other person. MGL has established and implemented a conflicts policy at group level (which may be revised and updated from time to time) (the "Conflicts Policy") pursuant to regulatory requirements (including the FSA Rules) which sets out how we must seek to identify and manage all material conflicts of interest. Disclosures with respect to the issuers, if any, mentioned in this research are available at www.macquarie.com/research/disclosures. © Macquarie Group

| Auckland | Bangkok | Calgary | Hong Kong | Jakarta | Johannesburg Tel: (27 11) 343 2258 | Kuala Lumpur |
|------------------------|----------------------|-----------------------|------------------------|------------------------|-------------------------------------------|-----------------------|
| Tel: (649) 377 6433 | Tel: (662) 694 7999 | Tel: (1 403) 218 6650 | Tel: (852) 2823 3588 | Tel: (62 21) 515 1818 | | Tel: (60 3) 2059 8833 |
| London | Manila | Melbourne | Montreal | Mumbai | Perth Tel: (618) 9224 0888 | Seoul |
| Tel: (44 20) 3037 4400 | Tel: (63 2) 857 0888 | Tel: (613) 9635 8139 | Tel: (1 514) 925 2850 | Tel: (91 22) 6653 3000 | | Tel: (82 2) 3705 8500 |
| Shanghai | Singapore | Sydney | Taipei | Tokyo | Toronto Tel: (1 416) 848 3500 | New York |
| Tel: (86 21) 6841 3355 | Tel: (65) 6231 1111 | Tel: (612) 8232 9555 | Tel: (886 2) 2734 7500 | Tel: (81 3) 3512 7900 | | Tel: (1 212) 231 2500 |

Available to clients on the world wide web at www.macquarie.com/research and through Thomson Financial, FactSet, Reuters and Bloomberg.

Macquarie Research **Equities**





Asia Research

| Head of Equity I | Research |
|------------------|----------|
|------------------|----------|

| riedd o'i Equity Nesearch | |
|---------------------------|------------------|
| Stephen O'Sullivan | (852) 2823 3566 |
| Automobiles/Auto Parts | |
| Deepak Jain (India) | (9122) 6653 3157 |
| Kenneth Yap (Indonesia) | (6221) 515 7343 |
| Adam Collins (Japan) | (813) 3512 6047 |
| Dan Lucas (Japan) | (813) 3512 6050 |
| Toshisuke Hayami (Japan) | (813) 3512 7873 |
| Eunsook Kwak (Korea) | (822) 3705 8644 |
| Linda Huang (Taiwan) | (8862) 2734 7521 |
| | |

Banks and Non-Bank Financials

| Ismael Pili (Asia) | (65) 6231 2840 |
|------------------------------------|------------------|
| Nick Lord (Asia, China, Hong Kong) | (852) 2823 4774 |
| Sarah Wu (China) | (8621) 2412 9035 |
| Seshadri Sen (India) | (9122) 6653 3053 |
| Ferry Wong (Indonesia) | (6221) 515 7335 |
| Chin Seng Tay (Malaysia, S'pore) | (65) 6231 2837 |
| Nadine Javellana (Philippines) | (632) 857 0890 |
| Matthew Smith (Taiwan) | (8862) 2734 7514 |
| Alastair Macdonald (Thailand) | (662) 694 7741 |

Chemicals/Textiles

| Scott Weaver (Taiwan) | (8862) 2734 7512 |
|----------------------------|------------------|
| Jal Irani (India) | (9122) 6653 3040 |
| Christina Lee (Korea) | (822) 3705 8670 |
| Sunaina Dhanuka (Malaysia) | (603) 2059 8993 |

Conglomerates

| Gary Pinge (Asia) | (852) 2823 3557 |
|----------------------------|------------------|
| Leah Jiang (China) | (8621) 2412 9020 |
| Kenneth Yap (Indonesia) | (6221) 515 7343 |
| Ashwin Sanketh (Singapore) | (65) 6231 2830 |

Consumer

| Mohan Singh (Asia) | (852) 3901 1111 |
|--------------------------------|------------------|
| Jessie Qian (China, Hong Kong) | (852) 2823 3568 |
| Charles Yan (China) | (8621) 2412 9033 |
| Unmesh Sharma (India) | (9122) 6653 3042 |
| Sarina Lesmina (Indonesia) | (6221) 515 7339 |
| Duane Sandberg (Japan) | (813) 3512 7867 |
| Toby Williams (Japan) | (813) 3512 7392 |
| Heather Kang (Korea) | (822) 3705 8677 |
| HongSuk Na (Korea) | (822) 3705 8678 |
| Edward Ong (Malaysia) | (603) 2059 8982 |
| Alex Pomento (Philippines) | (632) 857 0899 |
| Linda Huang (Taiwan) | (8862) 2734 7521 |

Emerging Leaders

| Jake Lynch (Asia) | (8621) 2412 9007 |
|-------------------------|------------------|
| Hiu-Lui Ko (China) | (852) 2823 4704 |
| Minoru Tayama (Japan) | (813) 3512 6058 |
| Robert Burghart (Japan) | (813) 3512 7853 |
| Heather Kang (Korea) | (822) 3705 8677 |
| Scott Weaver (Taiwan) | (8862) 2734 7512 |

| Bin Liu (China) | (8621) 2412 9006 |
|-------------------------------|------------------|
| Inderjeetsingh Bhatia (India) | (9122) 6653 3166 |
| Christopher Cintavey (Japan) | (813) 3512 7432 |
| Janet Lewis (Japan) | (813) 3512 7475 |
| Michael Na (Korea) | (822) 2095 7222 |
| Sunaina Dhanuka (Malaysia) | (603) 2059 8993 |
| David Gambrill (Thailand) | (662) 694 7753 |

Insurance

| Mark Kellock (Asia) | (852) 2823 3567 |
|--------------------------------|------------------|
| Seshadri Sen (Asia, India) | (9122) 6653 3053 |
| Makarim Salman (Japan) | (813) 3512 7421 |
| Media | • |
| Jessie Qian (China, Hong Kong) | (852) 2823 3568 |
| Shubham Majumder (India) | (9122) 6653 3049 |
| Prem Jearaiasingam (Malaysia) | (603) 2059 8989 |

(632) 857 0899

Alex Pomento (Philippines) Oil and Gas

| David Johnson (Asia, China) | (852) 2823 4691 |
|-----------------------------|------------------|
| Scott Weaver (Taiwan) | (8862) 2734 7512 |
| Jal Irani (India) | (9122) 6653 3040 |
| Christina Lee (Korea) | (822) 3705 8670 |
| Edward Ong (Malaysia) | (603) 2059 8982 |
| Sunaina Dhanuka (Malaysia) | (603) 2059 8993 |
| Ashwin Sanketh (Singapore) | (65) 6231 2830 |
| Trevor Buchinski (Thailand) | (662) 694 7728 |
| | |

Pharmaceuticals

| Abhishek Singhal (India) | (9122) 6653 3052 |
|--------------------------|------------------|
| Naomi Kumagai (Japan) | (813) 3512 7474 |
| Christina Lee (Korea) | (822) 3705 8670 |

Property

| Matt Nacard (Asia) | (852) 2823 4731 |
|--------------------------------|------------------|
| Eva Lee (China, Hong Kong) | (852) 2823 3573 |
| Tata Goeyardi (Hong Kong) | (852) 2823 4077 |
| Unmesh Sharma (India) | (9122) 6653 3042 |
| Chang Han Joo (Japan) | (813) 3512 7885 |
| Hiroshi Okubo (Japan) | (813) 3512 7433 |
| Tuck Yin Soong (Singapore) | (65) 6231 2838 |
| Elaine Cheong (Singapore) | (65) 6231 2839 |
| Corinne Jian (Taiwan) | (8862) 2734 7522 |
| Patti Tomaitrichitr (Thailand) | (662) 694 7727 |

Resources / Metals and Mining

| Andrew Dale (Asia) | (852) 2823 3587 |
|------------------------------|------------------|
| YeeMan Chin (China) | (852) 2823 3562 |
| Rakesh Arora (India) | (9122) 6653 3054 |
| Adam Worthington (Indonesia) | (6221) 515 7338 |
| Polina Diyachkina (Japan) | (813) 3512 7886 |
| Christina Lee (Korea) | (822) 3705 8670 |
| Scott Weaver (Taiwan) | (8862) 2734 7512 |

Technology

| Warren Lau (Asia) | (852) 2823 3592 |
|---------------------------|------------------|
| Kishore Belai (India) | (9122) 6653 3046 |
| Damian Thong (Japan) | (813) 3512 7877 |
| David Gibson (Japan) | (813) 3512 7880 |
| George Chang (Japan) | (813) 3512 7854 |
| Yoshihiro Shimada (Japan) | (813) 3512 7862 |
| Yukihiro Goto (Japan) | (813) 3512 5984 |
| Do Hoon Lee (Korea) | (822) 3705 8641 |
| Michael Bang (Korea) | (822) 3705 8659 |
| Patrick Yau (Singapore) | (65) 6231 2835 |
| Andy Kung (Taiwan) | (8862) 2734 7534 |
| Chia-Lin Lu (Taiwan) | (8862) 2734 7526 |
| Daniel Chang (Taiwan) | (8862) 2734 7516 |
| James Chiu (Taiwan) | (8862) 2734 7517 |
| Nicholas Teo (Taiwan) | (8862) 2734 7523 |
| T-1 | |

Telecoms

| Tim Smart (Asia, China) | (852) 2823 3565 |
|------------------------------------|------------------|
| Shubham Majumder (India) | (9122) 6653 3049 |
| Kenneth Yap (Indonesia) | (6221) 515 7343 |
| Nathan Ramler (Japan) | (813) 3512 7875 |
| Prem Jearajasingam (Malaysia) | (603) 2059 8989 |
| Ramakrishna Maruvada | ` ' |
| (Philippines, Singapore, Thailand) | (65) 6231 2842 |
| | |

Transport & Infrastructure

| Anderson Chow (Asia, China) | (852) 2823 4773 |
|--------------------------------|-----------------|
| Jonathan Windham (Asia, China) | (852) 2823 5417 |
| Tim Bacchus (Asia, China) | (852) 2823 3586 |
| Wei Sim (China, Hong Kong) | (852) 2823 3598 |
| Eunsook Kwak (Korea) | (822) 3705 8644 |
| Sunaina Dhanuka (Malaysia) | (603) 2059 8993 |
| | |

Utilities

| Carol Cao (China, Hong Kong) | (852) 2823 4075 |
|-------------------------------|------------------|
| Deepak Jain (India) | (9122) 6653 3157 |
| Adam Worthington (Indonesia) | (6221) 515 7338 |
| Prem Jearajasingam (Malaysia) | (603) 2059 8989 |
| Alex Pomento (Philippines) | (632) 857 0899 |

Commodities

| Jim Lennon | (4420) 7065 2014 |
|------------------|------------------|
| Adam Rowley | (4420) 7065 2013 |
| Jonathan Butcher | (4420) 7065 5938 |
| Max Layton | (4420) 7065 2000 |
| Bonnie Liu | (8621) 2412 9008 |
| Henry Liu | (8621) 2412 9005 |
| Rakesh Arora | (9122) 6653 3054 |

Data Services

| Andrea Clohessy (Asia) | (852) 2823 4076 |
|------------------------|-----------------|

Economics

| Bill Belchere (Asia) | (852) 2823 4636 |
|-----------------------------|-----------------|
| Rajeev Malik (ASEAN, India) | (65) 6231 2841 |
| Richard Gibbs (Australia) | (612) 8232 3935 |
| Paul Cavey (China) | (852) 2823 3570 |
| Richard Jerram (Japan) | (813) 3512 7855 |

Quantitative

| Martin Emery (Asia) | (852) 2823 3582 |
|------------------------------|-----------------|
| Viking Kwok (Asia) | (852) 2823 4735 |
| George Platt (Australia) | (612) 8232 6539 |
| Raelene de Souza (Australia) | (612) 8232 8388 |
| Tsumuqi Akiba (Japan) | (813) 3512 7560 |

Strategy/Country

| Tim Rocks (Asia) | (852) 2823 3585 |
|-----------------------------------|------------------|
| Daniel McCormack (Asia) | (852) 2823 4073 |
| Desh Peramunetilleke (Asia) | (852) 2823 3564 |
| Mahesh Kedia (Asia) | (852) 2823 3576 |
| Stewart Ferns (Asia) | (852) 2823 4068 |
| Michael Kurtz (China) | (8621) 2412 9002 |
| Seshadri Sen (India) | (9122) 6653 3053 |
| Ferry Wong (Indonesia) | (6221) 515 7335 |
| Chris Hunt (Japan) | (813) 3512 7878 |
| Peter Eadon-Clarke (Japan) | (813) 3512 7850 |
| Eugene Ha (Korea) | (822) 3705 8643 |
| Prem Jearajasingam (Malaysia) | (603) 2059 8989 |
| Edward Ong (Malaysia) | (603) 2059 8982 |
| Alex Pomento (Philippines) | (632) 857 0899 |
| Tuck Yin Soong (ASEAN, Singapore) | (65) 6231 2838 |
| Daniel Chang (Taiwan) | (8862) 2734 7516 |
| Alastair Macdonald (Thailand) | (662) 694 7741 |

Find our research at

| Λ | lacquarie: | www.macquarie.com.au/research |
|---|------------|-------------------------------|
| Т | homson: | www.thomson.com/financial |
| F | Reuters: | www.knowledge.reuters.com |
| - | loombora: | MACCO |

Factset: http://www.factset.com/home.aspx Email macresearch@macquarie.com for access

Sales

Regional Heads of Sales

| · · | |
|-------------------------------------|-------------------|
| Peter Slater (Boston) | (1 617) 217 2103 |
| Michelle Paisley (China, Hong Kong) | (852) 2823 3516 |
| Ulrike Pollak-Tsutsumi (Frankfurt) | (49) 69 7593 8747 |
| Thomas Renz (Geneva) | (41) 22 818 7712 |
| Ajay Bhatia (India) | (9122) 6653 3200 |
| Stuart Smythe (India) | (9122) 6653 3200 |
| Chris Gray (Indonesia) | (6221) 515 7304 |
| K.Y. Nam (Korea) | (822) 3705 8607 |
| Lena Yong (Malaysia) | (603) 2059 8888 |
| Gino C Rojas (Philippines) | (632) 857 0761 |
| Greg Norton-Kidd (New York) | (1 212) 231 2527 |
| Luke Sullivan (New York) | (1 212) 231 2507 |

Regional Heads of Sales cont'd

| Scot Mackie (New York) | (1 212) 231 2848 |
|----------------------------------|-------------------|
| Sheila Schroeder (San Francisco) | (1 415) 835 1235 |
| Giles Heyring (Singapore) | (65) 6231 2888 |
| Mark Duncan (Taiwan) | (8862) 2734 7510 |
| Angus Kent (Thailand) | (662) 694 7601 |
| Michael Newman (Tokyo) | (813) 3512 7920 |
| Charles Nelson (UK/Europe) | (44) 20 7065 2032 |
| Rob Fabbro (UK/Europe) | (44) 20 7065 2031 |
| | |

Sales Trading

| Adam Zaki (North Asia) | (852) 2823 3528 |
|----------------------------------|-----------------|
| Duncan Rutherford (ASEAN, India) | (65) 6231 2888 |
| Mona Lee (Hong Kong) | (852) 2823 3519 |

Sales Trading cont'd

| Stuart Goddard (Europe) | (44) 20 7065 2033 |
|--------------------------|-------------------|
| Brendan Rake (India) | (9122) 6653 3204 |
| Edward Robinson (London) | (44) 20 7065 5883 |
| Robert Risman (New York) | (1 212) 231 2555 |
| Isaac Huang (Taiwan) | (8862) 2734 7582 |
| Jon Omori (Tokyo) | (813) 3512 7838 |

Alternative Strategies

| Convertibles - Roland Sharman | (852) 2823 4628 |
|--------------------------------------|-----------------|
| Depository Receipts - Robert Ansell | (852) 2823 4688 |
| Derivatives - Tim Connolly | (852) 2249 3380 |
| Futures - Tim Smith | (852) 2823 4637 |
| Hedge Fund Sales - Darin Lester | (852) 2823 4736 |
| Structured Products - Andrew Terlich | (852) 2249 3225 |