Macquarie Research **Equities**





INDIA

Gujarat NRE Coke

15 August 2007

GNC IN		Outperform
Stock price as of 14 Aug 07 12-month target Upside/downside Valuation - DCF (WACC 13.4%)	Rs Rs % Rs	57.80 113.00 +95.5 113.00
GICS sector Market cap Market cap Number shares on issue 6 months avg daily turnover	Rs m US\$m m US\$m	materials 15,295 378 264.6 2.9

Investment fundamentals

Year end 31 Mar		2007A	2008E	2009E	2010E
Total revenue	m	5,145	11,575	17,471	17,911
EBIT	m	245	3,360	4,958	5,620
EBIT Growth	%	-74.7	1,273.0	47.6	13.4
Adjusted profit	m	492	1,962	2,487	2,565
EPS adj	Rs	1.50	5.97	7.57	7.81
EPS adj growth	%	-59.8	299.2	26.7	3.1
PE adj	x	38.6	9.7	7.6	7.4
ROE	%	9.3	31.8	30.8	24.7
EV/EBITDA	x	46.9	6.3	4.3	3.8
Price/book	x	3.5	2.7	2.1	1.6

GNC IN rel SENSEX performance, & rec history



Source: Datastream, Macquarie Research, August 2007 (all figures in INR unless noted)

Analyst

Shreyans Jain 91 22 6653 3044 Rakesh Arora, CFA 91 22 6653 3054

shreyans.jain@macquarie.com

rakesh.arora@macquarie.com

Black gold will keep NAV in the black

Event

We initiate coverage on Gujarat NRE Coke (GNC) with an Outperform rating and a target price of Rs113. Our global commodities team is bullish on coal and we think GNC is well placed to take advantage of this through its recent acquisitions of hard coking coal mining assets with resources of around 550mt in Australia. Our NPV analysis suggests that the stock trades at a 49% discount to its fair value, based on conservative estimates of coal production of 70mt over the next 18 years. GNC is India's largest independent low ash metallurgical coke (LAM coke) producer.

Impact

- Strong earnings growth. We forecast strong consolidated EPS growth, rising from Rs1.5 in FY3/07A to Rs6.0 in FY3/08E as a result of high coking coal prices and LAM coke volume expansion from 1mtpa to 1.25mtpa. The real kicker to earnings is the development of 4.5mtpa of hard coking coal production, taking EPS to Rs18 in FY3/11E.
- Attractive valuations. The company owns a majority stake in three hard coking coal mines in Australia through two listed subsidiaries. The market value of these holdings is US\$310m against our NPV calculation of US\$700m. The valuation could rise further after the merger of these subsidiaries as the risk profile declines due to the multi-mine and multi-location characteristics of the company's assets. The geological findings suggest a much higher potential than the 70mt mineable reserves used in our analysis and provide significant potential upside to the NPV.
- No infrastructure constraint. Australia controls 60% of the global coal trade but its exports face logistical constraints, suggesting that higher prices are sustainable into the medium term (refer to Macquarie's report on the Australian coal sector dated 18 June 2007). GNC will export from Port Kembla (currently 0.5mtpa rising to 4.5mtpa in FY3/11), which has sufficient spare capacity, allowing the company to cash in on the high coking coal prices.

Price catalyst

- 12-month price target: Rs113.00 based on a DCF methodology.
- Catalyst: Announcement of merger of two Australian subsidiaries.

Action and recommendation

For investors looking to play the bull run in coal price, GNC offers about 96% upside according to our DCF-based sum-of-the-parts valuation, which compares favourably with its peers. We initiate coverage with an Outperform rating and a target price of Rs113.

Fig 1 How GNC stacks up against its peers

	Price	Rating	PER FY08 (x) EV/EBIT	TDA FY08 (x)
Gujarat NRE Coke (GNC IN)	Rs57.8	Outperform	9.7	6.3
Centennial Coal Co (CEY AU)	AUD3.2	Neutral	22.8	9.4
MacArthur Coal (MCC AU)	AUD6.6	Neutral	19.8	11.8
Resource (Pacific Holdings) RSP A	U AUD1.8	Outperform	10.7	5.9
Source: Macquarie Research,	August 200)7		

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

Company profile

India's largest independent LAM Coke producer

Gujarat NRE Coke (GNC) is India's largest non-captive producer of low-ash metallurgical (LAM) coke with a total capacity of 1.0mtpa. It imports hard coking coal, mainly from Australia, which it converts into LAM coke through destructive distillation of coal. Two of its plants are located in Gujarat in west India, from where it supplies to forging companies, chemical industries and cement manufacturers. One of its plants is located in Karnataka – a joint venture with Kalyani Steels (KS IN, Not rated) – and supplies up to 40% of its produce to its JV partner. Around 70% of the coke is sold through long-term off-take agreements, but the price is revised every month.

De-risking business through backward integration

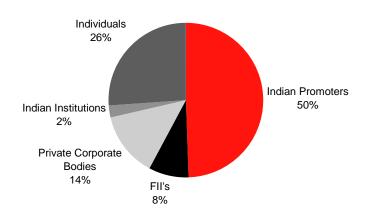
Over the past three years, the company has sought to de-risk its business through backward integration. It has bought hard coking coal mines in New South Wales in Australia, which have combined reserves of ~550mt. They will not only be a captive source for the company's in-house requirement but would also take the company to a new scale through significant addition to the top and bottom lines by sale of coal to other consumers. Major contribution to earnings from these mines will start from FY3/11, when production of 4.5mtpa will come onstream.

Hard coking coal reserves of ~550mt

GNC's mining assets in Australia are owned through two Australian subsidiaries: India NRE minerals Ltd (INML: INR AU, Not rated) and Gujarat NRE Resources NL Ltd (GNRL: GUJ AU, Not rated). These subsidiaries are listed on Australian stock exchange and have a combined market capitalisation of ~US\$310m.

INML owns the NRE No.1 mine, with probable hard coking coal reserves of 300mt. This mine was started in 1887. GNRL controls the Elouera and Avondale mines (which is contiguous to NRE No.1), with probable reserves of 250mt. (For more detailed information on the mines, please refer to Appendices 3 and 4.)

Fig 2 GNC: Shareholding structure as at 30 June 2007



Note: FII = Foreign institutional investors Source: Company data, Macquarie Research, August 2007

Strong earnings growth

Earnings poised to rise sharply

Fully diluted and consolidated EPS should increase from Rs1.5 in FY3/07A to Rs6.0 in FY3/08E because of higher LAM coke prices. During FY3/08–11E, EPS is likely to grow at a CAGR 44.5% owing to production at the mines increasing to 4.5mtpa and capacity expansion in LAM coke production rising from 1.00mtpa to 1.25mtpa.

Fig 3 GNC: Financials - on an upward path

Rs m	2007A	2008E	2009E	2010E	2011E
Consolidated sales	5,145	11,575	17,471	17,911	25,258
Net profit	492	1962	2487	2565	5921
Diluted EPS	1.5	6.0	7.6	7.8	18.0
Source: Company data, Macquarie	Research, August 20	007			

We have used our global commodities team's forecasts of hard coking coal prices in our DCF valuation – they believe prices will remain strong.

Coking coal prices to remain high

Our global commodities team forecasts high coking coal prices for the next three years (refer to their report on the Australian coal sector dated 18 June 2007) on the back of the following:

- China becoming a net importer of coal.
- Cost of marginal Russian supply (accounting for 10% of the market) being uneconomical below US\$45/t, so a return to the sub-US\$35/t level is unlikely.
- Major Australian coal export routes will likely be constrained by infrastructure till 2010.

Fig 4 Hard coking coal prices to remain high

	US\$/tonne
2004A	57.5
2005A	125.0
2006A	115.0
2007E	98.0
2008E	125.0
2009E	105.0
2010E	95.0
2011E	85.0
Sustainable	80.0
Source: Macquarie Research, August 2007	

LAM coke realisations independent of hard coking coal prices

LAM coke has acquired its own demand-supply dynamics over the past few years, and there is very little correlation between the price of LAM coke and hard coking coal.

500 400 300 200 100 Jul-02 Jan-03 Apr-03 Jul-03 Jul-05 4pr-02 Oct-03 Jan-04 Jul-04 Oct-04 Jan-05 Apr-05 Oct-05 coke fob US\$/t Chinese coking coal US\$/t Chinese

Fig 5 Correlation breaking down between coking coal and LAM coke

Source: Company data, Macquarie Research, August 2007

The breaking up of the relationship has made the long-term profitability estimation of Indian operations very difficult. Therefore, backward integration into the hard coking coal mining business was a business necessity for GNC. However, as it stands today, this new business is worth far more than the old coal-to-coke-conversion business.

Also, although the original LAM coke was throwing up large amounts of cash as a result of historically high margins, deployment of cash into further capacity addition was not considered an attractive investment opportunity because it was hard to predict profitability from it. Thus, GNC entered the comparatively more predictable and more profitable related business of hard coking coal mining.

Roughly 1.3 units of hard coking coal are required to produce 1 unit of LAM coke. LAM coke producers earn the spread between the prevailing price of hard coking coal and LAM coke. Historically, there has not been much of a correlation between the prices of these two commodities.

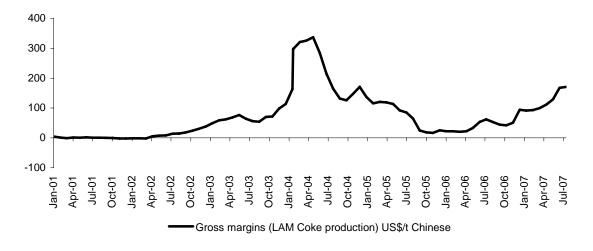


Fig 6 LAM coke production margins tend to be highly volatile

Source: Macquarie Research, August 2007

GNC's margins have not been similar to the above graph, due to freight cost differentials, differences between long-term contracts and spot contracts, and so on.

Attractive valuations

Past transactions point to higher value

Acquisition transactions and attempts over the past five years have taken place at an average US\$/tonne saleable price of US\$155. This multiple represents significant upside to the current price of GNC's mining assets.

Fig 7 Past transactions took place at an average of US\$155/tonne of saleable steel

	Salea	ble production	Bid price	US\$/saleable
Acquirer-target	Interest acquired	(mtpa)	(US\$m)	tonne
Xstrata-Gloucester Coal	100%	2.0	320	160.0
AMCI-Felix	19%	0.7	150	208.3
CVRD-AMCI	100%	8.0	668	83.5
Xstrata-Glencore	100%	8.7	1700	196.2
Peabody-Excel	100%	5.9	1500	253.2
Centennial-Austral	100%	1.7	270	163.5
Centennial-Power Coal	100%	7.7	158	23.3
			Average	155.4

Note: US\$/saleable tonne valuation metrics fail to take into account variances in coal quality/type and reserve life. Source: Various sources, Macquarie Research, August 2007

GNC's Australian mines have resources of approximately 550mt. At 4.5mtpa of production and if we apply the US\$/saleable tonne matrix, the mining assets would be worth US\$675m, more than the current EV of the company. Further, we believe that merger of the two listed mine subsidiaries will boost valuation due to the current discount being given to these single-mine operations.

Fig 8 Abundant mine resources

mt	Measured	Indicated	Inferred
NRE No.1	1.5	139.4	186.9
Elouera	0.9	17.4	44.5
Avondale	2.0	104.7	93.2
Source: Company data, Macquarie Research, August	2007		

We have assumed a conservative mining schedule with cumulative production of 70mt against the resources of 550mt. The mine life and the amount of coal mined are likely to be significantly higher than our assumptions of 18 years and 70mt, respectively.

Fig 9 Production schedule – peaking in 2012

	NRE No.1 (mtpa)	Cumulative production (mtpa)	Avondale and Elouera (mtpa)	Cumulative production (mtpa)	Yearly production (mtpa)		
FY08E	0.5	0.5	-	=	0.5		
FY09E	0.6	1.1	0.5	0.5	1.1		
FY10E	1.0	2.1	0.7	1.2	1.7		
FY11E	2.5	4.6	1.5	2.7	4.0		
FY12E	3.0	7.6	1.5	4.2	4.5		
FY13E	3.0	10.6	1.5	5.7	4.5		
FY14E	3.0	13.6	1.5	7.2	4.5		
FY15E	3.0	16.6	1.5	8.7	4.5		
FY16E	3.0	19.6	1.5	10.2	4.5		
FY17E	3.0	22.6	1.5	11.7	4.5		
FY18E	3.0	25.6	1.5	13.2	4.5		
FY19E	3.0	28.6	1.5	14.7	4.5		
FY20E	3.0	31.6	1.5	16.2	4.5		
FY21E	3.0	34.6	1.5	17.7	4.5		
FY22E	3.0	37.6	1.5	19.2	4.5		
FY23E	3.0	40.6	1.5	20.7	4.5		
FY24E	3.0	43.6	1.5	22.2	4.5		
FY25E	3.0	46.6	1.5	23.7	4.5		
Source: Company data, Macquarie Re	Source: Company data, Macquarie Research, August 2007						

15 August 2007

No infrastructure constraints

Gujarat NRE - advantageously located to reap the benefits of high prices

GNC's mines are located in New South Wales in Australia. The coal will be exported from the nearby Port Kembla. According to our global commodities team, Port Kembla, which is massively underutilised, has a throughput capacity of 16–18mtpa although it exported 10.7mt in 2006, approximately 60% of total capacity. Therefore, Port Kembla has more than 7mt of spare capacity. This should enable GNC to cash in on the high coking coal prices without worrying about logistical constraints. Further, close proximity to the port gives the company a freight-cost advantage.

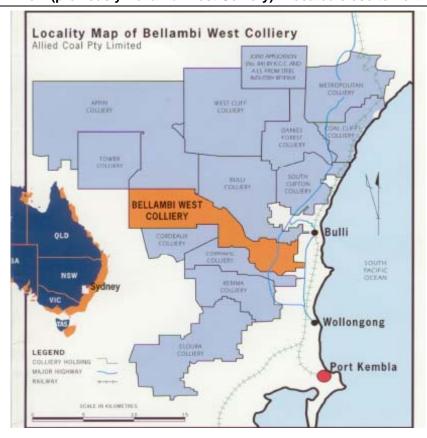


Fig 10 NRE No.1 (previously Bellambi West Colliery) – located close to Port Kembla

Source: Company presentation, July 2007

The other ports of Australia are suffering from insufficient capacity, given the huge demand for commodity exports and inadequate investment over the past few years in infrastructure. All the major ports in Australia that export coal have planned for capacity expansion, but the logistical constraints are likely to remain as the demand that has been forecasted is very strong.

Fig 11 Key Australian ports used for the export of coal

State/port	Annual capacity – coal (mt)	Planned expansion (mt)	Dedicated to coal export?
Queensland			
Abbot Point	15	25, 50 (potential)	Yes
Brisbane	5	5	No
Gladstone	45	72, 90 (potential)	Yes
Hay Point	99	197.5, 55 (potential)	Yes
New South Wales			
Newcastle	102	25, 95 (potential)	Yes
Port Kembla	16	16	No
Australia	282	349.5, 473 (potential)	
Source: Macquarie Research, August 2007			

15 August 2007

Although the ports have planned for capacity expansion over the next 2–3 years, estimated additional demand is likely to soak up almost all the newly added capacity. Our global commodities team believes that the tightness in the coal market due to infrastructure bottlenecks is likely to continue even after 2–3 years.

Fig 12 Estimated additional tonnage through Australia's coal-exporting ports

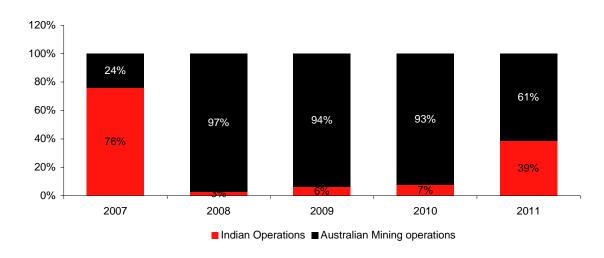
mt	2007	2008	2009	2010	2011	2012
Newcastle additional tonnage	21	31	41	54	57	61
Port Kembla additional tonnage	4	5	5	5	5	5
Abbot point additional tonnage	1	1	1	1	1	1
Dalrymple additional tonnage	4	8	12	14	19	23
Hay point additional tonnage	8	10	12	16	22	22
Gladstone additional tonnage	13	16	22	30	32	32
Brisbane additional tonnage	0	0	0	1	5	10
Total additional tonnage	51	71	93	121	141	154
Source: Macquarie Research, Augu	st 2007					

Financials - growing steadily

Changing business mix - from processing to mining

The company currently derives its revenue predominantly from production of LAM coke in India. But management has been aggressively changing the business mix by investing in high-yielding hard coking coal mining assets in Australia. This is clearly seen when we look at the breakdown of the capital expenditure for last year and the next four years.

Fig 13 Future capex focused on mining rather than processing



Note: FY3/07 capex does not include investments made to purchase the Australian operations. Source: Company data, Macquarie Research, August 2007

In FY3/07A, the company derived 83% of its consolidated income from the conversion of coking coal into LAM coke. We believe that going forward, the proportion of income from the Australian mining assets will rise to reach 64% of the consolidated top line in FY3/12E. This is because of the commencement of higher coking coal production in NRE No.1 and Avondale due to longwall mining.

120% 100% 17% 32% 80% 40% 61% 64% 60% 83% 40% 68% 60% 20% 39% 36% 0% 2008 2009 2010 2011 2012 ■ Indian Operations
■ Australian Mining operations

Fig 14 GNC: Mining to become a dominant contributor to top line

Source: Company data, Macquarie Research, August 2007

This change in business should also have a major impact on the composition of earnings. We forecast 88% and 95% of net profit to come from the mining operations in FY3/11E and FY3/12E respectively.

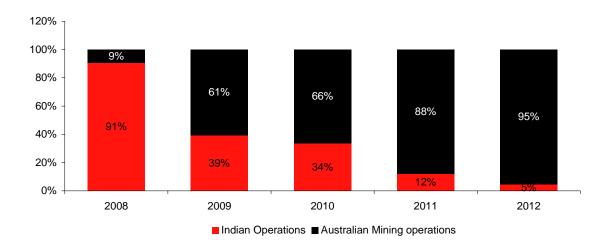


Fig 15 Company to derive the bulk of earnings from mining in future

Source: Company data, Macquarie Research, August 2007

Valuations – huge upside

Our sum-of-the-parts valuation based on DCF methodology recommends a fair price of Rs113/share. Major contributors to the total value are the hard coking coal mines in Australia.

Fig 16 Components of value

	NPV (Rs/share)	% of total value
Gujarat NRE Coke - standalone	28	24.7%
60% stake in Bharat NRE Coke	3	2.8%
93.5% stake in India NRE Minerals	56	49.8%
80.3% stake in Gujarat NRE Resources NL	22	19.9%
19.9% stake in Rey Resources	0*	0.1%
12% stake in Pluton Resources	1*	0.9%
10% stake in Pike River Coal	2*	1.7%
Total	113	
* Based on quoted market value Source: Macquarie Research, August 2007		

Methodology

There are three elements in our sum-of-the-parts valuation:

- Sale of hard coking coal from the mines is the major value generator for the company but a material amount of cash from these mines should start flowing from 2011. We did a DCF analysis of these mines based on the estimated production schedule and the hard coking coal prices forecasted by our global commodities team. We found these mines worth Rs78/share.
- We also carried out a DCF analysis of the Indian hard coking coal to LAM coke conversion operations. This yielded a value of Rs31/share.
- To the above two valuations, we added GNC's small investment stakes in some Australian-listed companies. The quoted market capitalisation of these companies was used for determining their value. The company derives Rs3/share of value from these small investments Rey Resources (REY AU, Not rated), Pluton Resources (PLV AU, Note rated) and Pike River Coal (PRC NZ, Not rated).

Key assumptions

For the purposes of the DCF analysis, we have used a weighted average cost of capital (WACC) of 13.4% based on following assumptions:

Fig 17 Cost of capital assumptions

WACC calculation		Rationale behind assumptions
WACC	13.4%	
Risk-free rate	8.0%	10-year government bond yield
Beta (Raw)	1.02	3 year weekly returns regressed against the BSE Sensex
Risk Premium	7.0%	High country risk
Marginal tax rate	34.0%	,
Cost of equity	15.3%	High cost of equity
Gross cost of debt	12.0%	
Net cost of debt (post tax)	7.9%	
Target debt/EV ratio	25.0%	Long-term debt equity ratio
Source: Macquarie Research, August 2007		

15 August 2007

For the Indian operations, we used the following price and volume assumptions:

Fig 18 Coal and coke price realisation

US\$/tonne	2008	2009	2010	2011	2012
Hard coking coal realisation	98	125	105	95	85
LAM coke realisation	275	250	220	200	175
Source: Macquarie Research, Augus	t 2007				

Fig 19 Coal and coke capacity and production

US\$/tonne	2008	2009	2010	2011	2012
LAM coke capacity (mtpa)	1,006,000	1,006,000	1,256,000	1,256,000	1,256,000
LAM coke production (mtpa)	393,322	705,900	1,004,800	1,004,800	1,004,800
Note: The above figures also include Source: Macquarie Research, Augustie		he JV with Kalyar	ni Steels (Bharat I	NRE Coke).	

For production and price assumptions related to Australian operations, refer to Figures 7 and 12.

Until now, the company has spent US\$75m on the purchase of assets in Australia. It will invest a further US\$225m to develop these mines.

The company has Rs5,079m of convertible debt. In all our calculations, we have used fully diluted number of shares to arrive at the resulting value.

Risks to recommendations

- Slowdown in China's economy. The major driving force behind the historically high commodity prices is the large demand from China. The Chinese economy continued expanding at double-digit growth (11.1%) in 1Q CY07. However, the performance of the economy is difficult to predict and its economic activities can put to risk both our hard coking coal and LAM coke price forecasts.
- **Delay in the development of mines.** Any delay in developing the mines can cost the company through non-realisation of the high prices forecasted in the next few years. In addition, the capital cost of developing the mines will go up as a result of delay, negatively impacting profitability.
- Currency risk. The mining cost will be incurred in Australian dollars, the sale contracts will be
 denominated in US dollars and the final earnings will accrue to the investor on conversion of
 profits to Indian rupee. Movement in the foreign exchange rates for these three currencies will
 impact our forecasts.

Appendix 1: Coking coal scenario

Hard coking coal derives its demand from the demand for LAM coke by the steel industry. Steel production through blast furnace requires 500kg of LAM coke per tonne of steel. Production of 500kg of LAM coke needs 700kg of hard coking coal as raw material.

The surge in steel production in recent years has led to rise in the demand for coking coal. The global sea-borne trade in hard coking coal is dominated by Australia. The country exports around 130mtpa of coal, or about 60% of the total global trade volume. Queensland and New South Wales are the major coal-producing regions in Australia.

We expect the demand-supply scenario for the coking coal industry will remain tight in the medium term for the following reasons:

- Supply disruptions and delays in Australia huge problems in the Australian ports exporting thermal and coking coal and the rail infrastructure supplying these ports, which are exacerbated by bad weather.
- Delays in expansion to capacity in Canada (coking), South Africa (thermal) and Indonesia (thermal problems in recent months and a delay in coking coal expansions).
- A demand boom in India (coking and thermal) and China (thermal in particular), offsetting some weakness from Europe.

Coking coal prices have been high for the past few years. Macquarie expects the tightness to continue for a few more years as

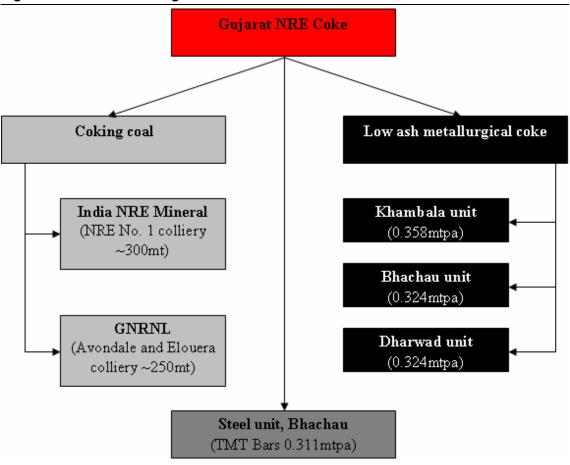
- The rising cost structure of the industry, particularly at the high-cost end of the industry (Russian thermal and North American coking) should support prices and raise the floor price levels.
- Industry structure and discipline are improved the consolidation in coking coal and thermal coal supply means that producers are now more ready to cut production to defend prices than they were in the past.
- Higher energy prices generally will support coal higher oil prices are now likely to be maintained
 into the future, and coal will increasingly be priced as an oil "substitute", especially if coal-to-liquid
 technologies take off.

Fig 20 Macquarie coal forecasts

US\$/t	2007	2008F	2009F	2010F	2011F	Long-term
Hard coking coal	98.0	125.0	105.0	95.0	85.0	80.0
Semi-soft coking coal	63.5	70.0	70.0	64.0	62.0	50.0
Thermal coal	55.5	63.0	63.0	57.5	55.0	45.0
Low-vol PCI	66.3	82.5	80.0	73.0	70.0	60.0
Source: Macquarie Research,	August 2007					

Appendix 2: Gujarat NRE Coke holdings

Fig 21 GNC: Asset holdings



Source: Company data, Macquarie Research, August 2007

Appendix 3: Details of the NRE No. 1 mine

Ownership: 93.5% owned by Gujarat NRE Coke.

Location: NRE No.1 (formerly known as South Bulli Colliery) is located in the Sydney-Bowen basin, which extends from the Illawarra region of New South Wales to Central Queensland. It is located 10km north of Wollongong, extending westward from Russell Vale over a distance of 19km. The Colliery holding covers an area of slightly over 63 sq km.

Leases: Consolidated coal lease 745 and mining purpose lease 271 spread over 6,421 hectares.

Seams: Bulli, Balgownie and Wongawilli seams from top to bottom in order of depth.

Fig 22 Seam depth and thickness

	Depth	Thickness
Bulli Seam	Variable as function of topography, average is 430.0m	2.0-2.7m
Balgownie Seam	7.0 to 13.0m below Bulli Seam	1.0-1.5m
Wongawilli Seam	30.0 to 46.0m below Bulli Seam	1.6-2.6m
Source: Company data	a, Macquarie Research, August 2007	

Resources details

Fig 23 Resources details

mt	Measured	Indicated	Inferred
Bulli Seam	1.50	29.18	39.47
Balgownie Seam	-	32.40	46.30
Wongawilli Seam	-	73.50	101.11
Total	1.50	135.08	186.88
Source: Company data, Macquarie Research, August 2007	7		

Coal quality -

Fig 24 Bulli seam - physical criteria

Seam dip	Maximum	3.5 degrees	
Seam ash content	Average	16.15%	Range: 11.1 – 22.7
Seam volatiles (daf)	Average	23.7%	Range: 21.9 – 24.9
Total vitrinite content (mmf)	Average	34.8%	Range: 26 – 41
Rank (Romax)	Average	1.22	Range: 1.17 – 1.30
Sulphur (%)	Average	0.36	Range: 0.27 - 0.54
Phosphorus	Average	0.024	Range: 0.006 - 0.05
Source: Company data, Macqua	rie Research, August 2007		

Fig 25 Balgownie seam – physical criteria

Seam dip	as for Bulli seam
Seam ash content	12–25%
VM. (dmmf)	Usual range 22.5 - 26.5
Total vitrinite content (m mf)	45 - 60% in the east, 50 - 70% in the west
Rank (Romax)	1.21 – 1.28
Max. dilatation %	-10 to +60
Max fluidity (ddm)	400 to 5000 for a 10.6% ash product
Sulphur (%)	0.35 – 0.55
Source: Company data, Macquarie Research, August 2007	

Fig 26 Wongawilli seam – physical criteria

		East	Cataract	West
Seam dip	Maximum	2.5 degrees	3.0 degrees	0.5 degree
Seam ash content	Average	30.5	25.5	29.0
	Range	24.0 - 36.5	21.5 - 26.5	25.0 - 35.0
Seam volatiles (daf)	Average	23.6	23.5	24.0
	Range	23.1 - 24.0	22.4 - 24.9	22.5 - 26.0
Total vitrinite content (m mf)	Average	77	81	84
	Range	68 – 86	75 – 84	78 – 88
Rank (Romax)	Range	1.28 - 1.36	1.39 - 1.42	1.30 - 1.48
Max. dilatation (%)	15 – 140			
Max. fluidity (ddm)	70 – 2100			
Sulphur (%)	0.45 - 0.57			
Phosphorus	0.002 - 0.011			
Source: Company data, Macquarie	Research, August 2007			

Drilling status: Currently producing coal using board and pillar methods and plans to start using longwall method by FY3/11.

Infrastructure: The coal is transported to Port Kembla by trucks. Port Kembla exports around 10–11mt of coal and coke every year and has a capacity to handle 16mtpa. The port authority is planning further expansion of the capacity by 16mt.

Appendix 4: Details of the Elouera and Avondale mines

Elouera coal mine

Ownership: 80.3% owned by Gujarat NRE Coke.

Location: The Elouera Colliery is located approximately 100km south of Sydney and represents the amalgamation of various older collieries (Wongawilli and Nebo).

Seams: Nebo and Wongawilli seams.

Drilling status: Currently producing coal using board and pillar methods and plans to start using longwall method by FY3/11.

Infrastructure: The coal is transported to Port Kembla by trucks. Port Kembla exports around 10-11mt of coal and coke every year and has a capacity to handle 16mtpa. The port authority is planning further expansion of the capacity by 16mt.

Avondale mine

Ownership: 80.3% owned by Gujarat NRE Coke.

Location: The Avondale Colliery is located approximately 100km south of Sydney and about 20km south-west of Wollongong.

Seams: Wongawilli and Tongarra seams from top to bottom in order of depth.

Resources details

Fig 27 Resources details

mt	Measured	Indicated	Inferred
Tongarra Seam	-	50.4	62.2
Wongawilli Seam	1.0	54.3	31.0
Total	1.0	104.7	93.2
Source: Company data, Macquarie Research, August 2007	•		

Coal quality

Fig 28 Coal specifications

	Wongawilli seam coal	Tongarra seam coal		
Ash % (a.d.)	33 to 34	18 to 26		
Volatile matter % (a.d.)	Not shown	21.5 to 22.0		
Specific energy (Mj/kg)	Not shown	26 to 29		
Sulphur, total (%)	Not shown	0.45 - 0.5		
Seam thickness (metres)	2.9	1.9 to 2.0		
Depth of cover (metres)	200	230		
Source: Company, Macquarie Research	ch, August 2007			

Drilling status: Drilling using longwall method to start by FY3/09.

Infrastructure: The coal will be transported through Port Kembla.

Quarterly Results		1Q/08A	2Q/08E	3Q/08E	4Q/08E	Profit & Loss		2007A	2008E	2009E	2010
Revenue	m	2,894	2,894	2,894	2,894	Revenue	m	5,145	11,575	17,471	17,91
Gross Profit	m	0	0	0	0	Gross Profit	m	0	0	0	(
Cost of Goods Sold	m	1,965	1,965	1,965	1,965	Cost of Goods Sold	m	4,649	7,861	12,109	11,84
BITDA	m	929	929	929	929	EBITDA	m	497	3,715	5,362	6,06
Depreciation	m	89	89	89	89	Depreciation	m	252	355	404	44
Amortisation of Goodwill	m	0	0	0	0	Amortisation of Goodwill	m	0	0	0	
Other Amortisation	m	0	0	0	0	Other Amortisation	m	0	0	0	F 60
EBIT Net Interest Income	m	840	840 -173	840	840 -173	EBIT	m	245 -273	3,360 -694	4,958	5,62
associates	m m	-173 0	-1/3 0	-173 0	-1/3	Net Interest Income Associates	m	-273 0	- 094 0	-1,280 0	-1,779
Exceptionals	m	0	0	0	0	Exceptionals	m m	0	0	0	
Forex Gains / Losses	m	0	0	0	0	Forex Gains / Losses	m	0	0	0	
Other Pre-Tax Income	m	56	56	56	56	Other Pre-Tax Income	m	633	222	222	22
Pre-Tax Profit	m	722	722	722	722	Pre-Tax Profit	m	605	2,888	3,899	4,06
Tax Expense	m	-159	-159	-159	-159	Tax Expense	m	-129	-637	-1,022	-1,08
Net Profit	m	563	563	563	563	Net Profit	m	476	2,252	2,876	2,97
Minority Interests	m	-72	-72	-72	-72	Minority Interests	m	16	-289	-390	-40
Reported Earnings Adjusted Earnings	m m	563 491	563 491	563 491	563 491	Reported Earnings Adjusted Earnings	m m	476 492	2,252 1,962	2,876 2,487	2,97 2,56
		4 74	4 74	4 74	4.74			4.45		•	
EPS (rep)		1.71 1.49	1.71 1.49	1.71 1.49	1.71 1.49	EPS (rep)		1.45 1.50	6.85 5.97	8.75 7.57	9.0 7.8
EPS (adj) EPS Growth YoY (adj)	%	299.2	299.2	299.2	299.2	EPS (adj) EPS Growth (adj)	%	-59.8	5.97 299.2	7.57 26.7	7.8
.i o olowili rot (auj)	/0	233.2	∠33.∠	∠33.∠	233.2	PE (rep)	76 X	-59.6 39.9	299.2 8.4	6.6	3. 6.
						PE (rep) PE (adj)	X X	38.6	9.7	7.6	7.
BITDA Margin	%	32.1	32.1	32.1	32.1	Total DPS		0.00	0.00	0.00	0.0
BIT Margin	%	29.0	29.0	29.0	29.0	Total Div Yield	%	0.0	0.0	0.0	0.
arnings Split	%	25.0	25.0	25.0	25.0	Weighted Average Shares	m	329	329	329	32
Revenue Growth	%	125.0	125.0	125.0	125.0	Period End Shares	m	329	329	329	32
EBIT Growth	%	1,273.0	1,273.0	1,273.0	1,273.0						
Profit and Loss Ratios		2007A	2008E	2009E	2010E	Cashflow Analysis		2007A	2008E	2009E	2010
Revenue Growth	%	-7.5	125.0	50.9	2.5	EBITDA	m	945	3,715	5,362	6,06
BITDA Growth	%	-54.4	647.9	44.3	13.1	Tax Paid	m	-129	-637	-1,022	-1,08
BIT Growth	%	-74.7	1,273.0	47.6	13.4	Chgs in Working Cap	m	-1,078	407	-1,366	17
Gross Profit Margin	%	0.0	0.0	0.0	0.0	Net Interest Paid	m	-273	-694	-1,280	-1,77
EBITDA Margin EBIT Margin	% %	9.7 4.8	32.1 29.0	30.7 28.4	33.9 31.4	Other Operating Cashflow	m	-252 -787	-355 2,436	-404 1,289	-44 2,92
Net Profit Margin	%	9.3	19.5	16.5	16.6	Acquisitions	m m	-623	2,430	0	2,92
Payout Ratio	%	0.0	0.0	0.0	0.0	Capex	m	-1,031	-4,546	-2,435	-2,02
EV/EBITDA	, х	46.9	6.3	4.3	3.8	Asset Sales	m	0	0	2,433	2,02
EV/EBIT	x	95.2	6.9	4.7	4.1	Other	m	185	222	222	22
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	^	00.2	0.0			Investing Cashflow	m	-1,468	-4,324	-2,214	-1,80
Balance Sheet Ratios						Dividend (Ordinary)	m	-454	-412	-234	-20
ROE	%	9.3	31.8	30.8	24.7	Equity Raised	m	1,446	0	0	
ROA	%	1.5	15.3	16.6	15.6	Debt Movements	m	2,879	2,577	2,412	2,06
ROIC	%	2.4	31.0	30.7	26.8	Other	m	-1,073	290	390	40
let Debt/Equity	%	47.0	56.7	49.9	29.2	Financing Cashflow	m	2,799	2,455	2,568	2,27
nterest Cover	х	0.9	4.8	3.9	3.2	· ····································		_,	_,	_,	_,
Price/Book Book Value per Share	x	3.5	2.7	2.1	1.6	Net Chg in Cash/Debt	m	815	-789	1,611	3,38
ook value per Share		16.4	21.2	28.0	35.2	Balance Sheet		2007A	2008E	2009E	2010
						Cash	m	754	1,726	3,337	6,72
						Receivables	m	1,529	2,689	3,474	3,21
						Inventories	m	2,123	3,015	5,136	4,88
						Investments	m	0 5 900	0 0 0 4 6	0	
						Fixed Assets	m	5,890	9,846	11,919	13,54
						Intangibles	m	197 7.561	197	197	19
						Other Assets	m	7,561	8,379	9,840	9,40
						Total Assets	m	18,054	25,852	33,903	37,9
						Payables Short Torm Dobt	m	1,754	5,010	7,355	6,77
						Short Term Debt	m	7 2 4 4 9	6.022	0	10.5
						Long Term Debt Provisions	m m	3,448	6,032	8,444	10,5
							m m	1,362 5,733	1,382	2,037 5,835	1,84
						Other Liabilities	m	5,733	5,838	5,835	5,8
						Total Liabilities	m	12,304 5.405	18,263	23,671	24,9
						Shareholders' Funds	m	5,405	6,955 635	9,207 1,024	11,5
						Minority Interests	m	345	h'35	1 1127	1,4
						*					
						Other	m	0	0	0	40.0
						*					12,9 37,9

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

Macquarie Asia

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

(>2.5% below for listed property trusts)

Macquarie First South Securities (South Africa)

Outperform – expected return >+5% Neutral – expected return from -5% to +5% Underperform – expected return <-5%

Recommendations - 12 months

Note: Quant recommendations may differ from Fundamental Analyst recommendations

Recommendation proportions

	AU/NZ	Asia	RSA
Outperform	46.81%	61.36%	45.30%
Neutral	39.01%	18.67%	35.80%
Underperform	14.18%	19.97%	18.90%
For quarter ending 30 June 2007			

This is calculated from the volatility of historic price movements.

Volatility index definition*

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).

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, including investment banking revenues, of Macquarie Bank Ltd ABN 46 008 583 542 (AFSL No.237502)("Macquarie") 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 Europe Ltd: Macquarie Securities (USA) Inc; Macquarie Securities Ltd: Macquarie Securities (Singapore) Pte Ltd; and Macquarie Securities (New Zealand) Ltd 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. Macquarie provides a guarantee to the Monetary Authority of Singapore in respect of Macquarie Securities (Singapore) Pte Ltd for up to SGD25m under the Securities and Futures Act (Chapter 289). Macquarie does not otherwise guarantee or provide assurance in respect of the obligations of any of the above mentioned entities. 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: Securities research is issued and distributed by Macquarie Securities (Australia) Ltd (AFSL No. 238947) in Australia, a participating organisation of the Australian Stock Exchange; Macquarie Securities (New Zealand) Ltd in New Zealand, a licensed sharebroker and New Zealand Exchange Firm; Macquarie Europe Ltd in the United Kingdom, which is authorised and regulated by the Financial Services Authority (No. 193905); Macquarie Securities Ltd in Hong Kong, which is licensed and regulated by the Securities and Futures Commission; Macquarie Securities (Japan) Limited in Japan, a member of the Tokyo Stock Exchange, Inc. and Osaka Securities Exchange Co., Ltd and in Singapore, Macquarie 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 Securities (Singapore) Pte Ltd is exempt from complying with sections 25, 27 and 36 of the Financial Advisers Act. Economic research is issued and distributed in Australia by Macquarie; in New Zealand by Macquarie Securities (New Zealand) Ltd and in the United Kingdom by Macquarie Europe Ltd. Clients should contact analysts at, and execute transactions through, a Macquarie group entity in their home jurisdiction unless governing law permits otherwise. This research may be distributed in the United States only to major institutional investors and may not be circulated to any other person in the

Auckland	Bangkok	Hong Kong	Jakarta	Johannesburg	Kuala Lumpur
Tel: (649) 377 6433	Tel: (662) 694 7999	Tel: (852) 2823 3588	Tel: (62 21) 515 1818	Tel: (27 11) 343 2258	Tel: (60 3) 2059 8833
London	Manila	Melbourne	Mumbai	New York	Perth
Tel: (44 20) 7065 2000	Tel: (63 2) 857 0888	Tel: (613) 9635 8139	Tel: (91 22) 6653 3000	Tel: (1 212) 231 2500	Tel: (618) 9224 0888
Seoul	Shanghai	Singapore	Sydney	Taipei	Tokyo
Tel: (82 2) 3705 8500	Tel: (86 21) 6841 3355	Tel: (65) 6231 1111	Tel: (612) 8232 9555	Tel: (886 2) 2734 7500	Tel: (81 3) 3512 7900

United States. Macquarie Securities (USA) Inc., which is a registered broker-dealer and member of the NASD, 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 Securities (USA) Inc. All transactions by US investors involving securities discussed in this report must be effected through Macquarie Securities (USA) Inc. The information contained in this email is confidential. If you are not the intended recipient, you must not disclose or use the information in this email 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. Disclosures with respect to the issuers, if any, mentioned in

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

this research are available at www.macquarie.com/research/disclosures. © Macquarie Group

Macquarie Research **Equities**





Research

Automobiles/Auto Parts			
Kurt Sanger (Japan, Asia)	(813) 3512 7859		
Deepak Jain (India)	(9122) 6653 3157		
Liny Halim (Indonesia)	(6221) 515 7343		
Toshisuke Hayami (Japan)	(813) 3512 7873		
Eunsook Kwak (Korea)	(822) 3705 8644		
Banks and Non-Bank Financials			
Ismael Pili (Asia)	(65) 6231 2840		
Nick Lord (Asia)	(852) 2823 4774		
Chris Esson (Hong Kong)	(852) 2823 3567		
Seshadri Sen (India)	(9122) 6653 3053		
Liny Halim (Indonesia)	(6221) 515 7343		
Kentaro Kogi (Japan)	(813) 3512 7865		
Mark Barclay (Korea)	(822) 3705 8658		
Young Chung Mok (Korea)	(822) 3705 8668		

Chris Hunt (Taiwan)

Chin Seng Tay (Malaysia, S'pore)

Scott Weaver (China, Taiwan)	(8862) 2734 7512
Jal Irani (India)	(9122) 6653 3040
Christina Lee (Korea)	(822) 3705 8670
Kitti Nathisuwan (Thailand)	(662) 694 7724

(65) 6231 2837

(662) 694 7741

(8862) 2734 7526

(8862) 2734 7514

Conglomerates

Gary Pinge (Asia)	(852) 2823 3557
Leah Jiang (China)	(852) 2823 3586
Ashwin Sanketh (Singapore)	(65) 6231 2830

Consumer

Nicolas Wang (China)	(852) 2823 4625
Unmesh Sharma (India)	(9122) 6653 3042
Sarina Lesmina (Indonesia)	(6221) 515 7339
Duane Sandberg (Japan)	(813) 3512 7867
Woochang Chung (Korea)	(822) 3705 8667
Edward Ong (Malaysia)	(603) 2059 8982
Nadine Javellana (Philippines)	(632) 857 0890

Custom Products

Patrick Hansen (Japan) (813) 3512 7876

Emerging Leaders

 Robert Burghart (Japan)
 (813) 3512 7853

 Woochang Chung (Korea)
 (822) 3705 8667

 Nadine Javellana (Philippines)
 (632) 857 0890

 Scott Weaver (Taiwan)
 (8862) 2734 7512

Insurance

Chris Esson (China, Taiwan) (852) 2823 3567

Media

Prem Jearajasingam (Malaysia) (603) 2059 8989

Metals and Mining

Simon Francis (Asia)	(852) 2823 3590
Laban Yu (Hong Kong)	(852) 2823 3575
Rakesh Arora (India)	(9122) 6653 3054
Adam Worthington (Indonesia)	(6221) 515 7338
Polina Diyachkina (Japan)	(813) 3512 7886
Christina Lee (Korea)	(822) 3705 8670
Amornrat Cheevavichawalkul (Thai)	(662) 694 7829

Oil and Gas

David Johnson (Asia)	(852) 2823 4691
Scott Weaver (China, Taiwan)	(8862) 2734 7512
Jal Irani (India)	(9122) 6653 3040
Christina Lee (Korea)	(822) 3705 8670
Mark Barclay (Korea)	(822) 3705 8658
Edward Ong (Malaysia)	(603) 2059 8982
Kitti Nathisuwan (Thailand)	(662) 694 7724

Pharmaceuticals

Shubham Majumder (India)	(9122) 6653 3049
Naomi Kumagai (Japan)	(813) 3512 7474
Christina Lee (Korea)	(822) 3705 8670

Property

Matt Nacard (Asia)	(852) 2823 4731
Eva Lee (Hong Kong, China)	(852) 2823 3573
Corinne Jian (Hong Kong)	(8862) 2734 7529
Siddhartha Gupta (India)	(9122) 6653 3048
Chang Han Joo (Japan)	(813) 3512 7885
Tuck Yin Soong (Singapore)	(65) 6231 2838
Elaine Cheong (Singapore)	(65) 6231 2839

Technology

Warren Lau (Asia)	(852) 2823 3592
Suveer Chainani (India)	(9122) 6653 3045
Damian Thong (Japan)	(813) 3512 7877
David Gibson (Japan)	(813) 3512 7880
George Chang (Japan)	(813) 3512 7854
Yoshihiro Shimada (Japan)	(813) 3512 7862
Do Hoon Lee (Korea)	(822) 3705 8641
Michael Bang (Korea)	(822) 3705 8659
Patrick Yau (Singapore)	(65) 6231 2835
Daniel Chang (Taiwan)	(8862) 2734 7516
Dominic Grant (Taiwan)	(8862) 2734 7528
Nicholas Teo (Taiwan)	(8862) 2734 7523
Andy Kung (Taiwan)	(8862) 2734 7534

Telecoms

Tim Smart (Asia)	(852) 2823 3565
Jake Lynch (China)	(852) 2823 3583
Shubham Majumder (India)	(9122) 6653 3049
Richard Moe (Indonesia)	(662) 694 7753
Nathan Ramler (Japan)	(813) 3512 7875
Joel Kim (Korea)	(822) 3705 8677
Prem Jearajasingam (Malaysia)	(603) 2059 8989
Ramakrishna Maruvada	
(Philippines, Singapore)	(65) 6231 2842
Dominic Grant (Taiwan)	(8862) 2734 7528
Richard Moe (Thailand)	(662) 694 7753

Transport & Logistics

Paul Huxford (Asia)	(65) 6231 2841
Anderson Chow (China, Hong Kong)	(852) 2823 4773
Bin Liu (China)	(852) 2823 4761
Eunsook Kwak (Korea)	(822) 3705 8644

Utilities

Sylvia Chan (Asia)	(852) 2823 3579
Gopal Ritolia (India)	(9122) 6653 3055
Adam Worthington (Indonesia)	(6221) 515 7338
Prem Jearajasingam (Malaysia)	(603) 2059 8989
Dante Tinga (Philippines)	(632) 857 0815

Commodities

Jim Lennon	(4420) 7065 2014
Adam Rowley	(4420) 7065 2013
Max Layton	(4420) 7065 2000
Bonnie Liu	(4420) 7065 2014
Henry Liu	(4420) 7065 2014

Data Services

Liz Dinh (Asia) (852) 2823 4762

Economics

Roland Randall (Asean)	(852) 2823 3572
Bill Belchere (Asia)	(852) 2823 4636
Eli Polatinsky (Asia)	(852) 2823 4074
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

Strategy/Country

Tim Rocks (Asia)	(852) 2823 3585
Daniel McCormack (Asia)	(852) 2823 4073
Desh Peramunetilleke (Asia)	(852) 2823 3564
Jake Lynch (China)	(852) 2823 3583
Seshadri Sen (India)	(9122) 6653 3053
Peter Eadon-Clarke (Japan)	(813) 3512 7850
Eugene Ha (Korea)	(822) 3705 8643
Uday Jayaram (Malaysia)	(603) 2059 8988
Ismael Pili (Philippines)	(65) 6231 2840
Tuck Yin Soong (Singapore)	(65) 6231 2838
Chris Hunt (Taiwan)	(8862) 2734 7526
Kitti Nathisuwan (Thailand)	(662) 694 7724

Find our research at

Macquarie: www.macquarie.com.au/research
Thomson: www.thomson.com/financial
Reuters: www.rbr.reuters.com

Bloomberg: MAC GO

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
Daniel Fust (Geneva)	(41) 22 818 7710
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
Derek Wilson (London) (N Asia)	(44) 20 7065 5856
Julien Roux (London)	(44) 20 7065 5887
Lena Yong (Malaysia)	(603) 2059 8888
Ismael Pili (Philippines)	(65) 6231 2840
Greg Norton-Kidd (New York)	(1 212) 231 2527

Regional Heads of Sales cont'd

Luke Sullivan (New York)	(1 212) 231 2507
Mark Lawrence (New York)	(1 212) 231 2516
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
Dominic Henderson (Tokyo)	(813) 3512 7820
Nick Cant (Tokyo)	(813) 3512 7821
Charles Nelson (UK/Europe)	(44) 20 7065 2032
Rob Fabbro (UK/Europe)	(44) 20 7065 2031

Sales Trading

Anthony Wilson (Asia)	(852) 2823 3511
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
Kenichi Ohtaka (Tokyo)	(813) 3512 7830

Alternative Strategies

Convertibles - Roland Sharman	(852) 2823 4628
Depository Receipts - Robert Ansell	(852) 2823 4688
Derivatives - Vipul Shah	(852) 2823 3523
Futures - Tim Smith	(852) 2823 4637
Hedge Fund Sales - Darin Lester	(852) 2823 4736
Structured Products - Andrew Terlich	(852) 2249 3225