Macquarie Research Equities



ASIA

25 August 2008

Country allocations

Country	Recommended weight	Benchmark weight	Relative Position
China	26.2	23.2	3.0
Singapore	8.7	7.2	1.5
Indonesia	4.2	2.7	1.5
Thailand	3.2	2.2	1.0
Philippines	1.1	0.6	0.5
Malaysia	3.7	3.7	0.0
Hong Kong	13.0	13.0	0.0
Taiwan	15.1	17.1	-2.0
Korea	18.4	20.9	-2.5
India	6.0	9.0	-3.0
Japan			1.0

Source: Macquarie Research, August 2008

Sector allocations

Sector	Recommended weight	Benchmark weight	Relative Position
Banks	20.5	16.5	4.0
Real estate	14.5	13.0	1.5
Telcos	10.9	9.4	1.5
Consumer	10.2	10.2	0.0
Tech	16.9	16.9	0.0
Industrials	11.6	12.6	-1.0
Energy	7.9	9.9	-2.0
Utilities	1.8	3.8	-2.0
Materials	5.7	7.7	-2.0

Source: Macquarie Research, August 2008

Asia strategy

Stocks going cheap

Event

• We scan Asia for cheap stocks. As a by-product of this process, we identify the valuation metric that is the best signal of value for each sector.

Outlook

- Value is now starting to emerge in Asia, in our view. Asia's structural outlook remains healthy and the cyclical downturn is providing investors with an opportunity to pick up some very good long-term buys.
- To be sure, value is tricky to find in the current environment. Stocks that, prima facie, look like good value can quickly become value traps. Using forward PER to identify value can be particularly dangerous given the very fluid nature of analysts' earnings forecasts in the current economic environment.
- To select value stocks, we use a two-stage process:
 - ⇒ We first identify, for each sector, the valuation metric that has proven to be the best signal of value in the past.
 - \Rightarrow We then screen for stocks that are cheap on that valuation metric.
- Those concerned about a dizzying theoretical discussion on the intellectually most appropriate valuation metric for each sector can rest assured. In this note, we have put theoretic intricacies to one side and taken a very pragmatic approach to valuation metric selection: We have chosen the one that has, in the past, been the best predictor of future performance for each sector. That is, when the valuation metric has suggested the sector is cheap, a period of strong performance has followed, and when the valuation metric has suggested the sector is expensive, a period of weak performance has followed.
- Once having selected our metric, we then screen for stocks using two approaches. In the first, we have screened for stocks that are outright cheapest on that valuation metric. In the second, we have screened for stocks that are cheapest relative to their own history. That is, we have selected the stocks that are currently trading the furthest below their long-run average (using standard deviation to normalise the results) on the valuation metric in question.
- A full list of stocks for each sector is provided inside. Below is an all-star list.

Cheap stocks in Asia

BBG Code	Company Name	Mkt Cap (US\$m)	Rec	Price Target (Icy)		Upside/ Downside (%)	PCF	PER (07A)	PER (09E)	P/BV	Div Yield (09E)
TATA IN	Tata Steel	10009	Out	1416.0	594.5	138.2	2.9	3.9	3.0	0.7	2.7
CAPL SP	Capitaland	8945	Out	7.04	4.45	58.2	5.7	5.8	17.7	1.3	3.4
053000 KS	Woori Finance	10634	Out	24000	13850	73.3	N/A	6.6	5.0	0.7	5.6
PTT TB	PTT	21934	Out	350	264	32.6	5.4	7.0	7.3	1.5	4.4
017670 KS	SK Telecom	14928	Out	242000	193000	25.4	4.0	8.6	9.0	1.2	4.9
	Zhejiang										
576 HK	Expressway	2559	Out	7.0	4.6	52.2	6.7	8.5	8.1	1.2	7.9
Share prid	ces are as of 22	August 2	2008								
•	Aacquarie Resea	0									

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.

Analysts

Daniel McCorma	ack, CFA
852 2823 4073	daniel.m
Tim Rocks	
852 2823 3585	

ck, CFA daniel.mccormack@macquarie.com tim.rocks@macquarie.com

Analysis

- Investors are currently confused to the point of paralysis. That is our very clear impression from our recent two week marketing trip through Asia. On the one hand, investors see value in some stocks, sectors and/or countries. But on the other, they see a macro economic environment that appears to be going from bad to something worse.
- In our view, value is now starting to emerge in Asia. Asia's structural outlook remains healthy and this cyclical downturn is providing investors with an opportunity to pick up some very good long-term buys. Identifying these stocks can, however, be difficult. Stocks that, prima facie, look like good value can very quickly become value traps. In particular, analysts' forward earnings estimates can be particularly suspect at this point in the cycle.
- To select value stocks, we use a two-stage process:
 - ⇒ We first identify, for each sector, the valuation metric that has proven to be the best signal of value in the past.
 - $\Rightarrow~$ We then screen for stocks that are cheap on that valuation metric.
- When screening for the individual stocks, we have taken two approaches. In the first, we have simply selected those stocks that are outright cheapest on our preferred valuation metric for the sector in question. In the second, we have screened for stocks that are cheapest on that valuation metric relative to their own history. In other words, we have selected the stocks that are currently trading the furthest below their long-run average (using standard deviation to normalise the results).

Consumer staples – P/CF

- P/CF is the standout valuation metric for the consumer staples sector. Buying the sector when this
 metric drops more than half a standard deviation below its long-run average gives an annualised
 return of around 16%, whether investors are investing over a 3-, 6- or 12-month horizon (see
 Figure 1 below). The metric also works well in the other direction, with the sector consistently
 delivering negative returns when P/CF is more than half a standard deviation above long-run
 average levels.
- Trailing PER is also not a bad signal of value for this sector. When it rises more than half a
 standard deviation above long-run average levels, this is generally a signal that weak or negative
 returns lie in prospect. Forward PER, on the other hand, produces very mixed results, while P/BV
 is generally useful only as a sign of extreme over-valuation when the sector is at least a full
 standard deviation above long-run average levels on this metric, that is a signal for investors to
 purposefully make their way to the exit doors.

Fig 1 Valuation metrics and performance – consumer staples

		P/BV	,			P/CI	F		F	PER (Tra	iling)		Р	ER (For	ward)	
	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4
3mths	2.0	1.5	0.5	-0.2	3.5	4.8	2.2	-5.4	1.9	3.1	0.9	-2.8	1.5	3.8	-2.1	N/A
6mths	4.9	5.0	1.8	-4.5	6.1	8.6	-2.8	-10.4	4.5	6.0	0.5	-6.1	4.6	4.2	1.3	N/A
12mths	8.3	17.6	7.5	-26.8	12.0	15.2	-8.7	-12.3	10.4	11.4	-0.9	-2.2	11.3	2.3	4.9	N/A
Source: I/B/E/S	, MSCI, Maco	quarie Re	search	, August	2008											

R1 – more than 1 standard deviation below its historical average

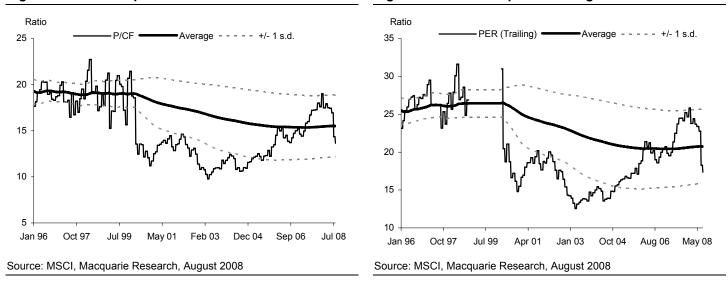
R2 – between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 – more than one standard deviation above its historical average

 On both these preferred metrics (P/CF and trailing PER), the consumer staples sector is now more than half a standard deviation below its long-run average (see Figures 2 and 3 below), which, if history is any guide, suggests that solid returns lie ahead for consumer staples stocks.

Fig 2 Consumer staples – P/CF



• Figure 4 below provides a list of stocks that are cheap on a P/CF basis. The first five are, in order, the stocks that are outright cheapest on a P/CF basis; the second five are, again in order, the stocks that are cheapest relative to their own P/CF history (ie, the largest standard deviation below their average level).

Fig 4 Cheap stocks – consumer staples

BBG Code	Company Name	Mkt Cap in US\$m	Rec	Price Target	Close Price	Upside/ Downside (%)P/CF	PER (09E) P/BV	Div Yield (09E)
Code		iii OSaiii	Rec	(lcy)	(Icy)	(//)F/CF	(09E) F/BV	(09E)
Cheapest s	tocks on a P/CF basis							
GGR SP	Golden Agri-Resources Ltd.	4559.7	NR	-	0.645	N/A 3.9	8.3 1.1	0.2
1216 TT	Uni-President Enterprises	3788.6	Under	37	31.75	16.5 6.5	17.5 1.7	1.1
682 HK	Chaoda Modern Agriculture	2430.4	Under	7.2	7.8	-7.7 8.3	5.5 1.1	1.3
CPALL TB	CP ALL PCL	1413.5	NR	-	10.7	N/A 8.9	12.5 3.7	0.7
004990 KS	Lotte Confectionery Co. Ltd.	1688.4	NR	-	1262000	N/A 10.3	14.6 1.0	0.0
Cheapest o	on a P/CF basis relative to own	history						
ASP MK	Asiatic Development Bhd	1268.2	NR	-	5.6	N/A 11.3	8.8 1.6	0.3
1216 TT	Uni-President Enterprises	3788.6	Under	37	31.75	16.5 6.5	17.5 1.7	1.1
200869 CH	Yantai Changyu Pioneer Wine	948.5	NR	-	41.49	N/A 31.5	15.5 5.5	0.7
WIL SP	Wilmar International	17323.7	Out	5.55	3.81	45.7 28.8	16.6 1.9	1.3
UNSP IN	United Spirits Ltd.	2991.2	NR	-	1296.8	N/A 30.8	19.5 4.3	0.1
	s are as of 22 August 2008. ctset, Macquarie Research, Augu	st 2008						

Consumer discretionary – valuations are not a good guide

- For the consumer discretionary sector, no valuation metric is a consistently reliable signal of value.
 P/BV is particularly poor, suggesting that better returns lie ahead when the sector is richly valued, rather than when it is conservatively valued (see Figure 5).
- The others are not outright misleading, but have little to no information content. This suggests that, for the consumer discretionary sector, all valuation metrics should be treated with caution.

Fig 5 Valuation metrics and performance – Consumer discretionary

		P/B	V			P/CF			F	PER (Tra	ailing)		Р	ER (For	ward)	
	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4
3mths	2.5	-1.0	3.3	2.4	0.9	2.2	-3.2	4.3	0.5	1.8	-10.5	6.9	2.1	4.4	4.8	7.7
6mths	2.6	-0.7	7.3	5.1	2.5	1.8	3.8	2.6	0.1	6.8	6.3	-1.7	6.1	2.0	6.9	13.5
12mths	5.6	-2.1	11.6	18.0	5.5	6.5	5.6	-1.9	2.3	14.0	11.9	-9.9	14.3	9.5	-5.0	18.1

Source: I/B/E/S, MSCI, Macquarie Research, August 2008

R1 - more than 1 standard deviation below its historical average

 $\mathsf{R2}$ – between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 – more than one standard deviation above its historical average

Fig 3 Consumer staples – trailing PER

Banks – Trailing PER

Trailing PER is clearly the best and most consistent valuation metric for the banks sector. Buying when this metric says the banks are cheap, and shorting when this metric says the banks are expensive, has been a consistently profitable investment strategy in the past (Figure 6). Interestingly, P/BV, which is a commonly used valuation metric for individual bank stocks, is a very poor predictor of future performance for the sector as a whole.

		P/B	/			P/C	F		F	PER (Tra	iling)		Р	ER (for	ward)	
	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4
3mths	4.5	1.4	-2.4	0.7	N/A	N/A	N/A	N/A	12.0	1.9	-6.3	-2.2	-0.7	4.0	-2.3	-9.0
6mths	9.0	0.6	3.3	-3.8	N/A	N/A	N/A	N/A	17.1	8.4	-4.0	-3.5	-0.7	8.1	-4.5	-4.0
12mths	17.5	-0.1	4.3	4.5	N/A	N/A	N/A	N/A	34.3	16.5	-4.6	-3.8	4.9	9.4	-16.7	13.4
Source: I/B/E/	/S, MSCI, Mac	quarie R	esearch	, Augus	st 2008											

Fig 6 Valuation metrics and performance – banks

R1 - more than 1 standard deviation below its historical average

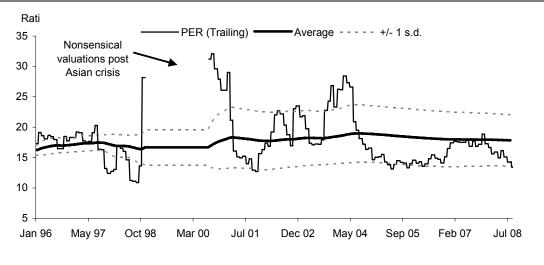
R2 – between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 – more than one standard deviation above its historical average

 The sector is now very cheap on a trailing PER basis – at 13.4x, it is more than a full standard deviation below its long-run average of 17.8x (Figure 7). In fact, the only time the sector has gone below the current level was during the Asian financial crisis in 1997–98. A seriously bad domestic macroeconomic outcome now appears to be factored into this sector – something that, in our view, is unlikely.

Fig 7 Banks – trailing PER



Source: MSCI, Macquarie Research, August 2008

• Figure 8 below contains the list of banks that are the cheapest in an absolute sense on a trailing PER basis and those that are cheapest relative to their own history. Unsurprisingly, the Korean banks feature heavily, while the Malaysian banks are now also very cheap relative to their history.

Fig 8 Cheap stocks – banks

BBG Code	Company Name	Mkt Cap in US\$m	Rec	Price Target (Icy)	Close Price (Icy)	Upside/ Downside (%)	PER (07A)	P/BV	Div Yield (09E)
Cheapest s	stocks on a trailing PER basis								
005270 KS	Daegu Bank	1510.4	Outperform	13800	12000	15.0	6.3	0.9	5.0
005280 KS	Pusan Bank	1655.8	Neutral	12500	11850	5.5	6.5	0.9	4.8
024110 KS	Industrial Bank of Korea	5924.3	Outperform	20500	15350	33.6	6.6	0.8	3.6
053000 KS	Woori Finance Holdings	10634.3	Outperform	24000	13850	73.3	6.9	0.7	5.6
UBL PA	United Bank Ltd.	1006.4	NR	-	75.75	N/A	7.1	1.2	0.3
Cheapest s	stocks on a trailing PER basis	relative to	their own hi	story					
UBL PA	United Bank Ltd.	1006.4	NR	-	75.75	N/A!	7.1	1.2	0.3
005280 KS	Pusan Bank	1655.8	Neutral	12500	11850	5.5	6.5	0.9	4.8
BCHB MK	Bumiputra-Commerce Holdings Bhd	8021.3	Neutral	8.6	7.95	8.2	10.8	1.4	5.0
HLBK MK	Hong Leong Bank	2672.1	Neutral	6	5.65	6.2	11.0	1.5	4.2
PBKF MK	Public Bank	10296.8	Outperform	13.15	9.85	33.5	12.4	3.2	7.6
	s are as of 22 August 2008. ctset, Macquarie Research, Aug	ust 2008							

Energy – valuations very good for picking overvaluation

P/CF, trailing PER and forward PER all work reasonably well for the energy sector. They are certainly good at picking overvaluation – when these metrics are elevated (ie, at least half a standard deviation above long-run average levels) subsequent returns are very poor (Figure 9). But they are less consistent at picking undervaluation, which undermines overall confidence in their numbers somewhat.

Fig 9 Valuation metrics and performance – energy

		P/B	v			P/C	F		F	PER (Tra	ailing)		P	ER (Foi	rward)	
	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4
3mths	-0.2	2.0	10.7	0.0	0.1	5.9	-9.2	-14.7	0.1	10.1	-18.0	-12.9	0.3	7.5	-12.4	-25.1
6mths	-0.8	5.8	5.2	-8.4	0.2	11.9	-18.6	-13.9	-3.7	22.7	-9.3	-16.0	0.1	15.4	-16.8	-23.7
12mths	-5.4	20.8	-0.7	1.8	-3.5	31.7	N/A	N/A	-4.9	49.2	4.3	-10.0	-0.3	39.5	N/A	N/A
Source: I/B/E/	S, MSCI, Mac	quarie R	Research	, August	2008											

R1 – more than 1 standard deviation below its historical average

R2 – between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 - more than one standard deviation above its historical average

 Overall, the energy sector is not cheap at current levels with P/CF and trailing PER either at or above their long-run average. Still, there is value to be found in the sector in certain stocks and Figure 10 below shows the cheapest energy stocks in the region on a trailing PER basis.

Fig 10 Cheap stocks – energy

BBG Code	Company Name	Mkt Cap in US\$m	Rec	Price Target (Icy)		Upside/ Downside (%)	PER (07A)	P/BV	Div Yield (09E)
Cheapes	t stocks on a trailing PER basis								
BPCL IN	Bharat Petroleum Corporation Ltd	2435.1	Outperform	470	292.35	60.8	4.7	0.7	6.0
TOP TB	Thai Oil	3006.2	Outperform	66	50	32.0	5.8	1.2	7.3
PTT TB	PTT	21934.3	Outperform	350	264	32.6	7.0	1.5	4.4
IRPC TB	IRPC PCL	2350.5	Neutral	4.3	4.06	5.9	7.0	0.8	5.7
OGDC PA	Oil & Gas Development Corp.	6111.1	NR	-	108.2	N/A	10.5	3.5	0.8
Cheapes	t stocks on a trailing PER basis r	elative to t	heir own histo	ry					
TOP TB	Thai Oil	3006.2	Outperform	66	50	32.0	5.8	1.2	7.3
6505 TT	Formosa Petrochemical	23294.9	Underperform	61	78.8	-22.6	10.6	3.1	6.4
2883 HK	China Oilfield Services Ltd	4728.6	Outperform	17.7	9.24	91.6	20.5	1.6	1.8
1898 HK	China Coal Energy	20211.0	Outperform	17	11.9	42.9	24.1	2.0	2.1
276 HK	Mongolia Energy Corp. Ltd.	4261.2	NR	-	5.5	N/A	1122.1		
	ces are as of 22 August 2008. Factset, Macquarie Research, Augus	st 2008							

Industrials - trailing PER

- For the industrials sector, trailing PER has been easily the most consistent valuation signal when this metric is elevated relative to history, negative returns lie in prospect, and when depressed relative to history future returns are, on average, healthy (Figure 11). Most of the other metrics are inconsistent and therefore quite poor signals of value for this sector, although P/CF has been a useful guide to overvaluation.
- In particular, P/BV has been an incredibly misleading signal of value for the industrials sector buying when this metric has suggested the sector is expensive has produced quite spectacular returns, while buying when this metric says the sector is cheap has tended to produce very poor returns. The simple reason for this is, of course, that ROEs for this sector have been trending up in recent years, rather than mean reverting.

Fig 11 Valuation metrics and performance – industrials

		P/B	v			P/CI	F		I	PER (Tra	ailing)		Р	ER (For	ward)	
	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4
3mths	0.0	-0.8	5.4	5.3	0.0	3.0	-0.1	-5.7	2.4	3.1	-2.2	-6.5	-0.9	0.8	5.0	-0.7
6mths	1.3	-4.2	10.3	13.5	-3.9	4.2	-2.5	-12.4	5.5	7.9	-7.1	-6.2	-2.2	4.8	7.7	-6.2
12mths	8.5	-9.3	27.7	39.3	7.2	6.5	-0.3	-13.1	8.6	26.4	-1.8	1.3	6.7	13.8	0.1	-13.5
Source: I/B/E/	S MSCI Mad	ouarie F	Research	Διιαμεί	2008											

R1 - more than 1 standard deviation below its historical average

R2 – between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 - more than one standard deviation above its historical average

 Overall, the industrials sector is currently good value – the latest trailing PER of 12.5x is more than a full standard deviation below its long-run average level (Figure 12), while the sector is also very cheap on a P/CF basis (Figure 13).

Fig 13

Industrials – P/CF

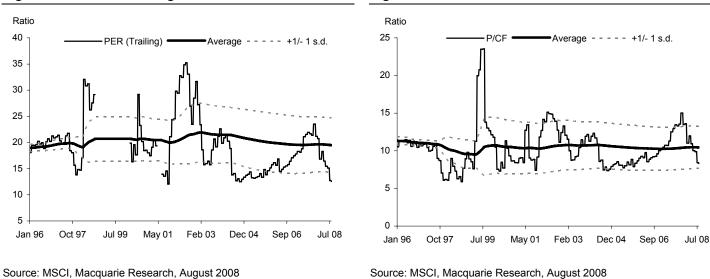


Fig 12 Industrials – trailing PER

 Of course, with earnings currently being downgraded aggressively, it is hard to see a positive catalyst for the sector in the near term. But there are some very cheap stocks in this sector that will, in time, be re-rated back to more normal levels. Figure 14 below contains a list of the cheapest stocks in the sector on a trailing PER basis.

Fig 14 Cheap stocks – industrials

BBG Code	Company Name	Mkt Cap in US\$m	Rec	Price Target (Icy)		Upside/ Downside (%)	PER (07A) I	P/BV	Div Yield (09E)
Cheapest s	tocks on a trailing PER basis								
003600 KS	SK Holdings Co. Ltd.	4972.7	NR	-	112500	N/A	4.3	0.7	0.1
316 HK	Orient Overseas	2040.1	Neutral	35	25.45	37.5	5.0	0.4	6.6
047040 KS	Daewoo E&C	3740.2	NR	-	12200	N/A	5.2	1.2	0.5
005880 KS	Korean Line	1915.6	Out	270000	174500	54.7	5.3	1.1	1.4
UEM MK	UEM World Bhd	1072.2	NR	-	2.58	N/A	5.5	1.4	0.1
Cheapest s	tocks on a trailing PER basis rela	ative to their	[·] own hist	ory					
659 HK	NWS Holdings Ltd.	4196.6	NR	-	15.92	N/A	10.2	1.3	0.6
2727 HK	Shanghai Electric Group Co. Ltd.	1142.5	NR	-	3	N/A	12.8	1.3	0.3
576 HK	Zhejiang Expressway	2559.2	Out	7	4.6	52.2	8.5	1.2	7.9
010620 KS	Hyundai Mipo Dockyard	3238.9	Under	160000	170000	-5.9	6.9	0.9	3.5
047040 KS	Daewoo E&C	3740.2	NR	-	12200	N/A	5.2	1.2	0.5
	s are as of 22 August 2008. ctset, Macquarie Research, August :	2008							

Materials - both forward and trailing PER work well

 The two PERs – ie, trailing and forward – have been by far the best signals of value for the materials sector. Trailing PER is a slightly better signal of overvaluation while forward PER is a somewhat better signal of undervaluation, but both do a reasonably good job on both sides of the valuation equation (Figure 15).

Fig 15 Valuation metrics and performance – materials

		P/B	v		P/CF				PER (Trailing)				PER (Forward)			
	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	Ř2	R3	R4
3mths	3.5	0.8	3.2	5.9	3.0	2.1	-3.3	-6.9	2.4	2.9	-5.3	-2.8	3.6	4.0	-1.2	1.2
6mths	6.0	0.5	11.1	10.6	3.3	1.7	3.4	1.9	5.6	5.8	-13.8	-12.6	6.0	8.3	-2.8	-2.0
12mths	6.0	2.6	23.0	16.0	3.3	4.0	48.7	44.5	15.4	17.0	-27.4	-25.2	16.6	23.1	-10.7	-11.0

Source: I/B/E/S, MSCI, Macquarie Research, August 2008

R1 – more than 1 standard deviation below its historical average

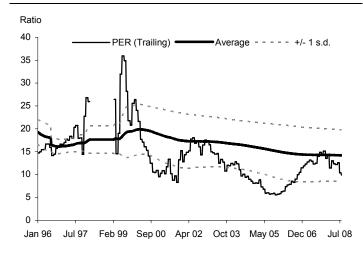
R2 – between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 - more than one standard deviation above its historical average

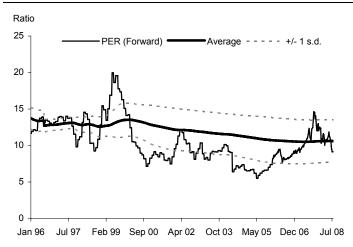
 For the overall sector, valuations have pulled back significantly recently, although the sector is still quite a long way from floor type valuations (which is where a lot of other sectors are trading at present).

Fig 16 Materials – trailing PER



Source: MSCI, Macquarie Research, August 2008

Fig 17 Materials – forward PER



Source: I/B/E/S, Macquarie Research, August 2008

While forward PER tends to do a better job at signalling undervaluation, with a major economic slowdown clearly underway, we remain very wary of downside risk to analysts' earnings projections. Indeed, the materials sector has not yet seen significant revisions to earnings, but if history is any guide, this could be ahead of us (the materials sector tends to see significant downgrades very late in the economic downcycle). For this reason, we have used trailing PER to find some cheap stocks in this sector (see Figure 18).

Fig 18	Cheap	stocks -	 materials
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BBG Code	Company Name	Mkt Cap in US\$m	Rec	Price Target (Icy)	Close Price (Icy)	Upside/ Downside (%)	PER (07A)	P/BV	Div Yield (09E)
Cheapest s	tocks on a trailing PER basis								
TATA IN	Tata Steel	10009.3	Outperform	1416	594.45	138.2	3.9	0.7	2.7
INCO IJ	International Nickel Indonesia	4321.5	NR	-	3975	N/A	4.6	2.2	0.7
PTTCH TB	PTT Chemical	3220.4	Outperform	140	73	91.8	4.6	0.9	9.3
ANTM IJ	Aneka Tambang	2003.7	NR	-	1920	N/A	5.0	1.5	0.5
011170 KS	Honam Petrochemical	2012.2	Neutral	85000	66300	28.2	5.9	0.6	1.5
Cheapest s	stocks on a trailing PER basis re	lative to	their own hi	story					
ACEM IN	Ambuja Cements	2806.6	Outperform	101	80	26.3	6.7	1.9	4.3
2689 HK	Nine Dragons Paper (Holdings)	2330.0	Outperform	8	4.2	90.5	10.9	1.0	2.2
1717 TT	Eternal Chemical Co. Ltd.	660.8	NR	-	23.45	N/A	7.8	1.1	0.4
2314 HK	Lee & Man Paper Manufacturing	1085.4	Outperform	14	7.45	87.9	8.0	0.9	3.5
TATA IN	Tata Steel	10009.3	Outperform	1416	594.45	138.2	3.9	0.7	2.7
	s are as of 22 August 2008. ctset Macquarie Research, August	2008							

Real estate - trailing PER is best

 As for the banks (the other financials sector), trailing PER is the best signal of value for the property sector. P/CF is probably second best and P/BV is very good at picking deep value (ie, when the sector is trading more than a full standard deviation below long-run average levels, this is a sign of very strong returns over the next 3–12 months), but forward PER is poor (Figure 19).

Fig 19	Valuation metrics and	performance – real estate
--------	-----------------------	---------------------------

		P/B	v		P/CF				PER (Trailing)				PER (Forward)			
	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	Ř2	R3	R4
3mths	9.1	-1.6	7.8	2.0	1.6	11.1	5.6	-1.7	9.2	5.5	1.9	-1.5	-0.1	5.8	5.0	-3.5
6mths	15.9	-5.7	4.8	5.9	2.2	15.5	3.7	-1.6	14.3	13.6	0.3	-0.7	-0.2	11.6	9.3	5.9
12mths	34.6	-10.9	14.0	-5.6	28.8	11.4	3.7	-5.1	34.7	11.1	0.8	-0.9	-4.0	21.7	-9.7	24.9
Source: I/B	/E/S, MSCI, Ma	cquarie F	Research	, Augus	t 2008											

R1 – more than 1 standard deviation below its historical average

R2 – between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 - more than one standard deviation above its historical average

The trailing PER is certainly suggesting the sector is currently very good value – this metric rarely
goes below current levels and, even when it does, the absolute low point is not that much lower
than at present and the sector does not stay at that valuation level for long (Figure 20).

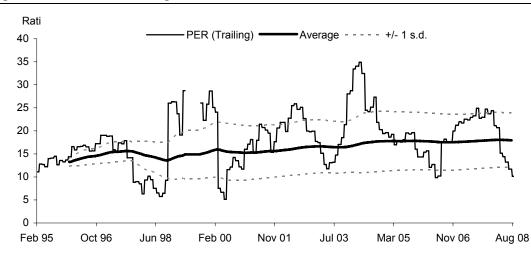


Fig 20 Real estate – trailing PER

Source: MSCI, Macquarie Research, August 2008

 Figure 21 below contains a list of real estate stocks that are currently very cheap on a trailing PER basis.

Fig 21 Cheap stocks – real estate

BBG Code	Company Name	Mkt Cap in US\$m	Rec	Price Target (Icy)	Close Price I (Icy)	Upside/ Downside (%)	PER (07A)	P/BV	Div Yield (09E)
	stocks on a trailing PER basis			(,,)	())	(74)	(,		()
CCT SP	CapitaCommercial Trust	1025 5	Outporform	3.05	1.85	64.9	1.9	0.6	6.0
	•		Outperform						
754 HK	Hopson		Outperform	12.7	6.68	90.1	3.5	0.3	6.8
KPLD SP	Keppel Land Ltd	2018.5	Outperform	7.2	3.93	83.2	4.5	1.2	2.0
CAPL SP	CapitaLand	8945.4	Outperform	7.04	4.45	58.2	5.8	1.3	3.4
KLCC MK	KLCC Property Holdings Bhd	774.7	. NR	-	2.77	N/A	6.1	0.6	0.6
Cheapest s	stocks on a trailing PER basis re	elative to	their own his	story					
754 HK	Hopson	1259.9	Outperform	12.7	6.68	90.1	3.5	0.3	6.8
CT SP	CapitaMall Trust		Outperform	3.75	2.72	37.9	8.2	1.2	5.3
IBREL IN	Indiabulls Real Estate		Outperform	690	283.2	143.6	17.2	1.2	0.0
813 HK	Shimao Property Holdings Ltd.	3517.3	NR	-	8.31	N/A	6.9	1.1	0.3
CCT SP	CapitaCommercial Trust	1835.5	Outperform	3.05	1.85	64.9	1.9	0.6	6.0
	es are as of 22 August 2008. ctset, Macquarie Research, Augus	st 2008							

Tech – P/BV

 Both trailing PER and P/BV are good signals of value for tech. P/BV is better as it tends to be more consistent and delivers larger returns (both on the long and the short side) when valuations are at extremes.

Fig 22 Valuation metrics and performance – Tech

		P/B	v		P/CF				PER (Trailing)				PER (Forward)			
	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	Ř3	R4	R1	R2	R3	R4
3mths	9.4	5.9	-8.1	-0.1	6.4	4.7	1.6	1.3	6.9	6.5	0.4	-2.4	-0.8	2.6	8.7	15.5
6mths	23.8	7.3	-1.7	-9.8	17.5	6.3	3.8	7.2	17.6	8.6	-8.4	-2.4	-1.2	10.4	19.8	20.0
12mths	41.9	18.5	-16.2	-34.4	29.7	14.8	-1.8	-0.9	28.7	12.1	-5.4	13.4	25.4	18.1	33.8	15.2

R1 - more than 1 standard deviation below its historical average

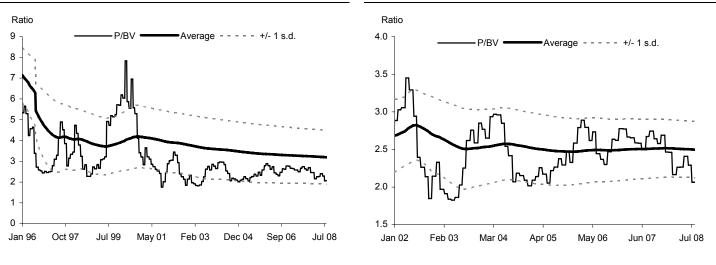
R2 - between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 - more than one standard deviation above its historical average

• The sector is getting close to floor type valuation levels now, whether looked at over a long-term time horizon (Figure 23) or post the de-rating that occurred in 2000/01 (Figure 24).

Fig 23 Tech – P/BV (long-run)



Source: MSCI, Macquarie Research, August 2008

Source: MSCI, Macquarie Research, August 2008

 As with the industrials sector, with earnings likely to be revised down further in coming months and company guidance currently poor, it is difficult to see a near-term positive catalyst. But looking longer term, it is clear that value is starting to emerge. Figure 25 below shows the stocks in the tech sector that are currently cheap on a P/BV basis and that our analysts rate Outperform.

Fig 25 Cheap stocks – tech

BBG Code	Company Name	Mkt Cap in US\$m	Rec	Price Target (Icy)	Close Price (Icy)	Upside/ Downside (%)	PER (09E)	P/BV	Div Yield (09E)
Cheap s	tocks on a P/BV basis								
6116 TT	Hannstar Display Corp	1265.1	Out	13.3	7.17	85.5	5.8	0.5	2.8
2475 TT	Chunghwa Picture Tubes	1897.1	Out	10	6.26	59.7	7.2	0.6	0.6
2327 TT	Yageo Corp	638.4	Out	15	9.1	64.8	8.5	0.6	4.0
3009 TT	Chi Mei Optoelectronics Corp	5920.3	Out	40	25.35	57.8	3.8	0.7	4.7
2384 TT	Wintek	644.2	Out	22.2	17.55	26.5	17.6	0.8	0.0
Cheap s	tocks on a P/BV basis relative to	their own ł	nistory						
3034 TT	Novatek Microelectronics	1190.4	Out	92	63.6	44.7	7.7	2.1	10.0
2384 TT	Wintek	644.2	Out	22.2	17.55	26.5	17.6	0.8	0.0
3009 TT	Chi Mei Optoelectronics Corp	5920.3	Out	40	25.35	57.8	3.8	0.7	4.7
3481 TT	InnoLux	4695.6	Out	82	47.2	73.7	9.5	1.3	1.7
2301 TT	Lite-On Technology Corp	2068.2	Out	40	29	37.9	8.4	0.8	5.5
	ices are as of 22 August 2008. Macquarie Research, August 2008								

Telcos - all valuation metrics work

Telcos are very much a valuation-based sector. That is, all valuation metrics are good signals of
value and good predictors of future performance (Figure 26). The simple strategy of buying when
a range of valuation metrics suggest the sector is cheap and selling when a range of metrics
suggest the sector is expensive tends to be a profitable over time.

Fig 26 Valuation metrics and performance – telcos

		P/BV					P/CF				PER (Trailing)				PER (Forward)			
	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4		
3mths	3.3	3.6	-4.9	-11.9	3.3	5.8	-12.9	-13.1	6.2	3.1	-7.3	-12.9	2.1	2.6	-8.1	-3.6		
6mths	5.5	7.1	-9.4	-23.7	3.8	12.4	-9.4	-25.9	7.1	5.7	-5.4	-23.2	3.5	7.6	-12.4	-8.5		
12mths	14.7	9.2	-16.2	-44.2	11.5	16.0	-19.7	-44.8	18.6	17.2	-2.3	-37.8	10.9	17.2	-16.8	-26.7		

ource: I/B/E/S, MSCI, Macquarie Research, August 2008

 $\mathsf{R1}-\mathsf{more}$ than 1 standard deviation below its historical average

R2 - between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 - more than one standard deviation above its historical average

Fig 24 Tech – P/BV (short-run)

• The sector is currently below long-run average levels, suggesting value is starting to emerge. Figure 27 below shows the stocks that are cheapest on a P/CF basis.

BBG Code	Company Name	Mkt Cap in US\$m	Rec	Price Target (Icy)		Upside/ Downside (%)	PCF	PER (09E)	P/BV (Div Yield (09E)
Cheapest s	tocks on a P/CF basis									
030200 KS	KT Corp	11009.2	Neutral	42600	42250	0.8	2.9	12.8	1.2	4.7
906 HK	China Netcom	17291.7	Outperform	28	20.15	39.0	3.7	11.1	1.2	3.5
032640 KS	LG TeleCom Co. Ltd.	2424.5	NR	-	9290	N/A	3.8	7.6	1.2	0.3
032390 KS	KTF	4815.6	Neutral	24200	26850	-9.9	3.9	16.6	1.1	2.6
728 HK	China Telecom	39395.3	Neutral	4.42	3.8	16.3	4.0	12.4	1.0	2.2
Cheapest s	stocks on a P/CF basis	relative to t	heir own hist	tory						
RCOM IN	Reliance Comm.	19296.7	Neutral	475	405.75	17.1	12.6	12.9	2.6	0.1
DTAC TB	Total Access Comm.	2965.9	Neutral	45	42.5	5.9	7.0	9.1	1.5	2.9
DIGI MK	Digi.Com	5515.3	Outperform	30.75	23.7	29.7	10.4	13.2	6.3	4.9
030200 KS	KT Corp	11009.2	Neutral	42600	42250	0.8	2.9	12.8	1.2	4.7
017670 KS	SK Telecom	14927.8	Outperform	242000	193000	25.4	4.0	9.0	1.2	4.9
	s are as of 22 August 20 ctset, Macquarie Researc		008							

Fig 27 Cheap stocks – telcos

Utilities - forward PER is probably best

Somewhat surprisingly, for utilities valuations are not, in general, particularly good guides to future
performance (Figure 28). Forward PER followed by P/CF are probably best, but buying when
these metrics suggest the sector is cheap does not guarantee good returns. Shorting when the
sector is expensive on these metrics has, however, been a profitable strategy in the past.

Fig 28 Valuation metrics and performance – utilities

	PER (forward)				
4 R1 R2	R3 R4				
0 1.0 4.2	-6.6 -3.9				
4 6.1 6.8	-9.1 -6.8				
5 1.0 9.1	-10.2 -6.7				
6.4	6.4 6.1 6.8				

Source: I/B/E/S, MSCI, Macquarie Research, August 2008

R1 - more than 1 standard deviation below its historical average

R2 - between a half and one standard deviation below its historical average

R3 – between a half and one standard deviation above its historical average

R4 - more than one standard deviation above its historical average

 With valuations in this sector no longer attractive, it is difficult to find utilities that are very good value. But there are some on single-digit forward PERs (Figure 29).

Fig 29 Valuation metrics and performance – utilities

BBG Code	Company Name	Mkt Cap in US\$m	Rec	Price Target (Icy)	Close Price (Icy)	Upside/ Downside (%)	PER (09E)	P/BV	Div Yield (09E)
Cheapest s	tocks on a forward PER basi	s							
270 HK	Guangdong Investment	2135.8	Out	5	2.71	84.5	8.1	1.0	4.4
TJN MK	Tanjong Plc	1496.7	Out	22	12.4	77.4	8.2	1.4	7.3
RATCH TB	Ratchaburi Electricity Generating	1613.2	Under	37.5	37.75	-0.7	8.6	1.3	7.0
EDC PM	PNOC Energy Development	1483.5	Out	7.5	4.5	66.7	9.2	1.5	6.0
GLOW TB	Glow Energy	1282.6	Neutral	36	29.75	21.0	10.1	1.3	5.0
Cheapest s	tocks on a forward PER basi	s relative to	o their ov	wn history					
YTL MK	YTL Corp. Bhd	3104.6	NR	-	6.35	N/A	13.6	1.2	0.5
RATCH TB	Ratchaburi Electricity Generating	1613.2	Under	37.5	37.75	-0.7	8.6	1.3	7.0
GLOW TB	Glow Energy	1282.6	Neutral	36	29.75	21.0	10.1	1.3	5.0
YTLP MK	YTL Power Int'l	3004.5	Neutral	2.17	1.78	21.9	13.2	2.1	7.0
TJN MK	Tanjong Plc	1496.7	Out	22	12.4	77.4	8.2	1.4	7.3
	s are as of 22 August 2008. ctset, Macquarie Research, Aug	just 2008							

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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

andation meanstime. F.

Recommendati	ion proport	ions – Fo	r quarter ei	naing 30 Ji	ine 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%

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

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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).

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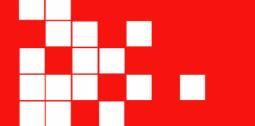
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Matthew Smith (Taiwan)	(8862) 2734 7514
Alastair Macdonald (Thailand)	(662) 694 7741
Chemicals/Textiles	
Scott Weaver (Taiwan)	(8862) 2734 7512
Jal Irani (India) Christina Lee (Korea)	(9122) 6653 3040 (822) 3705 8670
Sunaina Dhanuka (Malaysia)	(603) 2059 8993
Conglomerates	
Gary Pinge (Asia)	(852) 2823 3557
Leah Jiang (China)	(8621) 2412 9020
Kenneth Yap (Indonesia) Ashwin Sanketh (Singapore)	(6221) 515 7343 (65) 6231 2830
Consumer	(05) 0231 2830
	(952) 2001 1111
Mohan Singh (Asia) Jessie Qian (China, Hong Kong)	(852) 3901 1111 (852) 2823 3568
Charles Yan (China)	(8621) 2412 9033
Unmesh Sharma (India)	(9122) 6653 3042
Sarina Lesmina (Indonesia) Duane Sandberg (Japan)	(6221) 515 7339 (813) 3512 7867
Toby Williams (Japan)	(813) 3512 7392
Heather Kang (Korea)	(822) 3705 8677
HongSuk Na (Korea)	(822) 3705 8678
Woochang Chung (Korea)	(822) 3705 8667 (603) 2059 8982
Edward Ong (Malaysia) Alex Pomento (Philippines)	(632) 857 0899
Linda Huang (Taiwan)	(8862) 2734 7521
Emerging Leaders	
Hiu-Lui Ko (China)	(852) 2823 4704
Minoru Tayama (Japan)	(813) 3512 6058
Robert Burghart (Japan)	(813) 3512 7853
Heather Kang (Korea) Woochang Chung (Korea)	(822) 3705 8677 (822) 3705 8667
Scott Weaver (Taiwan)	(8862) 2734 7512
Industrials	
Bin Liu (China)	(8621) 2412 9006
Inderjeetsingh Bhatia (India)	(9122) 6653 3166
Christopher Cintavey (Japan)	(813) 3512 7432 (813) 3512 7475
Janet Lewis (Japan) Sunaina Dhanuka (Malaysia)	(813) 3512 7475 (603) 2059 8993
David Gambrill (Thailand)	(662) 694 7753

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Michelle Paisley (China, Hong Kong)
Ulrike Pollak-Tsutsumi (Frankfurt)
Thomas Renz (Geneva)
Ajay Bhatia (India)
Stuart Smythe (India)
Chris Gray (Indonesia)
K.Y. Nam (Korea)
Derek Wilson (London) (N Asia)
Julien Roux (London)
Lena Yong (Malaysia)
Gino C Rojas (Philippines)
Greg Norton-Kidd (New York)
Luke Sullivan (New York)
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6	Mark Kellock (Asia)	(852) 2823 3567
	Seshadri Sen (Asia, India)	(9122) 6653 3053
8	Makarim Salman (Japan)	(813) 3512 7421
57	Media	
3	Jessie Qian (China, Hong Kong)	(852) 2823 3568
7	Shubham Majumder (India)	(9122) 6653 3049
0	Prem Jearajasingam (Malaysia)	(603) 2059 8989
3	Alex Pomento (Philippines)	(632) 857 0899
4	Oil and Gas	
21		(952) 2022 4601
	David Johnson (Asia, China) Scott Weaver (Taiwan)	(852) 2823 4691 (8862) 2734 7512
	Jal Irani (India)	(9122) 6653 3040
	Christina Lee (Korea)	(822) 3705 8670
4	Edward Ong (Malaysia)	(603) 2059 8982
35	Sunaina Dhanuka (Malaysia)	(603) 2059 8993
53	Ashwin Sanketh (Singapore)	(65) 6231 2830
5	Trevor Buchinski (Thailand)	(662) 694 7728
8	Pharmaceuticals	
		(0400) 0050 0050
11	Abhishek Singhal (India)	(9122) 6653 3052
14	Naomi Kumagai (Japan) Christina Lee (Korea)	(813) 3512 7474 (822) 3705 8670
		(022) 3703 0070
	Property	
12	Matt Nacard (Asia)	(852) 2823 4731
40	Eva Lee (China, Hong Kong)	(852) 2823 3573
0	Tata Goeyardi (Hong Kong)	(852) 2823 4077
3	Unmesh Sharma (India)	(9122) 6653 3042
	Chang Han Joo (Japan)	(813) 3512 7885
	Hiroshi Okubo (Japan)	(813) 3512 7433
7	Tuck Yin Soong (Singapore)	(65) 6231 2838
20	Elaine Cheong (Singapore)	(65) 6231 2839
3	Corinne Jian (Taiwan) Patti Tomaitrichitr (Thailand)	(8862) 2734 7522 (662) 694 7727
	Resources / Metals and Min	<u> </u>
	Andrew Dale (Asia)	(050) 0000 0507
1		(852) 2823 3587
	YeeMan Chin (China)	(852) 2823 3562
8	YeeMan Chin (China) Rakesh Arora (India)	(852) 2823 3562 (9122) 6653 3054
8 33	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338
8 33 42	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886
8 33 42 9	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670
8 33 42 9 7	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886
8 33 42 9 7 2	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670
8 33 42 9 7 2 7 8	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592
8 33 42 9 7 2 7 8 7	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046
8 33 42 9 7 2 7 8 7	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877
8 33 42 9 7 2 7 8 7 8 7 2	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7880
8 33 42 9 7 2 7 8 7 8 7 2	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7854
8 33 42 9 7 2 7 8 7 8 7 2	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 2734 7512 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7850 (813) 3512 7854 (813) 3512 7862
8 33 42 9 7 2 7 8 7 2 2	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7854 (813) 3512 7864 (813) 3512 7864 (813) 3512 5984
8 33 42 9 7 2 7 8 7 2 2 21	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7880 (813) 3512 7854 (813) 3512 7862 (813) 3512 7864 (813) 3512 7864
8 33 42 9 7 2 7 8 7 2 21 4 8	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 5984 (813) 3512 5984 (822) 3705 8659
8 33 42 9 7 2 7 8 7 2 21 4 8 3	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7880 (813) 3512 7862 (813) 3512 7864 (813) 3512 7864 (813) 3512 5984 (822) 3705 8659 (65) 6231 2835
8 33 42 9 7 2 7 8 7 2 21 4 8 3 7	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) David Gibson (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7857 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7864 (813) 3512 7865 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854
8 33 42 9 7 2 7 8 7 2 21 4 8 3 7 7	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yoshihiro Shimada (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Chia-Lin Lu (Taiwan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7880 (813) 3512 7862 (813) 3512 7864 (813) 3512 7864 (813) 3512 5984 (822) 3705 8659 (65) 6231 2835
8 33 42 9 7 2 7 8 7 2 21 4 8 3 7 7	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) Devid Gibson (Japan) Oschihiro Shimada (Japan) Yushihiro Soto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Daniel Chang (Taiwan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7880 (813) 3512 7854 (813) 3512 7862 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (822) 3705 8659 (65) 6231 2835 (8862) 2734 7536
1 8 333 42 9 7 2 7 8 7 2 21 4 8 3 7 7 7 12	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Chia-Lin Lu (Taiwan) Daniel Chang (Taiwan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7854 (813) 3512 7854 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (822) 3705 8659 (65) 6231 2835 (8862) 2734 7534 (8862) 2734 7516 (8862) 2734 7517
8 33 42 9 7 2 7 8 7 2 21 4 8 3 7 7	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Daniel Chang (Taiwan) James Chiu (Taiwan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 7864 (813) 3512 7865 (813) 3512 7865 (813) 3512 7865 (813) 3512 7865 (813) 3512 7865 (813) 3512 7865 (813) 3512 7864 (813) 3512 7864 (813) 3705 8659 (65) 6231 2835 (8862) 2734 7534 (8862) 2734 7534
8 33 42 9 7 2 7 7 8 7 7 2 21 4 8 3 7 7 7 12 06 66	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Daniel Chang (Taiwan) James Chiu (Taiwan) James Chiu (Taiwan) Micholas Teo (Taiwan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7880 (813) 3512 7884 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 78659 (65) 6231 2835 (8862) 2734 7553 (8862) 2734 7554 (8862) 2734 7517 (8862) 2734 7517
8 33 42 9 7 7 7 8 7 2 21 4 8 3 7 7 12 06 666 2	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Danian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yoshihiro Shimada (Japan) Yobihiro Shimada (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Daniel Chang (Taiwan) Daniel Chang (Taiwan) James Chiu (Taiwan) Micholas Teo (Taiwan) Telecoms Tim Smart (Asia, China)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7857 (813) 3512 7864 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7865 (813) 3512 7865 (813) 3512 7865 (813) 3512 7865 (813) 3512 7864 (813) 3512 7864 (813) 3512 7865 (813) 3512 7865 (813) 3512 7854 (822) 3705 8659 (65) 6231 2835 (8862) 2734 7554 (8862) 2734 7516 (8862) 2734 7523 (8852) 2734 7523
8 33 42 9 7 7 7 8 7 2 21 4 8 3 7 7 12 06 6 6 2 5	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yoshihiro Shimada (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Daniel Chang (Taiwan) James Chiu (Taiwan) James Chiu (Taiwan) Telecoms Tim Smart (Asia, China) Shubham Majumder (India)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7880 (813) 3512 7854 (813) 3512 7862 (813) 3512 7862 (813) 3512 7864 (813) 3512 7862 (813) 3512 7864 (813) 3512 7864 (813) 3512 7862 (813) 3512 7864 (813) 3512 7854 (862) 2734 7554 (8862) 2734 7554 (8862) 2734 7553 (8862) 2734 7553 (8862) 2734 7553 (8862) 2734 7553
8 33 42 9 7 7 7 8 7 2 21 4 8 3 7 7 12 06 666 2	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Daniel Chang (Taiwan) Daniel Chang (Taiwan) James Chiu (Taiwan) Michael Teo (Taiwan) Daniel Chang (Taiwan) James Chiu (Taiwan) Tim Smart (Asia, China) Shubham Majumder (India) Kenneth Yap (Indonesia)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7862 (813) 3512 7864 (813) 3512 7854 (862) 2734 7554 (8862) 2734 7556 (8862) 2734 7556 (8862) 2734 7557 (8862) 2734 7553 (8862) 2734 7553 (8862) 2734 7553 (8862) 2734 7553 (8862) 2734 7553
8 33 42 9 7 7 7 8 7 2 21 4 8 3 7 7 12 06 6 6 2 5	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Daniel Chang (Taiwan) James Chiu (Taiwan) James Chiu (Taiwan) Micholas Teo (Taiwan) Telecoms Tim Smart (Asia, China) Shubham Majumder (India) Kenneth Yap (Indonesia) Nathan Ramler (Japan)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7877 (813) 3512 7880 (813) 3512 7884 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (822) 3705 8659 (65) 6231 2835 (8862) 2734 7526 (8862) 2734 7526 (8862) 2734 7523 (8862) 2734 7523 (8862) 2734 7523 (8862) 2734 7523 (8862) 2734 7523
8 33 42 9 7 7 7 8 7 2 21 4 8 3 7 7 12 06 6 6 2 5	YeeMan Chin (China) Rakesh Arora (India) Adam Worthington (Indonesia) Polina Diyachkina (Japan) Christina Lee (Korea) Scott Weaver (Taiwan) Technology Warren Lau (Asia) Kishore Belai (India) Damian Thong (Japan) David Gibson (Japan) George Chang (Japan) Yoshihiro Shimada (Japan) Yukihiro Goto (Japan) Do Hoon Lee (Korea) Michael Bang (Korea) Patrick Yau (Singapore) Andy Kung (Taiwan) Daniel Chang (Taiwan) Daniel Chang (Taiwan) James Chiu (Taiwan) Michael Teo (Taiwan) Daniel Chang (Taiwan) James Chiu (Taiwan) Tim Smart (Asia, China) Shubham Majumder (India) Kenneth Yap (Indonesia)	(852) 2823 3562 (9122) 6653 3054 (6221) 515 7338 (813) 3512 7886 (822) 3705 8670 (8862) 2734 7512 (852) 2823 3592 (9122) 6653 3046 (813) 3512 7854 (813) 3512 7854 (813) 3512 7854 (813) 3512 7862 (813) 3512 7864 (813) 3512 7854 (862) 2734 7554 (8862) 2734 7556 (8862) 2734 7556 (8862) 2734 7557 (8862) 2734 7553 (8862) 2734 7553 (8862) 2734 7553 (8862) 2734 7553 (8862) 2734 7553
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