Macquarie Equities Research





The Asia Specialist

INDIA		
AURFI IN	Out	perform
Price 6 May 10	Rs	153.30
12-month target	Rs	197.00
Upside/Downside	%	28.5
Valuation - DCF	Rs	197.00
GICS sector	Software	& Services
Market cap	Rsm	7,249
30-day avg turnover	US\$m	1.9
Market cap	US\$m	160
Number shares on iss	sue m	47.29

Investment fundamentals

Year end 31 Mar		2009A	2010E	2011E	2012E
Total revenue	m	11,113	12,304	15,183	18,220
EBIT	m	2,562	2,299	2,839	3,368
EBIT growth	%	44.8	-10.3	23.5	18.6
Adjusted profit	m	1,683	1,298	1,625	2,016
EPS adj	Rs	32.94	25.16	31.50	39.08
EPS adj growth	%	51.4	-23.6	25.2	24.0
PER adj	Х	4.7	6.1	4.9	3.9
Total DPS	Rs	3.82	2.72	3.41	4.23
Total div yield	%	2.5	1.8	2.2	2.8
ROA	%	29.3	20.5	21.3	21.5
ROE	%	37.5	20.7	20.3	20.9
EV/EBITDA	Х	3.0	3.3	2.7	2.2
Net debt/equity	%	24.4	0.0	-6.8	-8.0
P/BV	Х	1.5	1.1	0.9	8.0

AURFI IN rel BSE Sensex performance, & rec history



Note: Recommendation timeline - if not a continuous line, then there was no Macquarie coverage at the time or there was an embargo period.

Source: FactSet, Macquarie Research, May 2010 (all figures in INR unless noted)

ICSA

Stress due to revenue mix to continue

Event

ICSA reported FY10 results that were in line with expectations. We are reducing our estimates on margins, as the projects business continues to dominate order book. In addition, we reduced our target price to Rs197 from Rs205.

Impact

- Results in line with expectations: ICSA reported FY10 revenue growth of 11%, which was in line with our expectation. However, margin at 20.4% was slightly lower than our estimate, due to continued domination of infra projects in revenues. FY10 PAT stood at Rs1.3bn (vs our estimate of Rs1.34bn). We are maintaining our revenue estimates, which call for growth of 23% in FY11 and 20% in FY12.
- Change in mix continues to affect margins, as expected: The shift towards the lower-margin infra projects segment continues. The high-margin software product business accounted for only 32% in 4Q FY10 and 34% for the full year.
 - ⇒ We build in margins risk, due to higher mix of projects in overall revenues: We have reduced our FY11 and FY12 estimates to build in a margin decline to 20.3%, as we expect the current revenue mix to continue in FY11 (36% coming from software division and 64% coming from the projects business). Our previous margin estimate was 21.4%.
- Order book is healthy at Rs18.4bn: Although the order book stands flat YoY, the composition has changed significantly. The projects business constitutes at 81% of order book in FY10 vs 66% in FY09.

Earnings and target price revision

 We have reduced our EPS estimates for FY11 and FY12 by 9% each, building in lower margin due to the projects business. In addition, we have reduced our target price to Rs197 from Rs205.

Price catalyst

- 12-month price target: Rs197.00 based on a DCF methodology.
- Catalyst: Higher revenues and margins from next quarter.

Action and recommendation

• Stock attractive at 4.9x FY11 earnings: On our current FY11 EPS estimate of Rs31.5, the stock is trading at 4.9x. Our target price of Rs197 builds in margin risk due to low-margin infrastructure projects. We expect the revenue mix and margins in FY11 to be the same as in FY10.

Inderjeetsingh Bhatia

91 22 6653 3166 inderjeet.bhatia@macquarie.com Abhishek Bhandari

91 22 6653 3065 abhishek.bhandari@macquarie.com

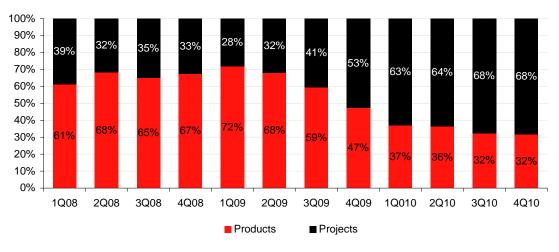
10 May 2010

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

Fig 1 Shift towards low-margin projects business continues

Rsmn	4Q09	4Q10	YoY	FY09	FY10	YoY
Revenues	2,861	3,004	5%	11,113	12,304	11%
COGS	2,050	2,257	10%	7,796	9,060	16%
Gross Profit	811	748	-8%	3,318	3,244	-2%
SG&A	185	162	-13%	645	736	14%
EBITDA	625	586	-6%	2,673	2,508	-6%
Net Financial Cost	105	204	95%	331	625	89%
Depreciation	35	68	94%	111	209	89%
Other Income	10	73	598%	18	114	544%
PBT	496	386	-22%	2,249	1,788	-20%
Tax	156	115	-26%	566	490	-13%
PAT	340	271	-20%	1,683	1,298	-23%
Gross margin	28.3%	24.9%	-3.5%	29.9%	26.4%	-3.5%
EBITDA margin	21.9%	19.5%	-2.4%	24.1%	20.4%	-3.7%
Net margin	11.9%	9.0%	-2.9%	15.1%	10.5%	-4.6%
Tax rate	31.4%	29.8%	-1.5%	25.2%	27.4%	2.2%
Revenue break-up						
Embedded Solutions & Software	1,352	949	-30%	6,796	4,227	-38%
Services						
Infrastructure Projects & Services	1,509	2,051	36%	4,317	8,073	87%
PBIT						
Embedded Solutions & Software	415	257	-38%	2,065	891	-57%
Services						
Infrastructure Projects & Services	175	263	51%	497	777	56%
PBIT margins						
Embedded Solutions & Software	30.7%	27.1%	-3.6%	30.4%	21.1%	-9.3%
Services						
Infrastructure Projects & Services	11.6%	12.8%	1.3%	11.5%	9.6%	-1.9%
Order position						
Order book	19,150	18,350	-4%	19,150	18,350	-4%
Order inflow	5,150	1,304	-75%	19,402	11,504	-41%
Source: Macquarie Research, May 20	10					

Fig 2 Projects business contributes to form bulk (c68%) of revenues



Source: Company data, Macquarie Research, May 2010

Fig 3 We expect margins to stabilise at 20.3% in FY11 and FY12, as we expect the current revenue mix to continue

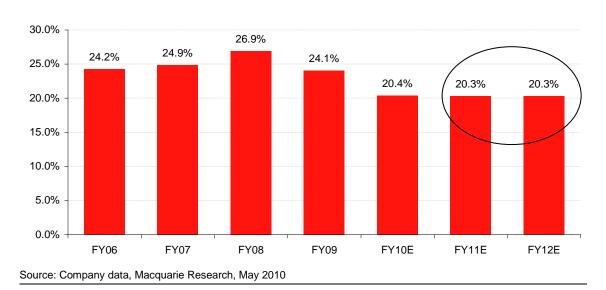


Fig 4 We are lowering our EPS estimates for FY11 and FY12 by 9%

		FY11E		FY12E		Change	
		old	new	old	new	FY11E	FY12E
Net Revenues	Rsmn	15,183	15,183	18,220	18,220	0%	0%
EBITDA	Rsmn	3,345	3,082	4,014	3,699	-8%	-8%
Net Income	Rsmn	1,793	1,625	2,221	2,016	-9%	-9%
EPS	Rs	34.8	31.5	43.0	39.1	-9%	-9%
EBITDA margin	%	21.5%	20.3%	21.5%	20.3%	-1%	-1%

ICSA (AURFI IN, Outperform, Target Price: Rs197.00)											
Quarterly Results		3Q/10A	4Q/10E	1Q/11E	2Q/11E	Profit & Loss		2009A	2010E	2011E	2012E
Revenue	m	3,445	3,937	2,733	3,340	Revenue	m	11,113	12,304	15,183	18,220
Gross Profit	m	908	1,038	719	878	Gross Profit	m	3,318	3,244	3,993	4,792
Cost of Goods Sold	m	2,537	2,899	2,014	2,462	Cost of Goods Sold	m	7,796	9,060	11,190	13,428
EBITDA	m	702	803	555	678	EBITDA	m	2,673	2,508	3,082	3,699
Depreciation	m	59	67	44	54	Depreciation	m	111	209	244	331
Amortisation of Goodwill	m	0	0	0	0	Amortisation of Goodwill	m	0	0	0	0
Other Amortisation	m	0	0	0	0	Other Amortisation	m	0	0	0	0
EBIT	m	644	736	511	624	EBIT	m	2,562	2,299	2,839	3,368
Net Interest Income	m	-175	-200	-128	-157	Net Interest Income	m	-331	-625	-713	-744
Associates	m	0	0	0	0	Associates	m	0	0	0	0
Exceptionals	m	0	0	0	0	Exceptionals	m	0	0	0	0
Forex Gains / Losses	m	0	0	0	0	Forex Gains / Losses	m	0	0	0	0
Other Pre-Tax Income Pre-Tax Profit	m	32	36 572	20	24 492	Other Pre-Tax Income	m	18	114	110	149
	m	501	-157	402 -110		Pre-Tax Profit	m	2,249	1,788	2,236	2,773
Tax Expense Net Profit	m m	-137 363	-157 415	293	-134 358	Tax Expense Net Profit	m m	-566 1,683	-490 1,298	-610 1,625	-757 2,016
Minority Interests	m	0	0	0	0	Minority Interests	m	0	0	0	2,010
Reported Earnings	m	363	415	293	358	Reported Earnings	m	1,683	1,298	1,625	2,016
Adjusted Earnings	m	363	415	293	358	Adjusted Earnings	m	1,683	1,298	1,625	2,016
EPS (rep)		7.04	8.05	5.67	6.93	EPS (rep)		32.94	25.16	31.50	39.08
EPS (adj)		7.04	8.05	5.67	6.93	EPS (adj)		32.94	25.16	31.50	39.08
EPS Growth yoy (adj)	%	-23.6	-23.6	25.2	25.2	EPS Growth (adj)	%	51.4	-23.6	25.2	24.0
						PE (rep)	x	4.7	6.1	4.9	3.9
						PE (adj)	Х	4.7	6.1	4.9	3.9
EBITDA Margin	0/	20.4	20.4	20.3	20.3	Total DPS		2 02	2.72	2 /1	1 22
EBITDA Margin EBIT Margin	% %	20.4 18.7	20.4 18.7	20.3 18.7	20.3 18.7	Total DPS Total Div Yield	%	3.82 2.5	2.72 1.8	3.41 2.2	4.23 2.8
Earnings Split	%	28.0	32.0	18.0	22.0	Weighted Average Shares	m	2.3 51	52	52	52
Revenue Growth	%	10.7	10.7	23.4	23.4	Period End Shares	m	51	52	52	52
EBIT Growth	%	-10.3	-10.3	23.5	23.5	1 chod End Chares		01	02	02	02
Profit and Loss Ratios		2009A	2010E	2011E	2012E	Cashflow Analysis		2009A	2010E	2011E	2012E
Revenue Growth	%	65.7	10.7	23.4	20.0	EBITDA	m	2,673	2,508	3,082	3,699
EBITDA Growth	%	48.1	-6.2	22.9	20.0	Tax Paid	m	-566	-490	-610	-757
EBIT Growth	%	44.8	-10.3	23.5	18.6	Chgs in Working Cap	m	-1,275	-607	-637	-1,133
Gross Profit Margin	%	29.9	26.4	26.3	26.3	Net Interest Paid	m	-331	-625	-713	-744
EBITDA Margin	%	24.1	20.4	20.3	20.3	Other	m	0	0	0	0
EBIT Margin	%	23.1	18.7	18.7	18.5	Operating Cashflow	m	501	787	1,122	1,065
Net Profit Margin	%	15.1	10.5	10.7	11.1	Acquisitions	m	0	0	0	0
Payout Ratio	%	11.6	10.8	10.8	10.8	Capex	m	-176	-390	-455	-729
EV/EBITDA	Х	3.0	3.3	2.7	2.2	Asset Sales	m	0	0	0	0
EV/EBIT	Х	3.2	3.6	2.9	2.4	Other	m	18	114	110	149
						Investing Cashflow	m	-159	-276	-346	-579
Balance Sheet Ratios						Dividend (Ordinary)	m	-192	-148	-185	-185
ROE	%	37.5	20.7	20.3	20.9	Equity Raised	m	0	7	0	0
ROA	%	29.3	20.5	21.3	21.5	Debt Movements	m	500	-315	200	0
ROIC	%	37.1	25.6	28.3	30.1	Other	m	0	0	0	0
Net Debt/Equity	%	24.4	0.0	-6.8	-8.0	Financing Cashflow	m	308	-456	15	-185
Interest Cover Price/Book	x x	7.7 1.5	3.7 1.1	4.0 0.9	4.5 0.8	Net Chg in Cash/Debt	m	1,558	55	791	300
Book Value per Share	^	102.4	141.4	169.3	204.0						
						Free Cashflow	m	325	397	667	336
						Balance Sheet		2009A	2010E	2011E	2012E
						Cash	m	1,236	2,198	2,990	3,245
						Receivables	m	4,719	5,562	6,448	7,488
						Inventories	m	365	405	499	599
						Investments	m	0	0	0	0
						Fixed Assets	m	1,008	1,189	1,401	1,798
						Intangibles	m	0	0	0	0
						Other Assets	m	2,888	2,860	3,114	3,737
						Total Assets	m	10,217	12,214	14,451	16,867
						Payables	m	1,747	1,935	2,387	2,865
						Short Term Debt	m	0	0	0	0
						Long Term Debt	m	2,514	2,199	2,399	2,399
						Provisions	m	556	615	759	911
						Other Liabilities	m	168	168	168	168
						Total Liabilities	m	4,985	4,917	5,713	6,343
						Shareholders' Funds	m	5,232	7,297	8,738	10,524
						Minority Interests	m	0	0	0	U
						Other Total S/H Equity	m m	0 5,232	7 207	-	0 10 524
						Total S/H Equity Total Liab & S/H Funds	m m	5,232 10,217	7,297 12,214	8,738 14,451	10,524 16,867
						I TOTAL ELAD & O/IT FULLS	111	10,217	14,414	14,401	10,007
All figures in INR unless noted.			10								
Source: Company data, Macqu	arie Resea	arcn, May 201	IU								

Important disclosures:

Recommendation definitions

Macquarie - Australia/New Zealand

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

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 Russell 3000 index return

Neutral (Hold) - return within 5% of Russell 3000 index

Underperform (Sell)- return >5% below Russell 3000 index return

Recommendations - 12 months

Note: Quant recommendations may differ from Fundamental Analyst recommendations

Volatility index definition*

This is calculated from the volatility of historical 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/Canada 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

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

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

Recommendation proportions - For quarter ending 31 March 2010

	AU/NZ	Asia	RSA	USA	CA	EUR	
Outperform	50.55%	62.20%	42.25%	42.39%	62.16%	46.74%	(for US coverage by MCUSA, 6.53% of stocks covered are investment banking clients)
Neutral	36.63%	19.02%	47.89%	50.35%	31.89%	34.78%	(for US coverage by MCUSA, 9.62% of stocks covered are investment banking clients)
Underperform	12.82%	18.78%	9.86%	7.27%	5.95%	18.48%	(for US coverage by MCUSA, 0.00% of stocks covered are investment banking clients)

Company Specific Disclosures:

Important disclosure information regarding the subject companies covered in this report is available at www.macquarie.com/research/disclosures.

Analyst Certification:

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

General Disclaimers:

Macquarie Securities (Australia) Ltd; Macquarie Capital (Europe) Ltd; Macquarie Capital Markets Canada Ltd; Macquarie Capital Markets North America Ltd; Macquarie Capital (USA) Inc; Macquarie Capital Securities Ltd and its Taiwan branch; Macquarie Capital Securities (Singapore) Pte Ltd; Macquarie Securities (NZ) Ltd; Macquarie First South Securities (Pty) Limited; Macquarie Capital Securities (India) Pvt Ltd; Macquarie Capital Securities (Malaysia) Sdn Bhd; and Macquarie Securities (Thailand) Ltd are not authorized deposit-taking institutions for the purposes of the Banking Act 1959 (Commonwealth of Australia), and their obligations do not represent deposits or other liabilities of Macquarie Bank Limited ABN 46 008 583 542 (MBL) or MGL. MBL does not guarantee or otherwise provide assurance in respect of the obligations of any of the above mentioned entities. MGL provides a guarantee to the Monetary Authority of Singapore in respect of the obligations and liabilities of Macquarie Capital Securities (Singapore) Pte Ltd for up to SGD 35 million. This research has been prepared for the general use of the wholesale clients of the Macquarie Group and must not be copied, either in whole or in part, or distributed to any other person. If you are not the intended recipient you must not use or disclose the information in this research in any way. If you received it in error, please tell us immediately by return e-mail and delete the document. We do not guarantee the integrity of any e-mails or attached files and are not responsible for any changes made to them by any other person. MGL has established and implemented a conflicts policy at group level (which may be revised and updated from time to time) (the "Conflicts Policy") pursuant to regulatory requirements (including the FSA Rules) which sets out how we must seek to identify and manage all material conflicts of interest. 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 your investment objectives, financial situation or particular needs. Before making an investment decision on the basis of this research, you need to consider, with or without the assistance of an adviser, whether the advice is appropriate in light of your 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. Clients should contact analysts at, and execute transactions through, a Macquarie Group entity in their home jurisdiction unless governing law permits otherwise.

Country-Specific Disclaimers:

Australia: In Australia, research is issued and distributed by Macquarie Securities (Australia) Ltd (AFSL No. 238947), a participating organisation of the Australian Securities Exchange. New Zealand: In New Zealand, research is issued and distributed by Macquarie Securities (NZ) Ltd, a NZX Firm. Canada: In Canada, research is prepared, approved and distributed by Macquarie Capital Markets Canada Ltd, a participating organisation of the Toronto Stock Exchange, TSX Venture Exchange & Montréal Exchange. Macquarie Capital Markets North America Ltd., which is a registered brokerdealer and member of FINRA, accepts responsibility for the contents of reports issued by Macquarie Capital Markets Canada Ltd in the United States and sent to US persons. Any person wishing to effect transactions in the securities described in the reports issued by Macquarie Capital Markets Canada Ltd should do so with Macquarie Capital Markets North America Ltd. The Research Distribution Policy of Macquarie Capital Markets Canada Ltd is to allow all clients that are entitled to have equal access to our research. United Kingdom: In the United Kingdom, research is issued and distributed by Macquarie Capital (Europe) Ltd, which is authorised and regulated by the Financial Services Authority (No. 193905). Germany: In

5 10 May 2010

Germany, research is issued and distributed by Macquarie Capital (Europe) Ltd, Niederlassung Deutschland, which is authorised and regulated in the United Kingdom by the Financial Services Authority (No. 193905). France: In France, research is issued and distributed by Macquarie Capital (Europe) Ltd, which is authorised and regulated in the United Kingdom by the Financial Services Authority (No. 193905). Hong Kong: In Hong Kong, research is issued and distributed by Macquarie Capital Securities Ltd. which is licensed and regulated by the Securities and Futures Commission, Japan: In Japan, research is issued and distributed by Macquarie Capital Securities (Japan) Limited, a member of the Tokyo Stock Exchange, Inc., Osaka Securities Exchange Co. Ltd, and Jasdaq Securities Exchange, Inc. (Financial Instruments Firm, Kanto Financial Bureau (kin-sho) No. 231, a member of Japan Securities Dealers Association and Financial Futures Association of Japan). India: In India, research is issued and distributed by Macquarie Capital Securities (India) Pvt Ltd, which is a SEBI registered Stock Broker having membership with National Stock Exchange of India Limited (INB231246738) and Bombay Stock Exchange Limited (INB011246734). Malaysia: In Malaysia, research is issued and distributed by Macquarie Capital Securities (Malaysia) Sdn. Bhd. (Company registration number: 463469-W) which is a Participating Organisation of Bursa Malaysia Berhad and a holder of Capital Markets Services License issued by the Securities Commission. Taiwan: Information on securities/instruments that are traded in Taiwan is distributed by Macquarie Capital Securities Ltd, Taiwan Branch, which is licensed and regulated by the Financial Supervisory Commission. No portion of the report may be reproduced or quoted by the press or any other person without authorisation from Macquarie. Thailand: In Thailand, research is issued and distributed by Macquarie Securities (Thailand) Ltd, a licensed securities company that is authorized by the Ministry of Finance, regulated by the Securities and Exchange Commission of Thailand and is an exchange member no. 28 of the Stock Exchange of Thailand. The Thai Institute of Directors Association has disclosed the Corporate Governance Report of Thai Listed Companies made pursuant to the policy of the Securities and Exchange Commission of Thailand. Macquarie Securities (Thailand) Ltd does not endorse the result of the Corporate Governance Report of Thai Listed Companies but this Report can be accessed at: http://www.thai-iod.com/en/publications.asp?type=4. South Africa: In South Africa, research is issued and distributed by Macquarie First South Securities (Pty) Limited, a member of the JSE Limited. Singapore: In Singapore, research is issued and distributed by Macquarie Capital Securities (Singapore) Pte Ltd (Company Registration Number: 198702912C), a Capital Markets Services license holder under the Securities and Futures Act to deal in securities and provide custodial services in Singapore. Pursuant to the Financial Advisers (Amendment) Regulations 2005, Macquarie Capital Securities (Singapore) Pte Ltd is exempt from complying with sections 25, 27 and 36 of the Financial Advisers Act. All Singapore-based recipients of research produced by Macquarie Capital (Europe) Limited, Macquarie Capital Markets Canada Ltd, Macquarie First South Securities (Pty) Limited and Macquarie Capital (USA) Inc. represent and warrant that they are institutional investors as defined in the Securities and Futures Act. United States: In the United States, research is issued and distributed by Macquarie Capital (USA) Inc., which is a registered broker-dealer and member of FINRA. Macquarie Capital (USA) Inc., accepts responsibility for the content of each research report prepared by one of its non-US affiliates when the research report is distributed in the United States by Macquarie Capital (USA) Inc. Macquarie Capital (USA) Inc.'s affiliate's analysts are not registered as research analysts with FINRA, may not be associated persons of Macquarie Capital (USA) Inc., and therefore may not be subject to FINRA rule restrictions on communications with a subject company, public appearances, and trading securities held by a research analyst account. Any persons receiving this report directly from Macquarie Capital (USA) Inc. and wishing to effect a transaction in any security described herein should do so with Macquarie Capital (USA) Inc. Important disclosure information regarding the subject companies covered in this report is available at www.macquarie.com/research/disclosures, or contact your registered representative at 1-888-MAC-STOCK, or write to the Supervisory Analysts, Research Department, Macquarie Securities, 125 W.55th Street, New York, NY 10019. © Macquarie Group

Auckland	Bangkok	Calgary	Hong Kong	Jakarta	Johannesburg	Kuala Lumpur
Tel: (649) 377 6433	Tel: (662) 694 7999	Tel: (1 403) 218 6650	Tel: (852) 2823 3588	Tel: (62 21) 515 1818	Tel: (2711) 583 2000	Tel: (60 3) 2059 8833
London	Manila	Melbourne	Montreal	Mumbai	Perth Tel: (618) 9224 0888	Seoul
Tel: (44 20) 3037 4400	Tel: (63 2) 857 0888	Tel: (613) 9635 8139	Tel: (1 514) 925 2850	Tel: (91 22) 6653 3000		Tel: (82 2) 3705 8500
Shanghai Tel: (86 21) 6841 3355	Singapore Tel: (65) 6231 1111	Sydney Tel: (612) 8232 9555	Taipei Tel: (886 2) 2734 7500	Tokyo Tel: (81 3) 3512 7900	Toronto Tel: (1 416) 848 3500	New York Tel: (1 212) 231 2500

Available to clients on the world wide web at www.macquarieresearch.com and through Thomson Financial, FactSet, Reuters, Bloomberg, CapitallQ and TheMarkets.com.

Macquarie **Equities Research**





Asia Research

Head	of	Equity	Research

John O'Connell (Global Co – Head)	(612) 8232 7544
David Rickards (Global Co - Head)	(44 20) 3037 4399
Chris Hunt (Asia – Head)	(852) 3922 1119
Tim Smart (Asia – Deputy Head)	(852) 3922 3565

Automobiles/Auto Parts

(8621) 2412 9020 (813) 3512 7856 Leah Jiang (China) Clive Wiggins (Japan) Dan Lucas (Japan) (813) 3512 6050 ES Kwak (Korea) (822) 3705 8644 Linda Huang (Taiwan) (8862) 2734 7521

Banks and Non-Bank Financials

Ismael Pili (Asia)	(813) 3512 5979
Nick Lord (Asia)	(852) 3922 4774
Sarah Wu (China)	(852) 3922 4068
Jemmy Huang (Hong Kong, Taiwan)	(8862) 2734 7530
Mudit Painuly (India)	(9122) 6653 3044
Suresh Ganapathy (India)	(9122) 6653 3042
Ferry Wong (Indonesia)	(6221) 515 7335
Chan Hwang (Korea)	(822) 3705 8643
Michael Na (Korea)	(822) 2095 7222
Chin Seng Tay (Malaysia, S'pore)	(65) 6231 2837
Nadine Javellana (Philippines)	(632) 857 0890
Matthew Smith (Taiwan)	(8862) 2734 7514
Alastair Macdonald (Thailand)	(662) 694 7741

Chemicals/Textiles

Christina Lee (Hong Kong)	(852) 3922 3571
Jal Irani (India)	(9122) 6653 3040
Shawn Park (Korea)	(822) 3705 8669
Sunaina Dhanuka (Malaysia)	(603) 2059 8993

Conglomerates

Gary Pinge (Asia)	(852) 3922 3557
Leah Jiang (China)	(8621) 2412 9020
Consumer	

Gary Pinge (Asia) Jessie Qian (China, Hong Kong) (852) 3922 3557 (852) 3922 3568 Toby Williams (Japan) (813) 3512 7392 HongSuk Na (Korea) Edward Ong (Malaysia) Alex Pomento (Philippines) (822) 3705 8678 (603) 2059 8982 (632) 857 0899 Linda Huang (Taiwan) (8862) 2734 7521

Emerging Leaders

Jake Lynch (Asia)	(8621) 2412 9007
Minoru Tayama (Japan)	(813) 3512 6058
Robert Burghart (Japan)	(813) 3512 7853

Industrials

Inderjeetsingh Bhatia (India)	(9122) 6653 3166
Christopher Cintavey (Japan)	(813) 3512 7432
Janet Lewis (Japan)	(813) 3512 7475
Chang Han Joo (Korea)	(822) 3705 8511
Sunaina Dhanuka (Malaysia)	(603) 2059 8993
David Gambrill (Thailand)	(662) 694 7753

Insurance

Mark Kellock (Asia)	(852) 3922 3567
Makarim Salman (Japan)	(813) 3512 7421
Media	

Jessie Qian (China, Hong Kong)

hubham Majumder (India)	(9122) 6653 3049
eorge Hogan (Japan)	(813) 3512 7851
rem Jearajasingam (Malaysia)	(603) 2059 8989
lex Pomento (Philippines)	(632) 857 0899

Oil and Gas

Laban Yu (Asia)	(852) 3922 4691
Christina Lee (Hong Kong)	(852) 3922 3571
Jal Irani (India)	(9122) 6653 3040
Polina Diyachkina (Japan)	(813) 3512 7886
Shawn Park (Korea)	(822) 3705 8669
Edward Ong (Malaysia)	(603) 2059 8982
Sunaina Dhanuka (Malaysia)	(603) 2059 8993
Linda Huang (Taiwan)	(8862) 2734 7521
Trevor Buchinski (Thailand)	(662) 694 7829

Pharmaceuticals

Christina Lee (Hong Kong)	(852) 3922 3571
Abhishek Singhal (India)	(9122) 6653 3052
Naomi Kumagai (Japan)	(813) 3512 7474

Property

Callum Bramah (Asia)	(852) 3922 4731
Eva Lee (China, Hong Kong)	(852) 3922 3573
Hiroshi Okubo (Japan)	(813) 3512 7433
Chang Han Joo (Korea)	(822) 3705 8511
Tuck Yin Soong (Singapore)	(65) 6231 2838
Elaine Cheong (Singapore)	(65) 6231 2839
Corinne Jian (Taiwan)	(8862) 2734 7522
Patti Tomaitrichitr (Thailand)	(662) 694 7727

Resources / Metals and Mining

Andrew Dale (Asia)	(852) 3922 3587
YeeMan Chin (China)	(852) 3922 3562
Graeme Train (China)	(8621) 2412 9035
Christina Lee (Hong Kong)	(852) 3922 3571
Rakesh Arora (India)	(9122) 6653 3054
Adam Worthington (Indonesia)	(65) 6231 2981
Riaz Hyder (Indonesia)	(6221) 2598 8486
Polina Diyachkina (Japan)	(813) 3512 7886

Technology

Michael Bang (Asia)	(822) 3705 8659
Patrick Yau (Hong Kong)	(852) 3922 1264
Zona Chen (Hong Kong)	(852) 3922 3578
Nitin Mohta (India)	(9122) 6653 3050
Damian Thong (Japan)	(813) 3512 7877
David Gibson (Japan)	(813) 3512 7880
George Chang (Japan)	(813) 3512 7854
Michiko Kakiya (Japan)	(813) 3512 7868
Yukihiro Goto (Japan)	(813) 3512 5984
Daniel Kim (Korea)	(822) 3705 8641
Abraham Leu (Taiwan)	(8862) 2734 7511
Chia-Lin Lu (Taiwan)	(8862) 2734 7526
Daniel Chang (Taiwan)	(8862) 2734 7516
James Chiu (Taiwan)	(8862) 2734 7517
Jeffrey Su (Taiwan)	(8862) 2734 7512
Samson Yu (Taiwan)	(8862) 2734 7532

Telecoms

Shubham Majumder (Asia)	(9122) 6653 3049
Ramakrishna Maruvada (ASEAN)	(65) 6231 2842
Bin Liu (China)	(852) 3922 3634
Tim Smart (China)	(852) 3922 3565
Riaz Hyder (Indonesia)	(6221) 2598 8486
Nathan Ramler (Japan)	(813) 3512 7875
Prem Jearajasingam (Malaysia)	(603) 2059 8989

Transport & Infrastructure

Anderson Chow (Asia)	(852) 3922 4773
Jonathan Windham (Asia)	(852) 3922 5417
Wei Sim (China, Hong Kong)	(852) 3922 3598
Janet Lewis (Japan)	(813) 3512 7475
Chang Han Joo (Korea)	(822) 3705 8511
ES Kwak (Korea)	(822) 3705 8644
Sunaina Dhanuka (Malaysia)	(603) 2059 8993

Utilities

Adam Worthington (Asia)	(65) 6231 2981
Carol Cao (China, Hong Kong)	(852) 3922 4075
Jeff Evans (India)	(9122) 3356 3053
Prem Jearajasingam (Malaysia)	(603) 2059 8989
Alex Pomento (Philippines)	(632) 857 0899

Commodities

Jim Lennon	(4420) 3037 4271
Max Layton	(4420) 3037 4273
Duncan Hobbs	(4420) 3037 4497
Bonnie Liu	(8621) 2412 9008
Graeme Train	(8621) 2412 9035
Rakesh Arora	(9122) 6653 3054

Data Services

Andrea Clohessy (Asia)	(852) 3922 4076
Eric Yeuna	(852) 3922 4077

Economics

Richard Jerram (Asia)	(813) 3512 7855
Rajeev Malik (ASEAN, India)	(65) 6231 2841
Richard Gibbs (Australia)	(612) 8232 3935
Paul Cavey (China)	(852) 3922 3570

Quantitative

(2) 3922 3582
(2) 3922 4735
2) 8232 6539
3) 3512 7876

Strategy/Country

Michael Kurtz (Asia)	(8621) 2412 9002
Daniel McCormack (Asia)	(852) 3922 4073
Mark Matthews (Asia)	(852) 3922 3585
Rakesh Arora (India)	(9122) 6653 3054
Ferry Wong (Indonesia)	(6221) 515 7335
David Gibson (Japan)	(813) 3512 7880
Peter Eadon-Clarke (Japan)	(813) 3512 7850
Chan Hwang (Korea)	(822) 3705 8643
Prem Jearajasingam (Malaysia)	(603) 2059 8989
Edward Ong (Malaysia)	(603) 2059 8982
Alex Pomento (Philippines)	(632) 857 0899
Patrick Yau (Singapore)	(65) 6231 2835
Daniel Chang (Taiwan)	(8862) 2734 7516
Alastair Macdonald (Thailand)	(662) 694 7741

Find our research at

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

Bloomberg: MAC GO

Factset: http://www.factset.com/home.aspx CapitalIQ

www.capitaliq.com TheMarkets.com www.themarkets.com Email macresearch@macquarie.com for access

Sales

Regional Heads of Sales

Regional fleaus of Sales	
Chris Gray (ASEAN)	(65) 6231 2888
Justin Crawford (Asia)	(852) 3922 2065
Peter Slater (Boston)	(1 617) 598 2502
Jeffrey Shiu (China & Hong Kong)	(852) 3922 2061
Thomas Renz (Geneva)	(41) 22 818 7712
Andrew Mouat (India)	(9122) 6653 3200
Stanley Dunda (Indonesia)	(6221) 515 1555
Kenneth Yap (Indonesia)	(6221) 515 1555
JJ Kim (Korea)	(822) 3705 8799
Jason Lee (Malaysia)	(603) 2059 8888
Gino C Rojas (Philippines)	(632) 857 0761
Greg Norton-Kidd (New York)	(1 212) 231 2527
Luke Sullivan (New York)	(1 212) 231 2507
Scot Mackie (New York)	(1 212) 231 2848

Regional Heads of Sales cont'd

Sheila Schroeder (San Francisco)	(1 415) 762 5001
Angus Kent (Thailand)	(662) 694 7601
Michael Newman (Tokyo)	(813) 3512 7920
Charles Nelson (UK/Europe)	(44) 20 3037 4832
Rob Fabbro (UK/Europe)	(44) 20 3037 4865
Nick Ainsworth (Generalist)	(852) 3922 2010

Sales Trading

Adam Zaki (Asia)	(852) 3922 2002
Mike Keen (Europe)	(44) 20 3037 4905
Yat Quan Tan (Hong Kong)	(852) 3922 2028
Stanley Dunda (Indonesia)	(6221) 515 1555
Mario Argyrides (Korea)	(822) 3705 8610
Edward Robinson (London)	(44) 20 3037 4902

Sales Trading cont'd

Chris Reale (New York)	(1 212) 231 2616
Michael Santos (Philippines)	(632) 857 0813
Matthew Ryan (Singapore)	(65) 6231 2888
Isaac Huang (Taiwan)	(8862) 2734 7582
Dominic Shore (Thailand)	(662) 694 7707
Phil Sellaroli (Tokyo)	(813) 3512 7837

Alternative Strategies

Convertibles - Roland Sharman	(852) 3922 2095
Depository Receipts - Robert Ansell	(852)3922 2094
Derivatives - Wayne Edelist	(852) 3922 2134
Futures - Tim Smith	(852) 3922 2113
Structured Products - Andrew Terlich	(852) 3922 2013