



Macquarie Research

EQUITIES

600132 CH		Not rated
Stock price as of 16/11/20	26.52	
GICS sector	Cons	sumer staples
Market cap	RMBm	12,835
Avg Value Traded (3m)	RMBm	51.1
12m high/low	RMB	34.00/18.25
PER FY19	Х	26.5
P/BV FY 19	Х	9.3

Historical financials

YE Dec (US\$m)	2015A	2016A	2017A
Revenue	3,324	3,196	3,176
% growth	4.9	-3.8	-0.6
EBITDA	140	389	519
% growth	-56.9	178.4	33.6
EPS	-14.00	37.00	68.00
% growth	na	na	82.0
EBIT Margin	-2.1	6.7	11.3

Source: Company data, FactSet, November 2018

Share price performance vs. CSI 300



*Relative to the market. Source: FactSet. November 2018

Share Price Driver

Thematic
Growth
Value
Event

Source: Macquarie Research, November 2018

Analysts

Macquarie Capital Limited



Linda Huang, CFA +852 3922 4068 linda.huang@macquarie.com

Cici Yu +86 21 2412 9078 cici.yu@macquarie.com

China

MacVisit: Chongqing Brewery Gaining market share in Sichuan

Key points

- Mgmt believes volumes are growing faster than its initial guidance, and that premiumisation is on track.
- The company says it is gaining market share in Sichuan on leverage of high-end products.
- It is optimizing SKUs and bottle types to offset raw material price headwinds.

Event

We recently visited Chongqing Brewery's headquarters and held an investor
meeting with management. During the meeting, investors focused on its
product mix upgrade trend and market expansion in Sichuan. They also
followed up on Carlsberg China's asset injection plan, despite limited visibility
currently. The company's full year guidance of Rmb3.06bn net sales after tax
and 923k tons sales volume are well on track YTD, according to mgmt.

Impact

- Volume increase above guidance, premiumisation on track. The company's full-year guidance indicated 5% YoY sales growth and a 4% YoY volume increase. In 9M18, the company achieved 7% sales growth and a 5% volume increase, thanks to teen sales growth in both Sichuan and Hunan, while China beer industry output recorded only 0.3% growth in 9M18. Premiumisation was the main driver of 2% ASP growth, as the company did not raise prices of its main products at the beginning of this year.
- Gaining market share in Sichuan. To differentiate itself from the competitors, the company is building a high-end brand image in Sichuan by leveraging its international brand products: Tuborg at Rmb8-10/bottle and Carlsberg at Rmb12/bottle. With 135k tons actual capacity at two Sichuan plants (Chengdu and Yibin), the company has expanded its 'big city' strategy to eight more cities in the province this year. As a result, its sales in Sichuan grew 12.2% YoY in 9M18. Excluding contract brewing, sales increased by 4% YoY, driven by 6% volume growth. The company believes Sichuan's industry growth rate should not be substantially different from the 0.3% national wide growth and thus it is gaining market share in this province.
- Optimizing SKUs and bottle types to offset raw material price headwinds. The company launched 'Project Brave' in 2013 post Carlsberg's acquisition. It gradually streamlined SKUs to less than 100 from 500+ in 2013 and reduced bottle types to 20 from 86. It targets to further reduce bottle types to only four in 2020, by improving production efficiency and taking advantage of procurement price, thus smoothing gross margin amid raw material price headwinds. Its 9M18 gross margin expanded 0.7ppt compared with the 3.2ppt drop in Tsingtao's (168 HK, HK\$32.00, Neutral, TP: HK\$30.40) gross margin.

Financials, valuations, and risks

- Chongqing Brewery reported 9M18 revenue of Rmb2,924m, up 9% YoY, with net profit up 22% YoY to Rmb385m. 3Q18 revenue increased 6% to Rmb1,160m, with net profit increasing 13% to Rmb175m.
- The stock is trading at 27x FY19E PER, compared with the average 31x FY19E PER for domestic peers and 16x FY19E PER for global peers, all based on Bloomberg consensus.

Ownership

Major shareholders as at end-FY17:

- Carlsberg Hong Kong 42.54%
- Carlsberg Chongging 17.46% (Carlsberg owns 60% in total)
- Gaoguan Investment 3.45%
- Central Huijin Investment 2.37%
- Goldman Sachs & Co. LLC 2.08%
- Bill & Melinda Gates Foundation Trust 1.74%

Balance sheet data and refinancing (as at end-FY17)

- Cash and bank balance of Rmb688.8m
- Fixed assets: Rmb1332.9m
- · No short-term or long-term debt
- Net cash/equity ratio of 59.2%

Latest annual results highlights (FY17)

- FY17 revenue decreased 0.6% YoY to Rmb3,176m.
- Gross profit decreased 0.5% to Rmb1,249m, with GPM remaining flattish at 39.3%.
- Operating profit increased 65.6% YoY to Rmb345m, with OPM increasing 3.9ppt to 10.9%.
- Net profit attributed to shareholders grew 82% YoY to Rmb329m, with net profit margin expanding 4.0ppt to 9.7%.
- Dividend in FY17 was Rmb0.8/sh, indicating a dividend payout ratio at 117.5%.

History and corporate governance

- 1958: built up the first of the company's breweries, one of the top 10 breweries in China
- 1993: Chongqing Brewery LLC established
- 1997: listed on Shanghai Stock Exchange
- 2008: Carlsberg brought a 17.46% stake
- 2010: Carlsberg further acquired a 12.25% stake
- 2013: Carlsberg became the majority shareholder with a 60% stake

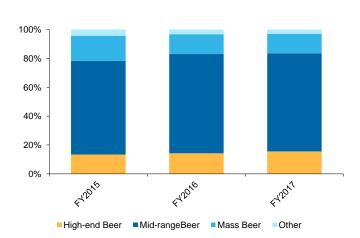
Management and Directors' background

- Mr.Jun Cai Ke, CEO of Carlsberg China and Chairman of Chongqing Brewery. Prior to Carlsberg, he was CEO of Heinz China and Heinz LongFong.
- Mr. Chin Wee Hua, CFO of Carlsberg China and Director of Chongqing Brewery. He used to be CFO of Alstom (Malaysia) and CFO of Wuhan Boiler Company.
- Mr. Song Chen, CEO of Chongqing Brewery since April 2015.
 Before joining the company, he had extensive experience in the FMCG industry and worked for Heinz and P&G.
- Mr. Nian Li, CFO of Chongqing Brewery since 2015. He joined Carlsberg China in 2013 and was auditor manager in PwC before 2013.

Latest quarterly results highlights (3Q18)

- 3Q18 revenue increased 5.8% to Rmb1,160m.
- Gross profit grew 12.7% to Rmb508m, with GPM increasing 2.7ppt to 43.8%.
- Operating profit expanded 31.6% to Rmb88m, with OPM lifting 3.8ppt to 19.3%.
- Net profit rose 13.3% to Rmb76m, with net profit margin up 1.0ppt to 15.1%.

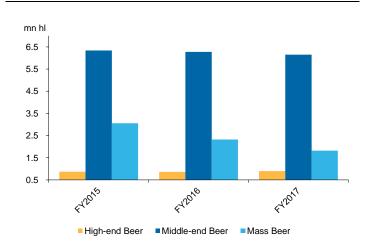
Fig 1 Revenue breakdown by product – percentage of highend and mid-range beer keeps rising



Note: Retail price of high-end above Rmb8/bottle, mid-range Rmb4–8/bottle, mass below Rmb4/bottle.

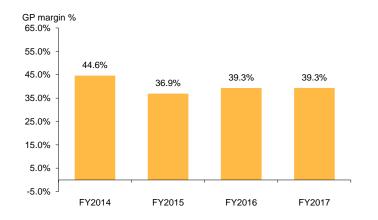
Source: Company data, November 2018

Fig 3 Sales volume by product – sales of mass products continue to fall



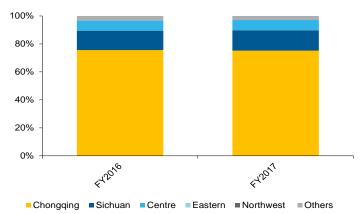
Source: Company data, November 2018

Fig 5 GP margin remained flattish in FY17



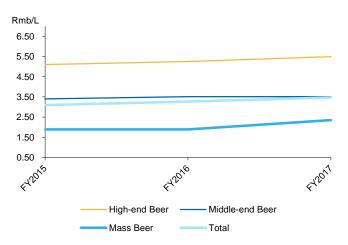
Source: Company data, November 2018

Fig 2 Revenue breakdown by region – Chongqing accounted for 75% of Chongqing Brewery's total revenue



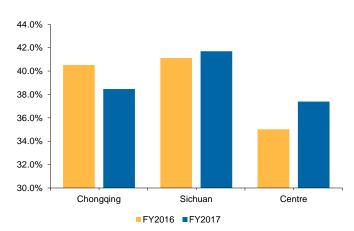
Source: Company data, November 2018

Fig 4 Average ex-factory price by product – high-end and mass rising, while mid-range remains flat



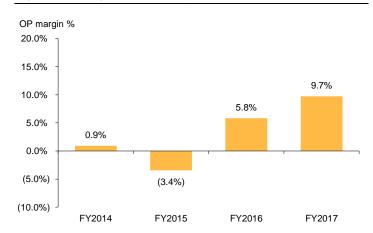
Source: Company data, November 2018

Fig 6 GP margin by region



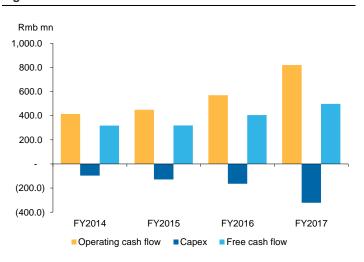
Source: Company data, November 2018

Fig 7 OP margin expanded by 390bps to 9.7% in FY17



Source: Company data, November 2018

Fig 8 FCF in FY17 rose 23% to Rmb497m



Source: Company data, November 2018

Chongqing Brewery(600132 CH, not rated)

		2H16A	1H17A	2H17A	1H18A	Annual Results		2014A	2015A	2016A	2017A
Payanus		1 500	1 500	1 505	4 764	Povonus	m-	2 460	2 224	2 400	2 470
Revenue	m	1,560	1,590	1,585	1,764	Revenue	m	3,169	3,324	3,196	3,176
Gross profit	m	615	637	612	695	Gross profit	m	1,413	1,227	1,256	1,249
Cost of goods sold	m	945	953	973	1,069	Cost of goods sold	m	1,755	2,096	1,940	1,926
EBITDA	m	188	286	233	348	EBITDA	m	324	140	389	519
Depreciation	m	78	73	76	81	Depreciation	m	208	196	162	149
Amortisation		7	6	7	6	Amortisation		18	14	14	13
EBIT	m	109	207	151	260	EBIT	m	98	(70)	213	358
Net interest income	m	(12)	(11)	(12)	(11)	Net interest income	m	(69)	(44)	(26)	(23)
Forex gain/loss	m	0	0	0	0	Forex gain/loss	m	0	0	0	0
Other pre-tax profit	m	(71)	3	8	1	Other pre-tax profit	m	(4)	3	(30)	11
Pre-Tax Profit	m	62	199	146	251	Pre-Tax Profit	m	25	(111)	157	345
Tax expenses	m	(17)	(27)	8	(16)	Tax expenses	m	(57)	(43)	(17)	(19)
Net profit	m	45	172	154	234	Net profit	m	(32)	(154)	140	326
Minority interest	m	(38)	10	(14)	24	Minority interest	m	(105)	(88)	(41)	(3)
William Willia		(00)		0		Willionty intoroot	•••	(100)	(00)	(,	(0)
Reported Earnings	m	83	162	168	210	Reported Earnings	m	73	(66)	181	329
Reported Earnings	m	83	162	168	210	Reported Earnings	m	73	(66)	181	329
EPS (rep)	¢	17	33 💆	35	43	EPS (rep)	¢	15	(14)	37	68
EPS (adj)	¢	17	33	35	43	EPS (adi)	¢	15	(14)	37	68
EPS grow th yoy (adj)	%	na	65	106	30	EPS grow th yoy (adj)	%	(54)	na	na	82
Li S grow in yoy (auj)	70	IIa	00	100	30	PE (rep)	76 Х	108	na	27	30
										27 27	30
EDITOA:	0/	40.0	40.0	447	40.7	PE (adj)	Х	108	na	21	30
EBITDA margin	%	12.0	18.0	14.7	19.7	T. () DDO	_	60.0	00.0	00.0	
EBIT margin	%	7.0	13.0	9.5	14.7	Total DPS	¢	20.0	20.0	80.0	80.0
Revenue grow th	%	na	-2.8	1.7	10.9	Payout ratio	%	133.3	na	216.2	117.6
EBIT grow th	%	na	100.7	37.6	25.7	Weighted average shares	m	484	484	484	484
		2014A	2015A	2016A	2017A	Cash Flow Analysis		2014A	2015A	2016A	2017A
Profit and Loss Ratios											
Revenue growth	%	(6.4)	4.9	(3.8)	(0.6)	Net income	m	(32)	(154)	140	326
EBITDA growth	%	(31.8)	(56.9)	178.4	33.6	Depreciation & Amortisation	m	226	210	176	162
EBIT Growth	%	(61.2)	(171.7)	(401.9)	68.2	Other non-cash adjustments	m	222	243	71	(61)
Gross profit margin	%	44.6	36.9	39.3	39.3	Changes in non-cash capital		(2)	149	183	394
EBITDA margin	%	10.2	4.2	12.2	16.4	Operating cash flow	m	414	448	569	820
EBIT margin	%	3.1	(2.1)	6.7	11.3	Acquisations	m	0	0	142	66
			. ,			•					
Net profit margin	%	(1.0)	(4.6)	4.4	10.3	Capex	m	(97)	(129)	(165)	(323)
Payout ratio	%	133.3	na	216.2	117.6	Asset sales	m	14	60	6	5
						Other	m	3	(32)	(54)	258
Balance Sheet Ratios						Investing cash flow	m	(79)	(101)	(71)	6
								· · /	(,	()	
ROE	%	5	(5)	15	28	Dividends	m	(163)	(130)	(117)	(397)
ROE ROA	% %	5 (1)	(5) (4)	15 4	28 9	Dividends Equity raised	m m		. ,		0
								(163)	(130)	(117)	
ROA	%	(1)	(4)	4	9	Equity raised	m	(163) 0	(130) 0	(117)	0
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other	m m	(163) 0 (383) 0	(130) 0 (123) 0	(117) 0 (623) 291	0 (7) (2)
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow	m m m m	(163) 0 (383) 0 (547)	(130) 0 (123) 0 (253)	(117) 0 (623) 291 (449)	0 (7) (2) (405)
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex	m m m m	(163) 0 (383) 0 (547) 0	(130) 0 (123) 0 (253)	(117) 0 (623) 291 (449) 0	0 (7) (2) (405) 0
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt	m m m m m	(163) 0 (383) 0 (547) 0 (212)	(130) 0 (123) 0 (253) 0 95	(117) 0 (623) 291 (449) 0 49	0 (7) (2) (405) 0 421
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex	m m m m	(163) 0 (383) 0 (547) 0	(130) 0 (123) 0 (253)	(117) 0 (623) 291 (449) 0	0 (7) (2) (405) 0
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A	(130) 0 (123) 0 (253) 0 95 319 2015A	(117) 0 (623) 291 (449) 0 49 404	0 (7) (2) (405) 0 421 497 2017A
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A	(130) 0 (123) 0 (253) 0 95 319 2015A	(117) 0 (623) 291 (449) 0 49 404 2016A	0 (7) (2) (405) 0 421 497 2017A
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A	(130) 0 (123) 0 (253) 0 95 319 2015A	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51	0 (7) (2) (405) 0 421 497 2017A
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A	(130) 0 (123) 0 (253) 0 95 319 2015A	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826	0 (7) (2) (405) 0 421 497 2017A 689 27 631
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A	(130) 0 (123) 0 (253) 0 95 319 2015A	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51	0 (7) (2) (405) 0 421 497 2017A
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826	0 (7) (2) (405) 0 421 497 2017A 689 27 631
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Total assets	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Total assets Payables	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Total assets Payables Short term debt	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608 F 753	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 630	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Total assets Payables Short term debt Long term debt	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 1,159 0 1,747 498 356 3,925 1,608 753 0	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 630 0	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Total assets Payables Short term debt Long term debt Other liabilities	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608 F 753 0 145	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 630 0 194	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7 0 467	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0 484
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Payables Short term debt Long term debt Other liabilities Total liabilities	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608 753 0 145 2,506	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 630 0 194 2,502	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7 0 467 2,123	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0 484 2,341
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Payables Short term debt Long term debt Other liabilities Total liabilities Share capital	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608 753 0 145 2,506 484	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 630 0 194 2,502 484	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7 0 467 2,123 484	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0 484 2,341 484
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Payables Short term debt Long term debt Other liabilities Total liabilities	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608 753 0 145 2,506 484 242	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 F 630 0 194 2,502 484 242	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7 0 467 2,123 484 242	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0 484 2,341 484 242
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Payables Short term debt Long term debt Other liabilities Total liabilities Share capital	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608 753 0 145 2,506 484	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 630 0 194 2,502 484	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7 0 467 2,123 484	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0 484 2,341 484
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Total assets Payables Short term debt Long term debt Other liabilities Total liabilities Share capital Surplus reserves	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608 753 0 145 2,506 484 242	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 F 630 0 194 2,502 484 242	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7 0 467 2,123 484 242	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0 484 2,341 484 242
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Total assets Payables Short term debt Long term debt Other liabilities Total liabilities Share capital Surplus reserves Undistributed profits	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608 753 0 145 2,506 484 242 588	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 F 630 0 194 2,502 484 242 425	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7 0 467 2,123 484 242 509	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0 484 2,341 484 242 451
ROA	%	(1)	(4)	4	9	Equity raised Debt movements Other Financing cash flow Forex Net change in cash/debt Free cash flow Balance Sheet Cash Receivables Inventories Investments Fixed asset Intangible asset Other assets Payables Short term debt Long term debt Other liabilities Total liabilities Share capital Surplus reserves Undistributed profits Other	m m m m m	(163) 0 (383) 0 (547) 0 (212) 317 2014A 124 40 1,159 0 1,747 498 356 3,925 1,608 753 0 145 2,506 484 242 588 106	(130) 0 (123) 0 (253) 0 95 319 2015A 219 60 1,075 38 1,479 463 388 3,721 1,678 F 630 0 194 2,502 484 242 425 68	(117) 0 (623) 291 (449) 0 49 404 2016A 268 51 826 100 1,115 364 642 3,366 1,650 7 0 467 2,123 484 242 509 7	0 (7) (2) (405) 0 421 497 2017A 689 27 631 0 1,333 309 518 3,506 1,857 0 484 2,341 484 242 451 (12)

All figures in CNY unless noted. Source: Company data, Wind, Bloomberg, November 2018

20 November 2018 5

Important disclosures:

Recommendation definitions

Macquarie - Australia/New Zealand

Outperform – return >3% in excess of benchmark return Neutral – return within 3% of benchmark return Underperform – return >3% below benchmark return

Benchmark return is determined by long term nominal GDP growth plus 12 month forward market dividend yield, which is currently around 9%.

Macquarie - Asia/Europe

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

Mazi Macquarie - 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 return

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

Δ11/N7

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 Asia/Australian/NZ/Canada stocks only

Recommendations - 12 months

Note: Quant recommendations may differ from Fundamental Analyst recommendations

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

Recommendation proportions - For quarter ending 30 September 2018

	, (O, I L	, .o.u		00,1	٠,٠	_0
Outperform	51.56%	59.51%	45.05%	46.88%	67.86%	46.70%
Neutral	33.20%	28.92%	37.36%	47.70%	25.00%	42.73%
Underperform	15.23%	11.57%	17.58%	5.42%	7.14%	10.57%

(for global coverage by Macquarie, 3.70% of stocks followed are investment banking clients) (for global coverage by Macquarie, 2.04% of stocks followed are investment banking clients) (for global coverage by Macquarie, 0.47% of stocks followed are investment banking clients)

Reporting Standards).

168 HK vs HSI, & rec history



(all figures in HKD currency unless noted)

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, November 2018

12-month target price methodology

168 HK: HK\$30.40 based on a PER methodology

Company-specific disclosures:

168 HK: Macquarie Group Limited together with its affiliates beneficially owns 1% or more of the equity securities of Tsingtao Brewery Co Ltd. Important disclosure information regarding the subject companies covered in this report is available at www.macquarie.com/research/disclosures.

Target price risk disclosures:

168 HK: Any inability to compete successfully in their markets may harm the business. This could be a result of many factors which may include geographic mix and introduction of improved products or service offerings by competitors. The results of operations may be materially affected by global economic conditions generally, including conditions in financial markets. The company is exposed to market risks, such as changes in interest rates, foreign exchange rates and input prices. From time to time, the company will enter into transactions, including transactions in derivative instruments, to manage certain of these exposures.

Analyst certification:

We hereby certify that all of the views expressed in this report accurately reflect our personal views about the subject company or companies and its or their securities. We also certify that no part of our compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed in this report. The Analysts responsible for preparing this report receive compensation from Macquarie that is based upon various factors including Macquarie Group Ltd total revenues, a portion of which are generated by Macquarie Group's Investment Banking activities.

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 Limited, Taiwan Securities Branch; Macquarie Capital Securities (Singapore) Pte Ltd; Macquarie Securities (NZ) Ltd; Macquarie Securities (RF) (Pty) Ltd; Macquarie Capital Securities (India) Pvt Ltd; Macquarie Capital Securities (Malaysia) Sdn Bhd; Macquarie Securities Korea Limited 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

MacQuarie Research MacVisit: Chongqing Brewery

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 FCA 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. Macquarie salespeople, traders and other professionals may provide oral or written market commentary or trading strategies to our clients that reflect opinions which are contrary to the opinions expressed in this research. Macquarie Research produces a variety of research products including, but not limited to, fundamental analysis, macro-economic analysis, quantitative analysis, and trade ideas. Recommendations contained in one type of research product may differ from recommendations contained in other types of research, whether as a result of differing time horizons, methodologies, or otherwise. 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. The date and timestamp for above share price and market cap is the closed price of the price date. #CLOSE is the final price at which the security is traded in the relevant exchange on the date indicated. Members of the Macro Strategy team are Sales & Trading personnel who provide desk commentary that is not a product of the Macquarie Research department or subject to FINRA Rule 2241 or any other regulation regarding independence in the provision of equity research.

Country-specific disclaimers: Australia: In Australia, research is issued and distributed by Macquarie Securities (Australia) Ltd (AFSL No. 238947), a participating organization of the Australian Securities Exchange. Macquarie Securities (Australia) Limited staff involved with the preparation of research have regular interaction with companies they cover. Additionally, Macquarie Group Limited does and seeks to do business with companies covered by Macquarie Research. There are robust information barriers in place to protect the independence of Macquarie Research's product. However, recipients of Macquarie Research should be aware of this potential conflict of interest. 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 (i) member of the Investment Industry Regulatory Organization of Canada and the Canadian Investor Protection Fund, and (ii) participating organization of the Toronto Stock Exchange, TSX Venture Exchange & Montréal Exchange. This research is distributed in the United States, as third party research by Macquarie Capital Markets North America Ltd., which is a registered broker-dealer and member of Financial Industry Regulatory Authority and the Securities Investor Protection Corporation. Macquarie Capital Markets North America Ltd. accepts responsibility for the contents of reports issued by Macquarie Capital Markets Canada Ltd. in the United States and sent to US persons. Any US 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. This research is intended for distribution in the United States only to major Institutional Investors (as such term is defined in SEC 15a-6 and Section 15 of the Securities Exchange Act of 1934, as amended) and is not intended for the use of any person or entity that is not a major institutional investor. Research analysts of Macquarie Capital Markets Canada Ltd. are not registered/qualified as research analysts with FINRA. 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 Conduct Authority (No. 193905). Germany: In Germany, this research is issued and/or distributed by Macquarie Capital (Europe) Limited, Niederlassung Deutschland, which is authorised and regulated by the UK Financial Conduct Authority (No. 193905), and in Germany by BaFin. 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 Conduct Authority (No. 193905). Hong Kong & Mainland China: In Hong Kong, research is issued and distributed by Macquarie Capital Limited, which is licensed and regulated by the Securities and Futures Commission. In Mainland China, Macquarie Securities (Australia) Limited Shanghai Representative Office only engages in non-business operational activities excluding issuing and distributing research. Only non-A share research is distributed into Mainland China by Macquarie Capital Limited. Japan: In Japan, research is Issued and distributed by Macquarie Capital Securities (Japan) Limited, a member of the Tokyo Stock Exchange, Inc. and Osaka Exchange, Inc. (Financial Instruments Firm, Kanto Financial Bureau (kin-sho) No. 231, a member of Japan Securities Dealers Association). India: In India, research is issued and distributed by Macquarie Capital Securities (India) Pvt. Ltd. (CIN: U65920MH1995PTC090696), 92, Level 9, 2 North Avenue, Maker Maxity, Bandra Kurla Complex, Bandra (East), Mumbai – 400 051, India, which is a SEBI registered Research Analyst having registration no. INH000000545. **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**: In Taiwan, research is issued and distributed by Macquarie Capital Limited, Taiwan Securities 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. Nothing in this research shall be construed as a solicitation to buy or sell any security or product. The recipient of this report shall not engage in any activities which may give rise to potential co interest to the report. Research Associate(s) in this report who are registered as Clerks only assist in the preparation of research and are not engaged in writing the research. Macquarie may be in past one year or now being an Issuer of Structured Warrants on securities mentioned in this report. Thailand: In Thailand, research is produced, issued and distributed by Macquarie Securities (Thailand) Ltd. Macquarie Securities (Thailand) Ltd. is 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 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.thaiiod.com/en/publications.asp?type=4. South Korea: In South Korea, unless otherwise stated, research is prepared, issued and distributed by Macquarie Securities Korea Limited, which is regulated by the Financial Supervisory Services. Information on analysts in MSKL is disclosed at http://dis.kofia.or.kr/websquare/index.jsp?w2xPath=/wq/fundMgr/DISFundMgrAnalystStut.xml&divisionId=MDIS03002001000000&serviceId=SDIS03002 001000. South Africa: In South Africa, research is issued and distributed by Mazi Macquarie Securities (RF) (Pty) Ltd, 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, Mazi Macquarie Securities (RF) (Pty) Ltd 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. Information regarding futures is provided for reference purposes only and is not a solicitation for purchases or sales of futures. 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,

© Macquarie Group

NY 10019.

20 November 2018



Equities

Asia Research

Head of Equity Research

Jake Lynch (Asia - Head)	(852) 3922 3583
Hiroyuki Sakaida (Japan – Head)	(813) 3512 6695
Conrad Werner (ASEAN - Head)	(65) 6601 0182

Automobiles, Auto Parts

Janet Lewis (China, Japan) (813) 3512 7856 Allen Yuan (China) (8621) 2412 9009 James Hong (Korea) (822) 3705 8661 Amit Mishra (India) (9122) 6720 4084

Banks and Financials

Scott Russell (Asia) (852) 3922 3567 Dexter Hsu (China, Taiwan) (8862) 2734 7530 Keisuke Moriyama (Japan) (813) 3512 7476 Chan Hwang (Korea) (822) 3705 8643 Suresh Ganapathy (India) (9122) 6720 4078 Jayden Vantarakis (Indonesia) (6221) 2598 8310 Anand Pathmakanthan (Malaysia) (603) 2059 8833 Gilbert Lopez (Philippines) (632) 857 0892 Ken Ang (Singapore) Peach Patharavanakul (Thailand) (65) 6601 0836 (662) 694 7753

Basic Materials, Commodities

David Ching (China, Hong Kong)	(852) 3922 1823
Harunobu Goroh (Japan)	(813) 3512 7886
Yasuhiro Nakada (Japan)	(813) 3512 7862
Anna Park (Korea)	(822) 3705 8669
Sumangal Nevatia (India)	(9122) 6720 4093
Jayden Vantarakis (Indonesia)	(6221) 2598 8310
Farrah Aglima (Malaysia)	(603) 2059 8987

Conglomerates

David Ng (China, Hong Kong)	(852) 3922 1291
Gilbert Lopez (Philippines)	(632) 857 0892
Conrad Werner (Singapore)	(65) 6601 0182

Consumer, Gaming

(852) 3922 4068 Linda Huang (Asia) (852) 3922 1130 (852) 3922 3581 Zibo Chen (China, Hong Kong) Terence Chang (China, Hong Kong) (852) 3922 3768 Sunny Chow (China, Hong Kong) Leon Rapp (Japan) (813) 3512 7879 Kwang Cho (Korea) (822) 3705 4953 Amit Sinha (India) (9122) 6720 4085 Robert Pranata (Indonesia) (6221) 2598 8366 Richardo Walujo (Indonesia) (6221) 2598 8369 Denise Soon (Malaysia) (603) 2059 8845 Karisa Magpayo (Philippines) (632) 857 0899 Chalinee Congmuang (Thailand) (662) 694 7993

Emerging Leaders

Jake Lynch (Asia) (852) 3922 3583 Kwang Cho (Korea) (822) 3705 4953 Corinne Jian (Greater China) (8862) 2734 7522 Conrad Werner (ASEAN) (65) 6601 0182 Bo Denworalak (Thailand) (662) 694 7774

Infrastructure, Industrials, Transportation

Patrick Dai (China) (8621) 2412 9082 (852) 3922 4749 Eric Zong (China, Hong Kong) Kunio Sakaida (Japan) (813) 3512 7873 (822) 3705 8661 James Hong (Korea) Corinne Jian (Taiwan) (8862) 2734 7522 Inderjeetsingh Bhatia (India) Azita Nazrene (ASEAN) (9122) 6720 4087 (65) 6601 0560

Internet, Media and Software

Wendy Huang (Asia) (852) 3922 3378 Marcus Yang (Greater China) (8862) 2734 7532 John Wang (China, Hong Kong) (852) 3922 3578 Ellie Jiang (China, Hong Kong) (852) 3922 4110 Frank Chen (China, Hong Kong) (852) 3922 1433 (9122) 6720 4134 Alankar Garude (India)

Oil. Gas and Petrochemicals

Aditya Suresh (Asia)	(852) 3922 1265
Anna Park (Asia)	(822) 3705 8669
Yasuhiro Nakada (Japan)	(813) 3512 7862
Corinne Jian (Taiwan)	(8862) 2734 7522
Ben Shane Lim (Malaysia)	(603) 2059 8868
Yupapan Polpornprasert (Thailand)	(662) 694 7729

Pharmaceuticals and Healthcare

David Ng (China, Hong Kong)	(852) 3922 1291
Xiang Gao (China, Hong Kong)	(8621) 2412 9006
Corinne Jian (China)	(8862) 2734 7522
Alankar Garude (India)	(9122) 6720 4134
Richardo Walujo (Indonesia)	(6221) 259 88 369

Property, REIT

David Ng (China, Hong Kong)	(852) 3922 1291
Kelvin Tam (China)	(852) 3922 1181
Keisuke Moriyama (Japan)	(813) 3512 7476
Tomoyoshi Omuro (Japan)	(813) 3512 7474
Abhishek Bhandari (India)	(9122) 6720 4088
Richard Danusaputra (Indonesia)	(6221) 2598 8368
Aiman Mohamad (Malaysia)	(603) 2059 8986
Kervin Sisayan (Philippines)	(632) 857 0893
Bo Denworalak (Thailand)	(662) 694 7774

Technology

Damian Thong (Asia, Japan) (813) 3512 7877 Allen Chang (Greater China) (852) 3922 1136 Jeffrey Ohlweiler (Greater China) (8862) 2734 7512 Kaylin Tsai (Greater China) (8862) 2734 7523 Lynn Luo (Greater China) (8862) 2734 7534 Patrick Liao (Greater China) (8862) 2734 7515 (852) 3922 3766 Verena Jeng (Greater China) Jin Guo (Greater China) (8621) 2412 9054 Daniel Kim (Korea) (822) 3705 8641 (9122) 6720 4088 (603) 2059 8987 Abhishek Bhandari (India) Farrah Aqlima (Malaysia)

Telecoms

Allen Chang (Greater China) (852) 3922 1136 Prem Jearajasingam (ASEAN) (603) 2059 8989 Nathania Nurhalim (Indonesia) (6221) 2598 8365 Kervin Sisayan (Philippines) (632) 857 0893

Utilities, Renewables

Hirovuki Sakaida (Japan) Patrick Dai (China) Inderjeetsingh Bhatia (India) Karisa Magpayo (Philippines)

Strategy, Country

Viktor Shvets (Asia, Global) David Ng (China, Hong Kong) Hiroyuki Sakaida (Japan) Chan Hwang (Korea) Jeffrey Ohlweiler (Taiwan) Inderjeetsingh Bhatia (India) Conrad Werner (ASEAN, Singapore) Jayden Vantarakis (Indonesia) Anand Pathmakanthan (Malaysia) Gilbert Lopez (Philippines) Peach Patharayanakul (Thailand)

(813) 3512 6695

(8621) 2412 9082

(9122) 6720 4087

(632) 857 0899

Find our research at

Macquarie: www.macquarieresearch.com Thomson: www.thomson.com/financial Reuters www.knowledge.reuters.com Bloomberg: MAC GO

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

CapitallQ www.capitaliq.com Email macresearch@macquarie.com for access

Asia Sales

Regional Heads of Sales

Miki Edelman (Global) (1 212) 231 6121 Amelia Mehta (Asia) (65) 6601 0211 Alan Chen (Asia) (852) 3922 2019 Sandeep Bhatia (India) (9122) 6720 4101 (6221) 2598 8303 Tim Huang (Indonesia) Thomas Renz (Geneva) (41 22) 818 7712 Tomohiro Takahashi (Japan) (813) 3512 7823 John Jay Lee (Korea) (822) 3705 9988 Nik Hadi (Malaysia) (603) 2059 8888 Gino C Rojas (Philippines) (632) 857 0861

Regional Heads of Sales cont'd

Paul Colaco (San Francisco) (1 415) 762 5003 Eric Lin (Taiwan) (8862) 2734 7590 Angus Kent (Tháiland) (662) 694 7601 Mothlib Miah (UK/Europe) (44 20) 3037 4893 (44 20) 3037 4873 Christina Lee (US) Sales Trading

Mark Weekes (Asia) (852) 3922 2084 (6221) 515 1555 Stanley Dunda (Indonesia)

Sales Trading cont'd

Suhaida Samsudin (Malaysia) Michael Santos (Philippines) Chris Reale (New York) Marc Rosa (New York) Justin Morrison (Singapore) Brendan Rake (Thailand) Mike Keen (UK/Europe)

(603) 2059 8888 (632) 857 0813 (1 212) 231 2555 (1 212) 231 2555 (65) 6601 0288 (662) 694 7707 (44 20) 3037 4905