

## Singapore

**ADD** (no change)

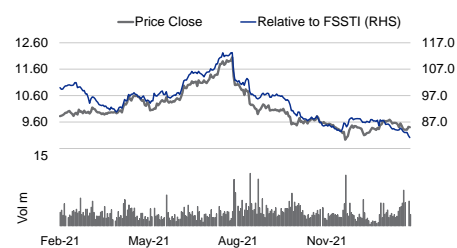
Consensus ratings\*: Buy 5 Hold 7 Sell 4

Current price:	S\$9.40
Target price:	S\$10.40
Previous target:	S\$10.40
Up/downside:	10.6%
CGS-CIMB / Consensus:	3.9%
Reuters:	SGXL.SI
Bloomberg:	SGX SP
Market cap:	US\$7,470m
	S\$10,046m
Average daily turnover:	US\$17.58m
	S\$23.87m
Current shares o/s:	1,071m
Free float:	71.7%

\*Source: Bloomberg

### Key changes in this note

➤ No change.



Source: Bloomberg

Price performance	1M	3M	12M
Absolute (%)	0.8	-2	-4.6
Relative (%)	-3.9	-5.5	-19.3

Major shareholders	% held
SEL Holdings	23.4
Tokyo Stock Exchange	5.0
Blackrock	3.8

### Analyst(s)



**Andrea CHOONG**

T (65) 6210 8672

E andrea.choong@cgs-cimb.com

# Singapore Exchange

## Steadying the ship

- 1HFY6/22 core net profit of S\$222m was in line with our/consensus estimates. Key drag was subdued treasury income and weaker cash equities.
- SGX's A50 volumes have sustained through the introduction of HKEX's competing product – a key positive. SB and BidFX contributions are growing.
- Reiterate Add. Sustained market volatility should support hedging activity and stronger derivatives volumes. Fed hikes are key to treasury income recovery.

### 1HFY6/22 FICC and derivatives gains offset by low treasury income

SGX reported 1HFY6/22 core net profit of S\$222m (adjusted for one-off remeasurement gain and writeback consideration for BidFX, +7% hoh, -3% yoy). This was in line with our/consensus forecasts and formed 49% of FY22F estimates. 1HFY6/22 revenue was flattish yoy as stronger performances from the fixed income, currencies and commodities (FICC) and equities derivatives segments were completely offset by weaker treasury income (due to the low interest rate environment) and softer cash equities trading volumes (7% yoy decline in total traded value to S\$150bn). EBITDA margin slid 3%pt yoy to 59% in 1HFY6/22 on the back of higher opex (largely staff-related) and as Scientific Beta (SB) and BidFX gain scale (lower margins vs. SGX group). Adjusting for SB, BidFX and treasury income, SGX's underlying EBITDA margin would instead be 1%pt lower yoy. SGX declared interim DPS of 8 Scts in 2QFY6/22, bringing 1HFY6/22 DPS to 16 Scts. Implementation of its scrip dividend scheme is put on hold.

### FICC upside to come from scaling up of SB, BidFX and MaxxTrader

The strength in FICC came on the back of stronger commodities and currency volumes (FX ADV +46% yoy to US\$57bn), and higher contributions from BidFX. Collectively, revenue from BidFX and SB rose c.20% yoy to S\$40m in 1HFY6/22. FICC now accounts for a larger c.22% of revenues in 1HFY6/22 (FY6/21: c.20%). The acquisition of MaxxTrader was completed in Jan 22; at full speed, this could raise FX ADV by c.20-25%.

### SGX's A50 volumes and open interest sustained

Equity derivatives gained from a higher average fee per contract of S\$1.50 in 1HFY6/22 (1HFY6/21: S\$1.27) due to a larger proportion of full-fee paying customers in China and a normalisation of its Taiwan index futures post-MSCI departure. SGX's average China A50 index futures volumes rose 16% yoy in 2QFY6/22 and open interest has sustained since the introduction of HKEX's competing product in Oct 21. We expect SGX's competitive advantage of deep liquidity to support A50 volumes (and a larger addressable market) going forward, but caution for a dip in market share as HKEX's product gains traction.

### Reiterate Add with TP of S\$10.40

We expect earnings upside to come from SB, BidFX and MaxxTrader as they gain scale. Market volatility should also bode well for SGX's derivatives segment. Incoming Fed rate hikes should also spur portfolio rotation volumes and stronger treasury income, albeit with a time lag. Our TP of S\$10.40 is pegged to 25x CY22F P/E, c.1 s.d. above 10-year mean.

Financial Summary	Jun-20A	Jun-21A	Jun-22F	Jun-23F	Jun-24F
Revenue (S\$m)	1,053	1,056	1,076	1,107	1,141
Operating EBITDA (S\$m)	655.7	625.2	591.6	601.3	613.0
Net Profit (S\$m)	471.8	445.4	448.5	458.2	468.8
Core EPS (S\$)	0.45	0.42	0.41	0.42	0.43
Core EPS Growth	21.9%	(6.2%)	(1.1%)	2.2%	2.3%
FD Core P/E (x)	21.10	22.50	22.58	22.26	21.76
DPS (S\$)	0.31	0.32	0.32	0.33	0.33
Dividend Yield	3.24%	3.40%	3.40%	3.46%	3.46%
EV/EBITDA (x)	14.32	15.07	16.06	15.68	15.25
P/FCFE (x)	16.52	19.67	23.12	22.40	21.83
Net Gearing	(48.3%)	(42.6%)	(44.1%)	(45.8%)	(47.7%)
P/BV (x)	8.07	7.37	6.86	6.41	5.97
ROE	40.8%	34.0%	31.2%	29.8%	28.4%
% Change In Core EPS Estimates			0%	0%	0%
CGS-CIMB/Consensus EPS (x)			1.00	0.94	0.91

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS

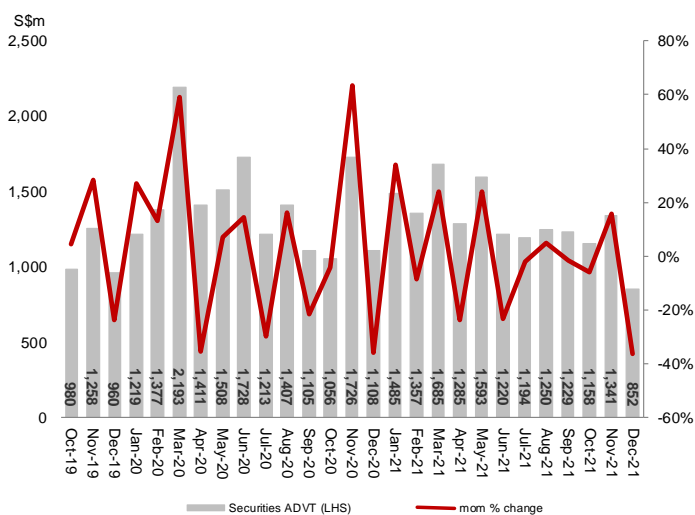
**Figure 1: Results table**

**Results forecasts**

FYE Jun (S\$m)	1H22	2H21	yoy % chg	1H21	hoh % chg	FY22 Cum	FY21 Cum	yoy % chg	Prev. FY22F	Comments
Revenue	521.6	535.2	(2.5)	520.8	0.2	1,075.8	1,056.0	1.9	1,103.7	In line. Stronger FICC and equity derivatives revenue was offset by weaker treasury income and cash equity.
Operating costs	(215.6)	(231.4)	(6.8)	(199.3)	8.2	(484.2)	(430.7)	12.4	(456.1)	Above.
EBITDA	306.0	303.7	0.8	321.5	(4.8)	591.6	625.2	(5.4)	647.6	EBITDA margin was 3%pt lower yoy at 59%.
EBITDA margin (%)	58.7	56.8	-	61.7	-	55.0	59.2	(7.1)	58.7	
Deprn & amort.	(46.5)	(45.5)	2.1	(49.0)	(5.1)	(56.5)	(94.5)	(40.2)	(99.2)	
EBIT	259.5	258.2	0.5	272.6	(4.8)	535.1	530.7	0.8	548.3	
Interest & invt inc	5.3	(4.9)	209.2	17.8	(70.2)	12.0	12.1	(0.9)	12.9	Above.
Associates' contrib	(6.0)	(3.7)	61.4	(0.6)	950.3	(3.0)	(4.3)	-	(1.5)	
Exceptionals	-	(2.1)	-	-	-	-	(2.1)	-	-	
Pretax profit	263.2	248.9	5.7	287.6	(8.5)	544.1	536.5	1.4	559.8	In line.
Tax	(44.1)	(43.0)	2.6	(47.7)	(7.4)	(94.1)	(90.7)	3.8	(96.8)	
Tax rate (%)	16.8	17.3	-	16.6	-	17.3	16.9	2.3	17.3	
Minority interests	(0.3)	(0.2)	-	(0.2)	-	(1.5)	(0.4)	-	(1.5)	
Net profit	218.7	205.6	6.4	239.8	(8.8)	448.5	445.4	0.7	461.4	In line.
Core net profit	218.7	207.7	5.3	239.8	(8.8)	448.5	447.5	0.2	461.4	1HFY6/22 adjusted net profit of S\$222m accounted for c.50% of our/consensus full-year forecasts
Core EPS (cts)	20.4	19.1	6.8	22.4	(8.8)	41.3	41.8	(1.2)	23.7	

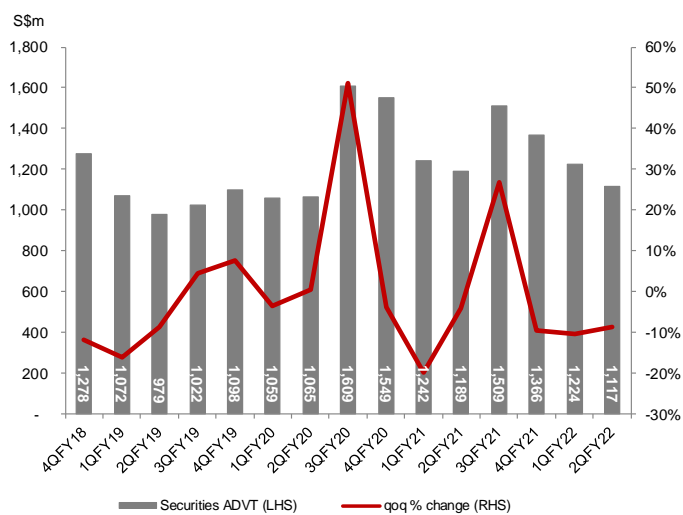
SOURCES: CGS-CIMB, COMPANY REPORTS

**Figure 2: Securities ADVT in Dec 21 was at its weakest since Dec 19 on the back of risk-off sentiment**



SOURCES: CGS-CIMB, SGX

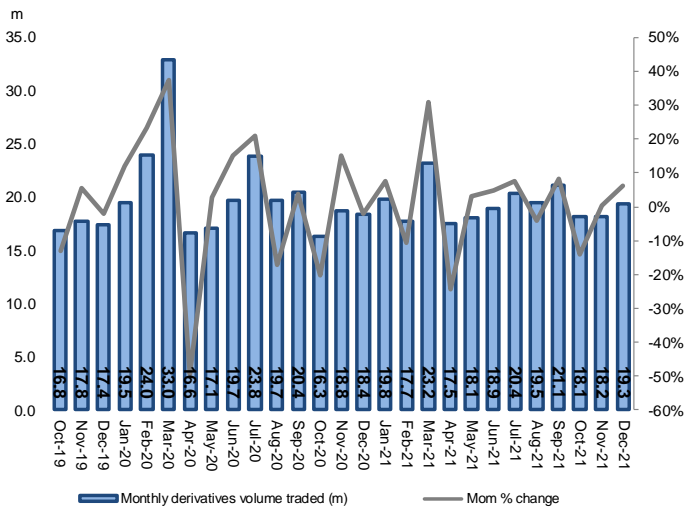
**Figure 3: 2QFY6/22 securities ADVT growth was flattish qoq at c.10%**



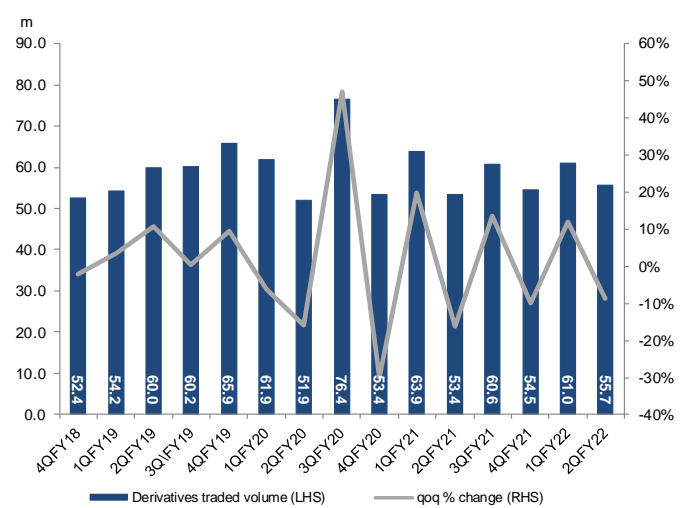
SOURCES: CGS-CIMB, COMPANY REPORTS

**Figure 4: Derivatives volumes were largely sustained by stronger FTSE A50, Nifty and SIMSCI volumes, offsetting weaker FTSE Taiwan and Nikkei 225 volumes**

**Figure 5: Derivative traded volume in 2QFY6/22 was stronger yoy**



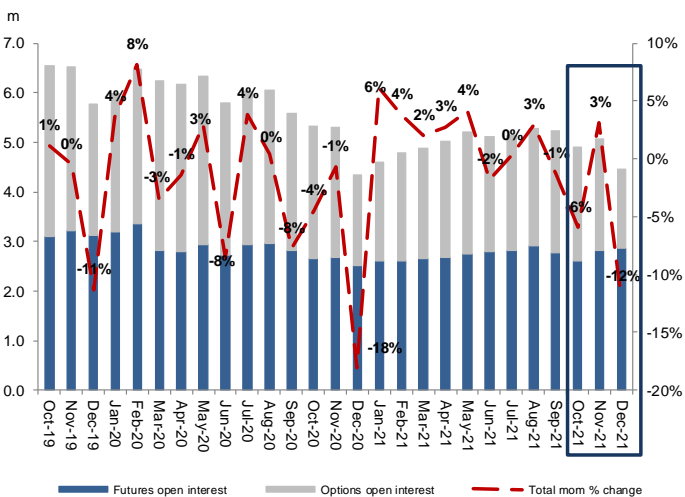
SOURCES: CGS-CIMB, SGX



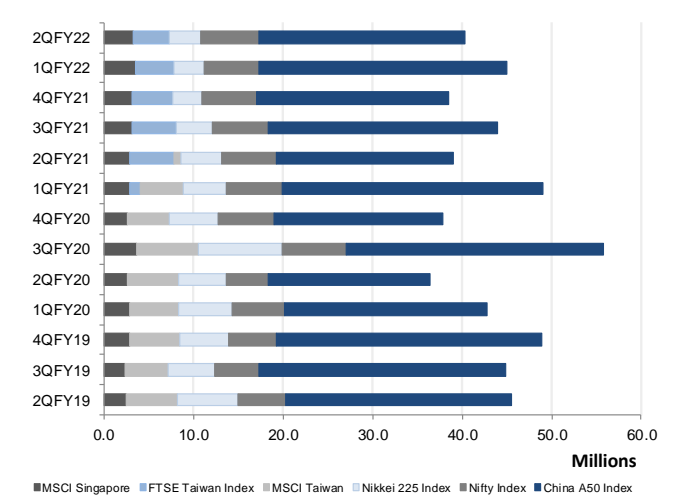
SOURCES: CGS-CIMB, COMPANY REPORTS

**Figure 6: Derivatives open interest was seasonally weaker in 2QFY6/22**

**Figure 7: China A50 volumes and open interest sustained well over 2QFY6/22, through the introduction of HKEX's competing product in Oct 21**



SOURCES: CGS-CIMB, SGX


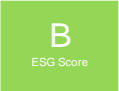

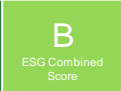





SOURCES: CGS-CIMB, COMPANY REPORTS

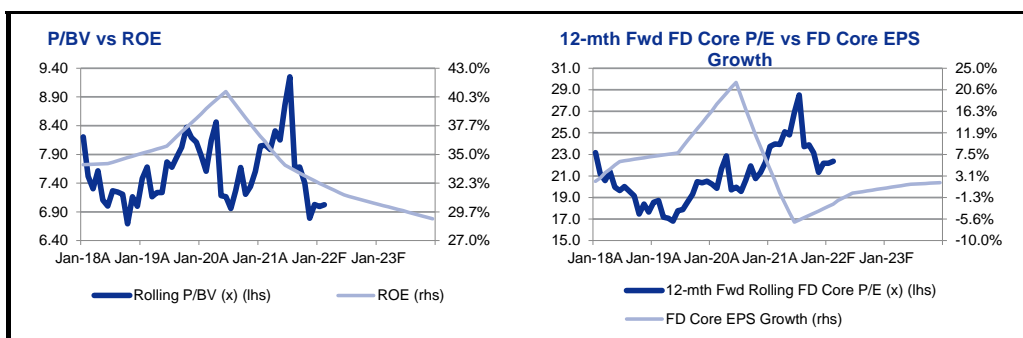
**Figure 8: Peers Comparison**

Company	Bloomberg Ticker	Recom.	Price (lci curr)	Target Price (lci curr)	Market Cap (US\$ m)	Core P/E (x) CY2021	Core P/E (x) CY2022	3-year EPS CAGR (%)	P/BV (x) CY2021	P/BV (x) CY2022	Recurring ROE (%) CY2021	Recurring ROE (%) CY2022	EV/EBITDA (x) CY2021	EV/EBITDA (x) CY2022	Dividend Yield (%) CY2021	Dividend Yield (%) CY2022
Singapore Exchange	SGX SP	Add	9.40	10.40	7,470	22.6	22.5	0.0%	7.1	6.6	32.7%	30.6%	15.5	15.8	3.4%	3.4%
Bursa Malaysia Bhd	BURSA MK	Hold	6.39	6.59	1,237	14.5	24.0	-12.5%	6.3	6.2	41.6%	26.1%	2.4	4.2	6.4%	3.7%
Hong Kong Exchanges & Clearing	388 HK	Add	472.0	557.4	72,052	37.4	32.0	18.4%	10.4	9.6	29.3%	31.2%	20.7	17.2	2.4%	2.8%
Nasdaq Inc	NDAQ US	Not rated	207.4	na	34,680	28.2	27.2	13.6%	5.4	5.0	19.3%	19.0%	21.4	20.6	1.0%	1.1%
Deutsche Boerse AG	DB1 GR	Not rated	137.9	na	29,667	20.6	19.0	10.4%	3.7	3.3	18.6%	18.0%	14.8	13.7	2.3%	2.5%
CME Group Inc	CME US	Not rated	232.0	na	83,370	34.9	31.9	10.6%	3.1	3.0	9.0%	9.4%	27.4	25.3	2.7%	3.0%
<b>Average</b>						<b>26.4</b>	<b>26.1</b>	<b>6.8%</b>	<b>6.0</b>	<b>5.6</b>	<b>25.1%</b>	<b>22.4%</b>	<b>17.0</b>	<b>16.1</b>	<b>3.0%</b>	<b>2.8%</b>

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS

Refinitiv ESG Scores	
	
     	
<p><b>ESG in a nutshell</b></p> <p>Singapore Exchange (SGX) was given a B as its combined ESG score by Refinitiv in 2021, primarily supported by a Governance pillar score of A (47% weightage of the combined ESG score). SGX outlined its sustainability initiatives under SGX FIRST (Future In Reshaping Sustainability Together), which encompasses its roadmap in integrating ESG into its multi-asset platform comprising equities, fixed income, indices and commodities. SGX is also part of a climate action group to establish a global exchange and marketplace for high-quality carbon credits, supporting organisations in their carbon reduction efforts.</p>	
<p><b>Keep your eye on</b></p> <p>SGX lacks robustness when it comes to its Environmental pillar score (C by Refinitiv), although we note that the company seeks to improve on this through initiatives to monitor, manage and offset its electricity usage and the establishment of climate-related products and services.</p> <p>We also keep watch on SGX's Social pillar which has a rating of B-. On this point, SGX has committed to certain people targets for FY6/21, such as the implementation of programmes for upgrading employee skills and transition assistance programmes, as well as achieving 35 training hours per employee per year in a bid to retain talent and to increase diversity in its workforce.</p>	<p><b>Implications</b></p> <p>We believe the progressive improvement of SGX's Environmental and Social pillars will be viewed favourably by market participants.</p> <p>Should SGX be able to achieve the targets it has committed to, it is likely that its Social pillar (which holds a c.39% weightage in the combined ESG score) will improve, raising its overall ESG rating. Although ESG ratings are currently not being factored into its valuations, an improvement in its Social pillar would not only lift its ESG score but also perception on the company, resulting in a re-rating, in our view. We believe SGX would thus be valued at a premium by investors that have a larger focus on sustainability.</p>
<p><b>ESG highlights</b></p> <p>SGX stands strong among its peers with regards to taking charge of governance-related concerns. This could be attributed to its disciplined management team that strives to make SGX a regulatory body-led example in ESG.</p>	<p><b>Implications</b></p> <p>We believe SGX is considered by market participants as an example of successful integration of sustainability-linked values into business processes. We believe progressive developments on this front will be viewed positively (in terms of valuations) as the demand for sustainable investing picks up.</p>
<p><b>Trends</b></p> <p>From FY16 to FY21, SGX maintained its combined ESG score of B, with minor fluctuations between grades for the Environmental, Social and Governance pillars, across the years.</p>	<p><b>Implications</b></p> <p>While we applaud SGX for its consistency in maintaining its overall ESG metrics, there is scope to further develop its strength in the Environmental and Social pillars. Steps taken towards managing these aspects will be the key to seeing overall improvements in its ESG ratings.</p> <p style="text-align: right; font-size: small;">SOURCES: CGS-CIMB RESEARCH, REFINITIV</p>

## BY THE NUMBERS



### Profit & Loss

(\$m)	Jun-20A	Jun-21A	Jun-22F	Jun-23F	Jun-24F
<b>Total Net Revenues</b>	<b>1,053</b>	<b>1,056</b>	<b>1,076</b>	<b>1,107</b>	<b>1,141</b>
<b>Gross Profit</b>	<b>1,053</b>	<b>1,056</b>	<b>1,076</b>	<b>1,107</b>	<b>1,141</b>
<b>Operating EBITDA</b>	<b>656</b>	<b>625</b>	<b>592</b>	<b>601</b>	<b>613</b>
Depreciation And Amortisation	(90)	(95)	(57)	(55)	(55)
<b>Operating EBIT</b>	<b>566</b>	<b>531</b>	<b>535</b>	<b>546</b>	<b>558</b>
Financial Income/(Expense)	13	13	12	13	15
Pretax Income/(Loss) from Assoc.	(2)	(4)	(3)	(3)	(3)
Non-Operating Income/(Expense)	0	(1)	0	0	0
<b>Profit Before Tax (pre-EI)</b>	<b>577</b>	<b>539</b>	<b>544</b>	<b>556</b>	<b>569</b>
Exceptional Items	(6)	(2)	0	0	0
<b>Pre-tax Profit</b>	<b>571</b>	<b>536</b>	<b>544</b>	<b>556</b>	<b>569</b>
Taxation	(99)	(91)	(94)	(96)	(98)
Exceptional Income - post-tax					
<b>Profit After Tax</b>	<b>472</b>	<b>446</b>	<b>450</b>	<b>460</b>	<b>471</b>
Minority Interests	(0)	(0)	(1)	(2)	(2)
Preferred Dividends	0	0	0	0	0
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
<b>Net Profit</b>	<b>472</b>	<b>445</b>	<b>448</b>	<b>458</b>	<b>469</b>
Recurring Net Profit	477	447	448	458	469
<b>Fully Diluted Recurring Net Profit</b>	<b>477</b>	<b>447</b>	<b>448</b>	<b>458</b>	<b>469</b>

### Cash Flow

(\$m)	Jun-20A	Jun-21A	Jun-22F	Jun-23F	Jun-24F
<b>EBITDA</b>	<b>655.7</b>	<b>625.2</b>	<b>591.6</b>	<b>601.3</b>	<b>613.0</b>
Cash Flow from Invt. & Assoc.					
Change In Working Capital	23.2	34.8	2.2	3.5	3.9
(Incr)/Decr in Total Provisions					
Other Non-Cash (Income)/Expense	10.7	10.7	10.7	10.7	10.7
Other Operating Cashflow	5.9	(25.3)	(2.5)	5.1	5.3
Net Interest (Paid)/Received	10.5	0.3	12.0	13.2	14.5
Tax Paid	(72.4)	(109.4)	(94.1)	(96.2)	(98.5)
<b>Cashflow From Operations</b>	<b>633.6</b>	<b>536.3</b>	<b>519.9</b>	<b>537.6</b>	<b>548.9</b>
Capex	(34.6)	(45.3)	(53.8)	(55.4)	(57.1)
Disposals Of FAs/subsidiaries	0.0	0.0	0.0	0.0	0.0
Acq. Of Subsidiaries/investments	(292.8)	(159.7)	(40.0)	(40.0)	(39.0)
Other Investing Cashflow	13.3	7.0	12.0	13.2	14.5
<b>Cash Flow From Investing</b>	<b>(314.1)</b>	<b>(198.0)</b>	<b>(81.8)</b>	<b>(82.2)</b>	<b>(81.5)</b>
Debt Raised/(repaid)	289.4	173.1	0.0	0.0	0.0
Proceeds From Issue Of Shares	(17.0)	(15.9)	0.0	0.0	0.0
Shares Repurchased	0.0	0.0	0.0	0.0	0.0
Dividends Paid	(321.2)	(342.5)	(347.2)	(352.7)	(352.7)
Preferred Dividends					
Other Financing Cashflow	(21.0)	(24.6)	0.0	0.0	0.0
<b>Cash Flow From Financing</b>	<b>(69.7)</b>	<b>(209.9)</b>	<b>(347.2)</b>	<b>(352.7)</b>	<b>(352.7)</b>
Total Cash Generated	249.8	128.4	90.8	102.7	114.6
<b>Free Cashflow To Equity</b>	<b>608.9</b>	<b>511.5</b>	<b>438.1</b>	<b>455.4</b>	<b>467.3</b>
<b>Free Cashflow To Firm</b>	<b>319.5</b>	<b>338.4</b>	<b>438.1</b>	<b>455.4</b>	<b>467.3</b>

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS

## BY THE NUMBERS... cont'd

### Balance Sheet

(\$m)	Jun-20A	Jun-21A	Jun-22F	Jun-23F	Jun-24F
Total Cash And Equivalents	907	1,060	1,125	1,201	1,288
Total Debtors	758	749	763	785	809
Inventories	0		40	80	119
Total Other Current Assets	2	0	0	0	0
<b>Total Current Assets</b>	<b>1,668</b>	<b>1,809</b>	<b>1,928</b>	<b>2,066</b>	<b>2,216</b>
Fixed Assets	243	146	143	143	145
Total Investments	72	51	48	45	42
Intangible Assets	0	0	0	0	0
Total Other Non-Current Assets	696	1,017	1,017	1,017	1,017
<b>Total Non-current Assets</b>	<b>1,011</b>	<b>1,213</b>	<b>1,208</b>	<b>1,205</b>	<b>1,203</b>
Short-term Debt	304	0	0	0	0
Current Portion of Long-Term Debt					
Total Creditors	809	868	884	910	938
Other Current Liabilities	126	118	112	115	117
<b>Total Current Liabilities</b>	<b>1,238</b>	<b>986</b>	<b>997</b>	<b>1,024</b>	<b>1,055</b>
Total Long-term Debt	0	468	468	468	468
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities	130	113	113	113	113
<b>Total Non-current Liabilities</b>	<b>130</b>	<b>581</b>	<b>581</b>	<b>581</b>	<b>581</b>
Total Provisions	62	66	66	66	66
<b>Total Liabilities</b>	<b>1,430</b>	<b>1,633</b>	<b>1,644</b>	<b>1,671</b>	<b>1,702</b>
Shareholders' Equity	1,245	1,385	1,486	1,592	1,708
Minority Interests	4	5	6	8	10
<b>Total Equity</b>	<b>1,249</b>	<b>1,390</b>	<b>1,492</b>	<b>1,600</b>	<b>1,718</b>

### Key Ratios

	Jun-20A	Jun-21A	Jun-22F	Jun-23F	Jun-24F
Revenue Growth	15.7%	0.3%	1.9%	2.9%	3.1%
Operating EBITDA Growth	25.2%	(4.6%)	(5.4%)	1.6%	1.9%
Operating EBITDA Margin	62.3%	59.2%	55.0%	54.3%	53.7%
Net Cash Per Share (S\$)	0.56	0.55	0.61	0.68	0.76
BVPS (S\$)	1.16	1.28	1.37	1.47	1.57
Gross Interest Cover	N/A	N/A	N/A	N/A	N/A
Effective Tax Rate	17.3%	16.9%	17.3%	17.3%	17.3%
Net Dividend Payout Ratio	68.2%	77.6%	77.4%	77.0%	75.2%
Accounts Receivables Days	285.7	260.5	256.4	255.2	255.6
Inventory Days	N/A	N/A	N/A	N/A	N/A
Accounts Payables Days	N/A	N/A	N/A	N/A	N/A
ROIC (%)	147%	69%	58%	56%	56%
ROCE (%)	42.2%	30.7%	27.7%	26.9%	26.1%
Return On Average Assets	19.3%	15.3%	14.2%	13.9%	13.6%

### Key Drivers

	Jun-20A	Jun-21A	Jun-22F	Jun-23F	Jun-24F
Equity SDAV (S\$m)	1,300.0	1,300.0	1,400.0	1,400.0	1,300.0
Total derivatives trading volumes (m)	243.7	255.8	268.6	282.1	296.2

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS



## DISCLAIMER

The content of this report (including the views and opinions expressed therein, and the information comprised therein) has been prepared by and belongs to CGS-CIMB. Reports relating to a specific geographical area are produced and distributed by the corresponding CGS-CIMB entity as listed in the table below.

This report is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation.

By accepting this report, the recipient hereof represents and warrants that he is entitled to receive such report in accordance with the restrictions set forth below and agrees to be bound by the limitations contained herein (including the "Restrictions on Distributions" set out below). Any failure to comply with these limitations may constitute a violation of law. This publication is being supplied to you strictly on the basis that it will remain confidential. No part of this report may be (i) copied, photocopied, duplicated, stored or reproduced in any form by any means; or (ii) redistributed or passed on, directly or indirectly, to any other person in whole or in part, for any purpose without the prior written consent of CGS-CIMB.

The information contained in this research report is prepared from data believed to be correct and reliable at the time of issue of this report. CGS-CIMB may or may not issue regular reports on the subject matter of this report at any frequency and may cease to do so or change the periodicity of reports at any time. CGS-CIMB has no obligation to update this report in the event of a material change to the information contained in this report. CGS-CIMB does not accept any obligation to (i) check or ensure that the contents of this report remain current, reliable or relevant, (ii) ensure that the content of this report constitutes all the information a prospective investor may require, (iii) ensure the adequacy, accuracy, completeness, reliability or fairness of any views, opinions and information, and accordingly, CGS-CIMB, its affiliates and related persons including China Galaxy International Financial Holdings Limited ("CGIFHL") and CIMB Group Sdn. Bhd. ("CIMBG") and their respective related corporations (and their respective directors, associates, connected persons and/or employees) shall not be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof. In particular, CGS-CIMB disclaims all responsibility and liability for the views and opinions set out in this report.

Unless otherwise specified, this report is based upon sources which CGS-CIMB considers to be reasonable. Such sources will, unless otherwise specified, for market data, be market data and prices available from the main stock exchange or market where the relevant security is listed, or, where appropriate, any other market. Information on the accounts and business of company(ies) will generally be based on published statements of the company(ies), information disseminated by regulatory information services, other publicly available information and information resulting from our research.

Whilst every effort is made to ensure that statements of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable as of the date of the document in which they are contained and must not be construed as a representation that the matters referred to therein will occur. Past performance is not a reliable indicator of future performance. The value of investments may go down as well as up and those investing may, depending on the investments in question, lose more than the initial investment. No report shall constitute an offer or an invitation by or on behalf of CGS-CIMB or any of its affiliates (including CGIFHL, CIMBG and their respective related corporations) to any person to buy or sell any investments.

CGS-CIMB, its affiliates and related corporations (including CGIFHL, CIMBG and their respective related corporations) and/or their respective directors, associates, connected parties and/or employees may own or have positions in securities of the company(ies) covered in this research report or any securities related thereto and may from time to time add to or dispose of, or may be materially interested in, any such securities. Further, CGS-CIMB, its affiliates and their respective related corporations (including CGIFHL, CIMBG and their respective related corporations) do and seek to do business with the company(ies) covered in this research report and may from time to time act as market maker or have assumed an underwriting commitment in securities of such company(ies), may sell them to or buy them from customers on a principal basis and may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) as well as solicit such investment, advisory or other services from any entity mentioned in this report.

CGS-CIMB or its affiliates (including CGIFHL, CIMBG and their respective related corporations) may enter into an agreement with the company(ies) covered in this report relating to the production of research reports. CGS-CIMB may disclose the contents of this report to the company(ies) covered by it and may have amended the contents of this report following such disclosure.

The analyst responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and autonomously. No part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations(s) or view(s) in this report. The analyst(s) who prepared this research report is prohibited from receiving any compensation, incentive or bonus based on specific investment banking transactions or for providing a specific recommendation for, or view of, a particular company. Information barriers and other arrangements may be established where necessary to prevent conflicts of interests arising. However, the analyst(s) may receive compensation that is based on his/her coverage of company(ies) in the performance of his/her duties or the performance of his/her recommendations and the research personnel involved in the preparation of this report may also participate in the solicitation of the businesses as described above. In reviewing this research report, an investor should be aware that any or all of the foregoing, among other things, may give rise to real or potential conflicts of interest. Additional information is, subject to the duties of confidentiality, available on request.

Reports relating to a specific geographical area are produced by the corresponding CGS-CIMB entity as listed in the table below. The term "CGS-CIMB" shall denote, where appropriate, the relevant entity distributing or disseminating the report in the particular jurisdiction referenced below, or, in every other case except as otherwise stated herein, CGS-CIMB Securities International Pte. Ltd. and its affiliates, subsidiaries and related corporations.

Country	CGS-CIMB Entity	Regulated by
Hong Kong	CGS-CIMB Securities (Hong Kong) Limited	Securities and Futures Commission Hong Kong
India	CGS-CIMB Securities (India) Private Limited	Securities and Exchange Board of India (SEBI)
Indonesia	PT CGS-CIMB Sekuritas Indonesia	Financial Services Authority of Indonesia
Malaysia	CGS-CIMB Securities Sdn. Bhd.	Securities Commission Malaysia
Singapore	CGS-CIMB Securities (Singapore) Pte. Ltd.	Monetary Authority of Singapore
South Korea	CGS-CIMB Securities (Hong Kong) Limited, Korea Branch	Financial Services Commission and Financial Supervisory Service
Thailand	CGS-CIMB Securities (Thailand) Co. Ltd.	Securities and Exchange Commission Thailand

#### Other Significant Financial Interests:

(i) As of January 31, 2022 CGS-CIMB has a proprietary position in the securities (which may include but not be limited to shares, warrants, call warrants and/or any other derivatives) in the following company or companies covered or recommended in this report

(a) Singapore Exchange

(ii) Analyst Disclosure: As of February 5, 2022, the analyst(s) who prepared this report, and the associate(s), has / have an interest in the securities (which may include but not be limited to shares, warrants, call warrants and/or any other derivatives) in the following company or companies covered or recommended in this report

(a) -

This report does not purport to contain all the information that a prospective investor may require. Neither CGS-CIMB nor any of its affiliates (including CGIFHL, CIMBG and their related corporations) make any guarantee, representation or warranty, express or implied, as to the adequacy, accuracy, completeness, reliability or fairness of any such information and opinion contained in this report. Neither CGS-CIMB nor any of its affiliates nor their related persons (including CGIFHL, CIMBG and their related corporations) shall be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof.

This report is general in nature and has been prepared for information purposes only. It is intended for circulation amongst CGS-CIMB's clients generally and does not have regard to the specific investment objectives, financial situation and the particular needs of any specific person who may receive this report. The information and opinions in this report are not and should not be construed or considered as an offer, recommendation or solicitation to buy or sell the subject securities, related investments or other financial instruments or any derivative instrument, or any rights pertaining thereto.

Investors are advised to make their own independent evaluation of the information contained in this research report, consider their own individual investment objectives, financial situation and particular needs and consult their own professional and financial advisers as to the legal, business, financial, tax and other aspects before participating in any transaction in respect of the securities of company(ies) covered in this research report.

The securities of such company(ies) may not be eligible for sale in all jurisdictions or to all categories of investors.

#### Restrictions on Distributions

**Australia:** Despite anything in this report to the contrary, this research is provided in Australia by CGS-CIMB Securities (Singapore) Pte. Ltd. and CGS-CIMB Securities (Hong Kong) Limited. This research is only available in Australia to persons who are "wholesale clients" (within the meaning of the Corporations Act 2001 (Cth) and is supplied solely for the use of such wholesale clients and shall not be distributed or passed on to any other person. You represent and warrant that if you are in Australia, you are a "wholesale client". This research is of a general nature only and has been prepared without taking into account the objectives, financial situation or needs of the individual recipient. CGS-CIMB Securities (Singapore) Pte. Ltd. and CGS-CIMB Securities (Hong Kong) Limited do not hold, and are not required to hold an Australian financial services license. CGS-CIMB Securities (Singapore) Pte. Ltd. and CGS-CIMB Securities (Hong Kong) Limited rely on "passporting" exemptions for entities appropriately licensed by the Monetary Authority of Singapore (under ASIC Class Order 03/1102) and the Securities and Futures Commission in Hong Kong (under ASIC Class Order 03/1103).

**Canada:** This research report has not been prepared in accordance with the disclosure requirements of Dealer Member Rule 3400 – Research Restrictions and Disclosure Requirements of the Investment Industry Regulatory Organization of Canada. For any research report distributed by CIBC, further disclosures related to CIBC conflicts of interest can be found at <https://researchcentral.cibcwm.com>.

**China:** For the purpose of this report, the People's Republic of China ("PRC") does not include the Hong Kong Special Administrative Region, the Macau Special Administrative Region or Taiwan. The distributor of this report has not been approved or licensed by the China Securities Regulatory Commission or any other relevant regulatory authority or governmental agency in the PRC. This report contains only marketing information. The distribution of this report is not an offer to buy or sell to any person within or outside PRC or a solicitation to any person within or outside of PRC to buy or sell any instruments described herein. This report is being issued outside the PRC to a limited number of institutional investors and may not be provided to any person other than the original recipient and may not be reproduced or used for any other purpose.

**France:** Only qualified investors within the meaning of French law shall have access to this report. This report shall not be considered as an offer to subscribe to, or used in connection with, any offer for subscription or sale or marketing or direct or indirect distribution of financial instruments and it is not intended as a solicitation for the purchase of any financial instrument.

**Germany:** This report is only directed at persons who are professional investors as defined in sec 31a(2) of the German Securities Trading Act (WpHG). This publication constitutes research of a non-binding nature on the market situation and the investment instruments cited here at the time of the publication of the information.

The current prices/yields in this issue are based upon closing prices from Bloomberg as of the day preceding publication. Please note that neither the German Federal Financial Supervisory Agency (BaFin), nor any other supervisory authority exercises any control over the content of this report.

**Hong Kong:** This report is issued and distributed in Hong Kong by CGS-CIMB Securities (Hong Kong) Limited ("CHK") which is licensed in Hong Kong by the Securities and Futures Commission for Type 1 (dealing in securities) and Type 4 (advising on securities) activities. Any investors wishing to purchase or otherwise deal in the securities covered in this report should contact the Head of Sales at CGS-CIMB Securities (Hong Kong) Limited. The views and opinions in this research report are our own as of the date hereof and are subject to change. If the Financial Services and Markets Act of the United Kingdom or the rules of the Financial Conduct Authority apply to a recipient, our obligations owed to such recipient therein are unaffected.



CHK has no obligation to update its opinion or the information in this research report.  
This publication is strictly confidential and is for private circulation only to clients of CHK.  
CHK does not make a market on other securities mentioned in the report.

**India:** This report is issued and distributed in India by CGS-CIMB Securities (India) Private Limited ("CGS-CIMB India"). CGS-CIMB India is a subsidiary of CGS-CIMB Securities International Pte. Ltd. which is in turn is a 50:50 joint venture company of CGIFHL and CIMBG. The details of the members of the group of companies of CGS-CIMB can be found at [www.cgs-cimb.com](http://www.cgs-cimb.com), CGIFHL at [www.chinastock.com.hk/en/ACG/ContactUs/index.aspx](http://www.chinastock.com.hk/en/ACG/ContactUs/index.aspx) and CIMBG at [www.cimb.com/en/who-we-are.html](http://www.cimb.com/en/who-we-are.html). CGS-CIMB India is registered with the National Stock Exchange of India Limited and BSE Limited as a trading and clearing member (Merchant Banking Number: INM00012037) under the Securities and Exchange Board of India (Stock Brokers and Sub-Brokers) Regulations, 1992. In accordance with the provisions of Regulation 4(g) of the Securities and Exchange Board of India (Investment Advisers) Regulations, 2013, CGS-CIMB India is not required to seek registration with the Securities and Exchange Board of India ("SEBI") as an Investment Adviser. CGS-CIMB India is registered with SEBI (SEBI Registration Number: INZ000209135) as a Research Analyst (INH00000669) pursuant to the SEBI (Research Analysts) Regulations, 2014 ("Regulations").

This report does not take into account the particular investment objectives, financial situations, or needs of the recipients. It is not intended for and does not deal with prohibitions on investment due to law/jurisdiction issues etc. which may exist for certain persons/entities. Recipients should rely on their own investigations and take their own professional advice before investment.

The report is not a "prospectus" as defined under Indian Law, including the Companies Act, 2013, and is not, and shall not be, approved by, or filed or registered with, any Indian regulator, including any Registrar of Companies in India, SEBI, any Indian stock exchange, or the Reserve Bank of India. No offer, or invitation to offer, or solicitation of subscription with respect to any such securities listed or proposed to be listed in India is being made, or intended to be made, to the public, or to any member or section of the public in India, through or pursuant to this report.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of CGS-CIMB India and they have received compensation based upon various factors, including quality, accuracy and value of research, firm profitability or revenues, client feedback and competitive factors. Research analysts', strategists' or economists' compensation is not linked to investment banking or capital markets transactions performed or proposed to be performed by CGS-CIMB India or its affiliates.

CGS-CIMB India does not have actual / beneficial ownership of 1% or more securities of the subject company in this research report, at the end of the month immediately preceding the date of publication of this research report. However, since affiliates of CGS-CIMB India are engaged in the financial services business, they might have in their normal course of business financial interests or actual / beneficial ownership of one per cent or more in various companies including the subject company in this research report.

CGS-CIMB India or its associates, may: (a) from time to time, have long or short position in, and buy or sell the securities of the subject company in this research report; or (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the subject company in this research report or act as an advisor or lender/borrower to such company or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions.

CGS-CIMB India, its associates and the analyst engaged in preparation of this research report have not received any compensation for investment banking, merchant banking or brokerage services from the subject company mentioned in the research report in the past 12 months.

CGS-CIMB India, its associates and the analyst engaged in preparation of this research report have not managed or co-managed public offering of securities for the subject company mentioned in the research report in the past 12 months. The analyst from CGS-CIMB India engaged in preparation of this research report or his/her relative (a) do not have any financial interests in the subject company mentioned in this research report; (b) do not own 1% or more of the equity securities of the subject company mentioned in the research report as of the last day of the month preceding the publication of the research report; (c) do not have any material conflict of interest at the time of publication of the research report.

**Indonesia:** This report is issued and distributed by PT CGS-CIMB Sekuritas Indonesia ("CGS-CIMB Indonesia"). The views and opinions in this research report are our own as of the date hereof and are subject to change. CGS-CIMB Indonesia has no obligation to update its opinion or the information in this research report. This report is for private circulation only to clients of CGS-CIMB Indonesia. Neither this report nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens wherever they are domiciled or to Indonesian residents except in compliance with applicable Indonesian capital market laws and regulations.

This research report is not an offer of securities in Indonesia. The securities referred to in this research report have not been registered with the Financial Services Authority (Otoritas Jasa Keuangan) pursuant to relevant capital market laws and regulations, and may not be offered or sold within the territory of the Republic of Indonesia or to Indonesian citizens through a public offering or in circumstances which constitute an offer within the meaning of the Indonesian capital market law and regulations.

**Ireland:** CGS-CIMB is not an investment firm authorised in the Republic of Ireland and no part of this document should be construed as CGS-CIMB acting as, or otherwise claiming or representing to be, an investment firm authorised in the Republic of Ireland.

**Malaysia:** This report is distributed in Malaysia by CGS-CIMB Securities Sdn. Bhd. ("CGS-CIMB Malaysia") solely for the benefit of and for the exclusive use of our clients. Recipients of this report are to contact CGS-CIMB Malaysia, at Level 29, Menara Bumiputra-Commerce, No. 11, Jalan Raja Laut, 50350 Kuala Lumpur, Malaysia, in respect of any matters arising from or in connection with this report. CGS-CIMB Malaysia has no obligation to update, revise or reaffirm its opinion or the information in this research reports after the date of this report.

**New Zealand:** In New Zealand, this report is for distribution only to persons who are wholesale clients pursuant to section 5C of the Financial Advisers Act 2008.

**Singapore:** This report is issued and distributed by CGS-CIMB Securities (Singapore) Pte Ltd ("CGS-CIMB Singapore"). CGS-CIMB Singapore is a capital markets services licensee under the Securities and Futures Act (Chapter 289). Accordingly, it is exempted from the requirement to hold a financial adviser's licence under the Financial Advisers Act, Cap 110 ("FAA") for advising on investment products, by issuing or promulgating research analyses or research reports, whether in electronic, print or other form. CGS-CIMB Singapore is subject to the applicable rules under the FAA unless it is able to avail itself to any prescribed exemptions.

Recipients of this report are to contact CGS-CIMB Singapore, 50 Raffles Place, #16-02 Singapore Land Tower, Singapore in respect of any matters arising from, or in connection with this report. CGS-CIMB Singapore has no obligation to update its opinion or the information in this research report.

This publication is strictly confidential and is for private circulation only. If you have not been sent this report by CGS-CIMB Singapore directly, you may not rely, use or disclose to anyone else this report or its contents.

If the recipient of this research report is not an accredited investor, expert investor or institutional investor, CGS-CIMB Singapore accepts legal responsibility for the contents of the report without any disclaimer limiting or otherwise curtailing such legal responsibility. If the recipient is an accredited investor, expert investor or institutional investor, the recipient is deemed to acknowledge that CGS-CIMB Singapore is exempt from certain requirements under the FAA and its attendant regulations, and as such, is exempt from complying with the following:

- (a) Section 25 of the FAA (obligation to disclose product information);
- (b) Section 27 (duty not to make recommendation with respect to any investment product without having a reasonable basis where you may be reasonably expected to rely on the recommendation) of the FAA;
- (c) MAS Notice on Information to Clients and Product Information Disclosure [Notice No. FAA-N03];
- (d) MAS Notice on Recommendation on Investment Products [Notice No. FAA-N16];
- (e) Section 36 (obligation on disclosure of interest in specified products), and
- (f) any other laws, regulations, notices, directive, guidelines, circulars and practice notes which are related to the above, to the extent permitted by applicable laws, as may be amended from time to time, and any other laws, regulations, notices, directive, guidelines, circulars, and practice notes as we may notify you from time to time. In addition, the recipient who is an accredited investor, expert investor or institutional investor acknowledges that as CGS-CIMB Singapore is exempt from Section 27 of the FAA, the recipient will also not be able to file a civil claim against CGS-CIMB Singapore for any loss or damage arising from the recipient's reliance on any recommendation made by CGS-CIMB Singapore which would otherwise be a right that is available to the recipient under Section 27 of the FAA.

CGS-CIMB Singapore, its affiliates and related corporations, their directors, associates, connected parties and/or employees may own or have positions in specified products of the company(ies) covered in this research report or any specified products related thereto and may from time to time add to or dispose of, or may be materially interested in, any such specified products. Further, CGS-CIMB Singapore, its affiliates and its related corporations do and seek to do business with the company(ies) covered in this research report and may from time to time act as market maker or have assumed an underwriting commitment in specified products of such company(ies), may sell them to or buy them from customers on a principal basis and may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) as well as solicit such investment, advisory or other services from any entity mentioned in this report.

As of February 4, 2022, CGS-CIMB Singapore does not have a proprietary position in the recommended specified products in this report.

CGS-CIMB Singapore does not make a market on the securities mentioned in the report.

**South Korea:** This report is issued and distributed in South Korea by CGS-CIMB Securities (Hong Kong) Limited, Korea Branch ("CGS-CIMB Korea") which is licensed as a cash equity broker, and regulated by the Financial Services Commission and Financial Supervisory Service of Korea. In South Korea, this report is for distribution only to professional investors under Article 9(5) of the Financial Investment Services and Capital Market Act of Korea ("FSCMA").

**Spain:** This document is a research report and it is addressed to institutional investors only. The research report is of a general nature and not personalised and does not constitute investment advice so, as the case may be, the recipient must seek proper advice before adopting any investment decision. This document does not constitute a public offering of securities.

CGS-CIMB is not registered with the Spanish Comision Nacional del Mercado de Valores to provide investment services.

**Sweden:** This report contains only marketing information and has not been approved by the Swedish Financial Supervisory Authority. The distribution of this report is not an offer to sell to any person in Sweden or a solicitation to any person in Sweden to buy any instruments described herein and may not be forwarded to the public in Sweden.

**Switzerland:** This report has not been prepared in accordance with the recognized self-regulatory minimal standards for research reports of banks issued by the Swiss Bankers' Association (Directives on the Independence of Financial Research).

**Thailand:** This report is issued and distributed by CGS-CIMB Securities (Thailand) Co. Ltd. ("CGS-CIMB Thailand") based upon sources believed to be reliable (but their accuracy, completeness or correctness is not guaranteed). The statements or expressions of opinion herein were arrived at after due and careful consideration for use as information for investment. Such opinions are subject to change without notice and CGS-CIMB Thailand has no obligation to update its opinion or the information in this research report.

CGS-CIMB Thailand may act or acts as Market Maker, and issuer and offeror of Derivative Warrants and Structured Note which may have the following securities as its underlying securities. Investors should carefully read and study the details of the derivative warrants in the prospectus before making investment decisions.

AAV, ACE, ADVANC, AEONTS, AMATA, AOT, AP, BAM, BANPU, BBL, BCH, BCP, BCPG, BDMS, BEC, BEM, BGRIM, BH, BJC, BTS, CBG, CENTEL, CHG, CK, CKP, COM7, CPALL, CPF, CPN, CRC, DELTA, DOHOME, DTAC, EA, EGCO, ESSO, GLOBAL, GPSC, GULF, GUNKUL, HANA, HMPRO, ICHI, INTUCH, IRPC, IVL, JAS, JMART, JMT, KBANK, KCE, KKP, KTB, KTC, LH, MAJOR, MEGA, MINT, MTC, NRF, OR, ORI, OSP, PLANB, PRM, PSL, PTG, PTL, PTT, PTTEP, PTTGC, QH, RATCH, RBF, RS, SAWAD, SCB, SCC, SCGP, SINGER, SPALI, SPRC, STA, STEC, STGT, SUPER, SYNEX, TASCO, TCAP, THANI, TISCO, TKN, TOP, TQM, TRUE, TTB, TU, TVO, VGI, WHA

#### Corporate Governance Report:

The disclosure of the survey result of the Thai Institute of Directors Association ("IOD") regarding corporate governance is made pursuant to the policy of the Office of the Securities and Exchange Commission. The survey of the IOD is based on the information of a company listed on the Stock Exchange of Thailand and the Market for Alternative Investment disclosed to the public and able to be accessed by a general public investor. The result, therefore, is from the perspective of a third party. It is not an evaluation of operation and is not based on inside information.

The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey result may be changed after that date. CGS-CIMB Thailand does not confirm nor certify the accuracy of such survey result.

<b>Score Range:</b>	90 - 100	80 - 89	70 - 79	Below 70	No Survey Result
<b>Description:</b>	Excellent	Very Good	Good	N/A	N/A

**United Arab Emirates:** The distributor of this report has not been approved or licensed by the UAE Central Bank or any other relevant licensing authorities or governmental agencies in the United Arab Emirates. This report is strictly private and confidential and has not been reviewed by,

deposited or registered with UAE Central Bank or any other licensing authority or governmental agencies in the United Arab Emirates. This report is being issued outside the United Arab Emirates to a limited number of institutional investors and must not be provided to any person other than the original recipient and may not be reproduced or used for any other purpose. Further, the information contained in this report is not intended to lead to the sale of investments under any subscription agreement or the conclusion of any other contract of whatsoever nature within the territory of the United Arab Emirates.

**United Kingdom and European Economic Area (EEA):** In the United Kingdom and European Economic Area, this material is also being distributed by CGS-CIMB Securities (UK) Limited ("CGS-CIMB UK"). CGS-CIMB UK is authorized and regulated by the Financial Conduct Authority and its registered office is at 53 New Broad Street, London EC2M 1JJ. The material distributed by CGS-CIMB UK has been prepared in accordance with CGS-CIMB's policies for managing conflicts of interest arising as a result of publication and distribution of this material. This material is for distribution only to, and is solely directed at, selected persons on the basis that those persons: (a) are eligible counterparties and professional clients of CGS-CIMB UK; (b) have professional experience in matters relating to investments falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended, the "Order"), (c) fall within Article 49(2)(a) to (d) ("high net worth companies, unincorporated associations etc") of the Order; (d) are outside the United Kingdom subject to relevant regulation in each jurisdiction, material (all such persons together being referred to as "relevant persons"). This material is directed only at relevant persons and must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this material relates is available only to relevant persons and will be engaged in only with relevant persons.

This material is categorised as non-independent for the purposes of CGS-CIMB UK and therefore does not provide an impartial or objective assessment of the subject matter and does not constitute independent research. Consequently, this material has not been prepared in accordance with legal requirements designed to promote the independence of research and will not be subject to any prohibition on dealing ahead of the dissemination of research. Therefore, this material is considered a marketing communication.

**United States:** This research report is distributed in the United States of America by CGS-CIMB Securities (USA) Inc, a U.S. registered broker-dealer and an affiliate of CGS-CIMB Securities Sdn. Bhd., CGS-CIMB Securities (Singapore) Pte Ltd, PT CGS-CIMB Sekuritas Indonesia, CGS-CIMB Securities (Thailand) Co. Ltd, CGS-CIMB Securities (Hong Kong) Limited and CGS-CIMB Securities (India) Private Limited, and is distributed solely to persons who qualify as "U.S. Institutional Investors" as defined in Rule 15a-6 under the Securities and Exchange Act of 1934. This communication is only for Institutional Investors whose ordinary business activities involve investing in shares, bonds, and associated securities and/or derivative securities and who have professional experience in such investments. Any person who is not a U.S. Institutional Investor or Major Institutional Investor must not rely on this communication. The delivery of this research report to any person in the United States of America is not a recommendation to effect any transactions in the securities discussed herein, or an endorsement of any opinion expressed herein. CGS-CIMB Securities (USA) Inc, is a FINRA/SIPC member and takes responsibility for the content of this report. For further information or to place an order in any of the above-mentioned securities please contact a registered representative of CGS-CIMB Securities (USA) Inc.

CGS-CIMB Securities (USA) Inc. does not make a market on other securities mentioned in the report.

CGS-CIMB Securities (USA) Inc. has not managed or co-managed a public offering of any of the securities mentioned in the past 12 months.

CGS-CIMB Securities (USA) Inc. has not received compensation for investment banking services from any of the company mentioned in the past 12 months.

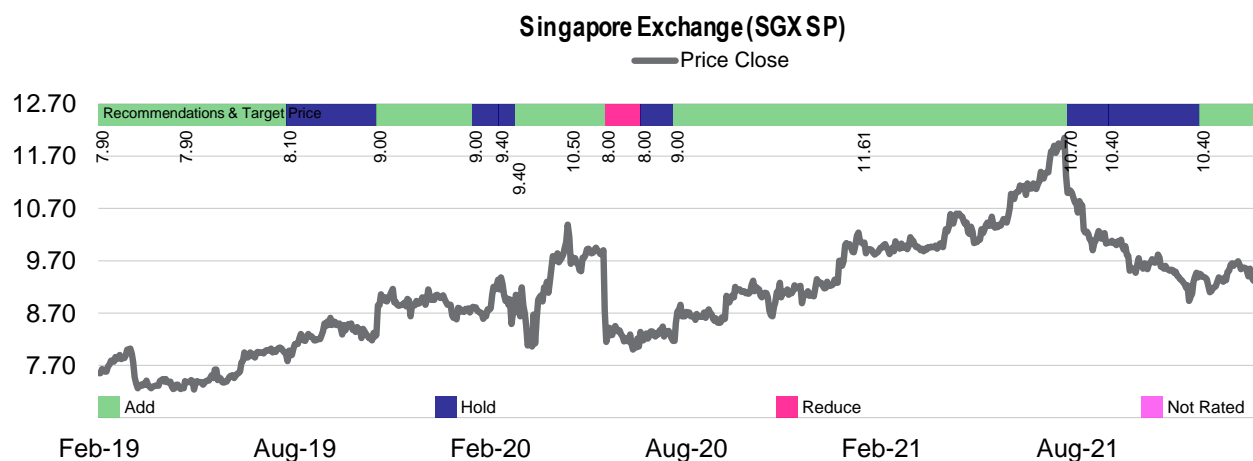
CGS-CIMB Securities (USA) Inc. neither expects to receive nor intends to seek compensation for investment banking services from any of the company mentioned within the next 3 months.

**United States Third-Party Disclaimer:** If this report is distributed in the United States of America by Raymond James & Associates, Inc ("RJA"), this report is third-party research prepared for and distributed in the United States of America by RJA pursuant to an arrangement between RJA and CGS-CIMB Securities International Pte. Ltd. ("CGS-CIMB"). CGS-CIMB is not an affiliate of RJA. This report is distributed solely to persons who qualify as "U.S. Institutional Investors" or as "Major U.S. Institutional Investors" as defined in Rule 15a-6 under the Securities and Exchange Act of 1934, as amended. This communication is only for U.S. Institutional Investors or Major U.S. Institutional Investor whose ordinary business activities involve investing in shares, bonds, and associated securities and/or derivative securities and who have professional experience in such investments. Any person who is not a U.S. Institutional Investor or Major U.S. Institutional Investor must not rely on this communication. The delivery of this report to any person in the U.S. is not a recommendation to effect any transactions in the securities discussed herein, or an endorsement of any opinion expressed herein. If you are receiving this report in the U.S. from RJA, a FINRA/SIPC member, it takes responsibility for the content of this report. For further information or to place an order in any of the above-mentioned securities please contact a registered representative of CGS-CIMB Securities (USA) Inc. or RJA. <https://raymondjames.com/InternationalEquityDisclosures>

**Other jurisdictions:** In any other jurisdictions, except if otherwise restricted by laws or regulations, this report is only for distribution to professional, institutional or sophisticated investors as defined in the laws and regulations of such jurisdictions.

Distribution of stock ratings and investment banking clients for quarter ended on 31 December 2021		
619 companies under coverage for quarter ended on 31 December 2021		
	Rating Distribution (%)	Investment Banking clients (%)
Add	71.1%	1.5%
Hold	21.8%	0.0%
Reduce	7.1%	0.0%

## Spitzer Chart for stock being researched ( 2 year data )



## Corporate Governance Report of Thai Listed Companies (CGR). CG Rating by the Thai Institute of Directors Association (Thai IOD) in 2021, Anti-Corruption 2021

**ADVANC** – Excellent, Certified, **AMATA** – Excellent, Certified, **ANAN** – Excellent, n/a, **AOT** – Excellent, n/a, **AP** – Excellent, Certified, **ASP** – Excellent, n/a, **AWC** – Excellent, Declared, **AU** – Good, n/a, **BAM** – Very Good, Certified, **BAY** – Excellent, Certified, **BBL** – Excellent, Certified, **BCH** – Very Good, Certified, **BCP** – Excellent, Certified, **BCPG** – Excellent, Certified, **BDMS** – Excellent, n/a, **BEAUTY** – Good, n/a, **BEM** – Excellent, n/a, **BH** – Good, n/a, **BJC** – Very Good, n/a, **BLA** – Very Good, Certified, **BTS** – Excellent, Certified, **CBG** – Very Good, n/a, **CCET** – n/a, n/a, **CENDEL** – Excellent, Certified, **CHAYO** – Very Good, n/a, **CHG** – Very Good, n/a, **CK** – Excellent, n/a, **COM7** – Excellent, Certified, **CPALL** – Excellent, Certified, **CPF** – Excellent, Certified, **CPN** – Excellent, Certified, **CPNREIT** – n/a, n/a, **CRC** – Excellent, Declared, **DELTA** – Excellent, Certified, **DDD** – Excellent, n/a, **DIF** – n/a, n/a, **DOHOME** – Very Good, Declared, **DREIT** – n/a, n/a, **DTAC** – Excellent, Certified, **ECL** – Excellent, Certified, **EGCO** – Excellent, Certified, **EPG** – Excellent, Certified, **ERW** – Very Good, Certified, **GFPT** – Excellent, Certified, **GGC** – Excellent, Certified, **GLOBAL** – Excellent, n/a, **HANA** – Excellent, Certified, **HMPRO** – Excellent, Certified, **HUMAN** – Good, n/a, **ICHI** – Excellent, Certified, **III** – Excellent, Declared, **INTUCH** – Excellent, Certified, **IRPC** – Excellent, Certified, **ITD** – Very Good, n/a, **IVL** – Excellent, Certified, **JASIF** – n/a, n/a, **JKN** – n/a, Certified, **JMT** – Very Good, n/a, **KBANK** – Excellent, Certified, **KCE** – Excellent, Certified, **KEX** – Very Good, Declared, **KKP** – Excellent, Certified, **KSL** – Excellent, Certified, **KTB** – Excellent, Certified, **KTC** – Excellent, Certified, **LH** – Excellent, n/a, **LPN** – Excellent, Certified, **M** – Very Good, Certified, **MAKRO** – Excellent, Certified, **MC** – Excellent, Certified, **MEGA** – Very Good, n/a, **MINT** – Excellent, Certified, **MTC** – Excellent, Certified, **NETBAY** – Very Good, n/a, **NRF** – Very Good, Declared, **OR** – Excellent, n/a, **ORI** – Excellent, Certified, **OSP** – Excellent, n/a, **PLANB** – Excellent, Certified, **PRINC** – Very Good, Certified, **PR9** – Excellent, Declared, **PSH** – Excellent, Certified, **PTT** – Excellent, Certified, **PTTEP** – Excellent, n/a, **PTTGC** – Excellent, Certified, **QH** – Excellent, Certified, **RAM** – n/a, n/a, **RBF** – Very Good, n/a, **RS** – Excellent, Declared, **RSP** – Good, n/a, **S** – Excellent, n/a, **SAK** – Very Good, Declared, **SAPPE** – Very Good, Certified, **SAWAD** – Very Good, n/a, **SCB** – Excellent, Certified, **SCC** – Excellent, Certified, **SCGP** – Excellent, Declared, **SECURE** – n/a, n/a, **SHR** – Excellent, n/a, **SIRI** – Excellent, Certified, **SPA** – Very Good, n/a, **SPALI** – Excellent, Certified, **SPRC** – Excellent, Certified, **SSP** – Good, Certified, **STEC** – Excellent, n/a, **SVI** – Excellent, Certified, **SYNEX** – Very Good, Certified, **TCAP** – Excellent, Certified, **THANI** – Excellent, Certified, **TIDLOR** – n/a, Certified, **TISCO** – Excellent, Certified, **TKN** – Very Good, n/a, **TOP** – Excellent, Certified, **TRUE** – Excellent, Certified, **TTB** – Excellent, Certified, **TU** – Excellent, Certified, **TVO** – Excellent, Certified, **VGI** – Excellent, Certified, **WHA** – Excellent, Certified, **WHART** – n/a, n/a, **WICE** – Excellent, Certified, **WORK** – Good, n/a.

- CG Score 2021 from Thai Institute of Directors Association (IOD)

- Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of August 5, 2021) are categorised into: companies that have declared their intention to join CAC, and companies certified by CAC.

### Recommendation Framework

#### Stock Ratings

Definition:

- Add** The stock's total return is expected to exceed 10% over the next 12 months.
- Hold** The stock's total return is expected to be between 0% and positive 10% over the next 12 months.
- Reduce** The stock's total return is expected to fall below 0% or more over the next 12 months.

The total expected return of a stock is defined as the sum of the: (i) percentage difference between the target price and the current price and (ii) the forward net dividend yields of the stock. Stock price targets have an investment horizon of 12 months.

#### Sector Ratings

Definition:

- Overweight** An Overweight rating means stocks in the sector have, on a market cap-weighted basis, a positive absolute recommendation.
- Neutral** A Neutral rating means stocks in the sector have, on a market cap-weighted basis, a neutral absolute recommendation.
- Underweight** An Underweight rating means stocks in the sector have, on a market cap-weighted basis, a negative absolute recommendation.

#### Country Ratings

Definition:

- Overweight** An Overweight rating means investors should be positioned with an above-market weight in this country relative to benchmark.
- Neutral** A Neutral rating means investors should be positioned with a neutral weight in this country relative to benchmark.
- Underweight** An Underweight rating means investors should be positioned with a below-market weight in this country relative to benchmark.



