

CARABAO GROUP

THAILAND / FOOD & BEVERAGE

CBG TB

BUY

FROM HOLD

TARGET PRICE	THB87.00
CLOSE	THB73.25
UP/DOWNSIDE	+18.8%
PRIOR TP	THB87.00
CHANGE IN TP	UNCHANGED
TP vs CONSENSUS	-3.2%

Beer is rising to support 1Q24

- CBG posted a 4Q23 net profit in line with our estimate – a six-quarter high due to overseas energy drink and beer contributions.
- We expect 1Q24 net profit to continue to grow q-q and y-y.
- Upgrade to BUY with the same TP of THB87.

4Q23 net profit was a seven-quarter high

CBG reported a 4Q23 net profit of THB649m (+23% q-q, +61% y-y), in line with our and BBG's consensus estimate. It was a six-quarter high. Total revenue grew by 13% q-q and 18% y-y, thanks to higher energy drink and distribution revenues. Specifically, energy drink revenue rose 3.5% q-q and 5% y-y, supported by an overseas revenue recovery by 21% q-q due to higher CLMV revenue. However, domestic energy drink revenue dropped by 8.8% q-q despite a 1% domestic market share gain to 23% in 4Q23. We are impressed by the higher energy drink gross margin of 37.5% (vs 35.6% in 3Q23), thanks to lower packaging costs.

Beer contribution showed significant numbers

4Q23 revenue from distribution fees sharply increased by 44% q-q and 41% y-y, thanks to receiving revenue from beer distribution. However, its packaging revenue was THB273m – below our estimate of THB450m. We think that most of the 4Q23 beer packaging revenue came from cans rather than bottles. While the selling price of cans is less than bottles, the 4Q23 overall gross margin dropped to 25.2% from 26.8% in 3Q23 and 26.5% in 4Q22, due to a higher beer revenue contribution – which has a low gross margin from distribution fees. SG&A to sales decreased to 10.6% in 4Q23 (vs 13.9% in 3Q23 and 17.2% in 4Q22), as Tawandang supports 50% of Carabao Cup's sponsorship expenses.

Expect 1Q24 net profit to continue to grow q-q and y-y

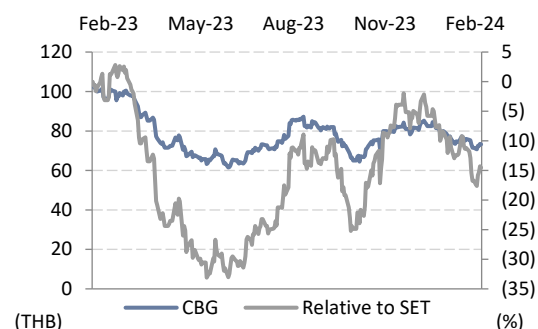
Initially, we expect CBG's 1Q24 net profit to continue to increase q-q and y-y to THB700m-720m, supported by a higher beer contribution from packaging and distribution fees. The main driver would come from Tawandang, which is set to expand in the traditional trade channel in 1Q24 onward. We maintain our 2024E net profit of THB2.8b (+47% y-y), due to a full-year's beer profit recognition that we expect to be around THB714m – accounting for 25% of total net profit.

Upgrade to BUY with the same target price at THB87

We upgrade to BUY from Hold with the same TP of THB87, based on an SoTP valuation. CBG's share price has fallen by 13% YTD, and our target has widened to an upside of 19%. CBG announced a 2H23 DPS of THB0.5, implying a dividend yield of 0.7%.

KEY STOCK DATA

YE Dec (THB m)	2023	2024E	2025E	2026E
Revenue	18,853	27,797	29,229	30,736
Net profit	1,924	2,828	2,925	3,083
EPS (THB)	1.92	2.83	2.92	3.08
vs Consensus (%)	-	45.9	12.4	1.4
EBITDA	3,245	4,292	4,423	4,625
Recurring net profit	1,924	2,828	2,925	3,083
Core EPS (THB)	1.92	2.83	2.92	3.08
Chg. In EPS est. (%)	nm	(0.1)	(3.6)	nm
EPS growth (%)	(15.8)	46.9	3.4	5.4
Core P/E (x)	38.1	25.9	25.0	23.8
Dividend yield (%)	1.2	1.9	2.0	2.1
EV/EBITDA (x)	24.0	18.5	18.0	17.2
Price/book (x)	6.4	5.5	5.0	4.5
Net debt/Equity (%)	41.2	49.1	44.6	40.6
ROE (%)	17.4	22.9	21.0	20.0



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(3.9)	(3.6)	(30.6)
Relative to country (%)	(2.9)	(1.6)	(16.9)
Mkt cap (USD m)	2,034		
3m avg. daily turnover (USD m)	9.1		
Free float (%)	29		
Major shareholder	Sathienthamholding Co Ltd (25%)		
12m high/low (THB)	106.00/61.25		
Issued shares (m)	1,000.00		

Sources: Bloomberg consensus; FSSIA estimates



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Investment thesis

We expect the 2024 energy drink market value to moderately grow by 3% y-y, supported by a low base and a slight consumption recovery. We saw a profitability recovery starting in 2H23, thanks to declining packaging and utility costs. However, CBG is faced with soaring sugar prices, which should impact its costs in 1Q24 onward. Hence, its gross margin recovery should be lower than it had previously expected.

We estimate that strong net profit growth will continue into 1Q-2Q24, after recognizing a full quarter of beer-related revenue – from both packaging and distribution. However, since this is the launch period, we will continue to monitor the success of its beer business in the future. Moreover, if the beer profit contribution is lower than our forecast, it could create a downside to our projection by around 25% at most.

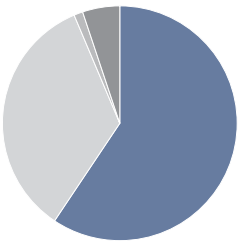
Company profile

CBG was established in 2002 by a joint investment between Khun Sathien Setthasit, Khun Nutchamai Thanombooncharoen, and Khun Yuenyong Opakul (Add Carabao). CBG is a holding company with investments in subsidiary companies which engage in manufacturing, marketing and distributing energy drinks and other drinks, both domestically and internationally. Its main product is its energy drink named Carabao Dang.

www.carabaogroup.com

Principal activities (revenue, 2023)

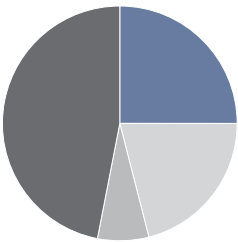
- Branded own - 59.4 %
- 3rd party distribution - 34.3 %
- Branded OEM - 1.2 %
- Others (Packaging) - 5.1 %



Source: Carabao Group

Major shareholders

- Sathienthamholding Co Ltd - 25.0 %
- Ms Nutchamai Thanombooncharoen - 21.0 %
- Mr Yuenyong Opakul - 7.1 %
- Others - 46.9 %



Source: Carabao Group

Catalysts

Potential catalysts for CBG’s earnings growth in 2024 are 1) revenue growth driven by rising market share; 2) declining packaging and raw material costs; 3) successful new product launches; and 4) a successful production line established in Myanmar.

Risks to our call

Downside risks to our P/E-based TP are 1) a slower-than-expected recovery in consumption; 2) higher competition in the domestic energy drink market; 3) a potential rise in packaging and raw material costs; and 4) regulatory risks from domestic and international markets.

Event calendar

Date	Event
May 2024	1Q24 results announcement

Key assumptions

	2024E	2025E	2026E
Branded Own growth (%)	6.7	5.2	5.2
Branded OEM growth (%)	15.0	10.0	10.0
3rd-party growth (%)	118.1	5.0	5.0
Other - packaging (%)	55.1	5.0	5.0
Total revenue growth (%)	47.4	5.2	5.2
Gross margin (%)	21.6	21.4	21.5

Source: FSSIA estimates

Earnings sensitivity

- For every 1% increase in revenue, we estimate 2024 net profit to rise by 1.3%, and vice versa, all else being equal.
- For every 0.5% increase in GPM, we estimate 2024 net profit to rise by 4.2%, and vice versa, all else being equal.
- For every 0.2% increase in SG&A, we estimate 2024 net profit to fall by 1.7%, and vice versa, all else being equal.

Source: FSSIA estimates

Exhibit 1: CBG - 4Q23 earnings results

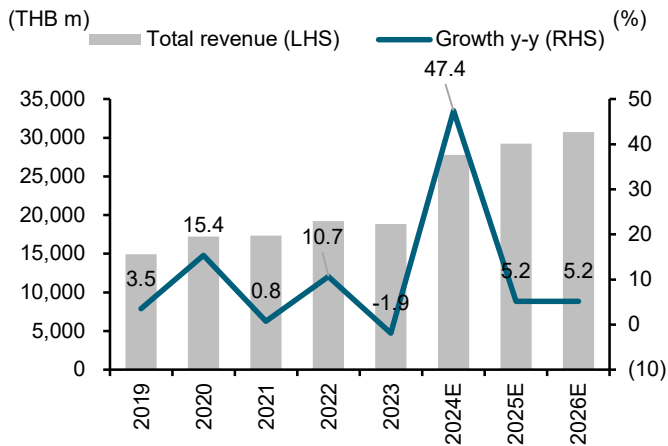
	4Q22	1Q23	2Q23	3Q23	4Q23	----- Change -----		2022	2023	Change
	(THB m)	(THB m)	(THB m)	(THB m)	(THB m)	(q-q%)	(y-y%)	(THB m)	(THB m)	(y-y%)
Sales	4,490	4,124	4,707	4,707	5,316	12.9	18.4	19,215	18,853	(1.9)
Cost of sales	3,299	3,107	3,447	3,445	3,975	15.4	20.5	13,582	13,974	2.9
Gross profit	1,191	1,017	1,260	1,262	1,341	6.2	12.6	5,633	4,879	(13.4)
SG&A	772	729	712	655	564	(13.9)	(26.9)	3,078	2,660	(13.6)
Operating profit	492	350	588	650	819	25.9	66.4	2,794	2,407	(13.8)
Interest expense	35	36	44	51	52	2.6	51.2	115	183	59.2
Tax expense	55	61	80	80	115	43.5	111.7	433	337	(22.2)
Reported net profit	404	264	482	530	649	22.6	60.8	2,282	1,924	(15.7)
Core profit	404	264	482	530	649	22.6	60.8	2,282	1,924	(15.7)
Key ratios (%)						(ppt)	(ppt)			
Gross margin	26.5	24.7	26.8	26.8	25.2	(1.6)	(1.3)	29.3	25.9	(3.4)
SG&A / Sales	17.2	17.7	15.1	13.9	10.6	(3.3)	(6.6)	16.0	14.1	(1.9)
Operating margin	11.0	8.5	12.5	13.8	15.4	1.6	4.4	14.5	12.8	(1.8)
Net margin	9.0	6.4	10.2	11.3	12.2	1.0	3.2	11.9	10.2	(1.7)
Core margin	9.0	6.4	10.2	11.3	12.2	1.0	3.2	11.9	10.2	(1.7)
Operating statistics (THB m)										
Branded Own sales	2,756	2,486	3,017	2,798	2,896	3.5	5.1	12,591	11,197	(11.1)
Branded Own - domestic	1,325	1,163	1,526	1,651	1,505	(8.8)	13.6	5,765	5,844	1.4
Branded Own - overseas	1,432	1,324	1,491	1,147	1,391	21.3	(2.9)	6,821	5,353	(21.5)
Branded OEM sales	82	49	64	61	59	(3.3)	(28.0)	467	233	(50.0)
3rd-party sales	1,478	1,464	1,452	1,450	2,088	44.0	41.3	5,349	6,454	20.7
Other (packaging)	174	124	174	398	273	(31.4)	56.9	808	969	19.9
GM - Branded Own (%)	34.2	33.7	35.2	35.6	37.5	1.9	3.3	38.4	34.8	(3.6)
GM - Branded OEM (%)	12.2	12.1	14.1	18.0	18.6	0.6	6.4	11.4	14.7	3.3
GM - 3rd party (%)	12.2	9.6	10.0	10.0	8.2	(1.8)	(4.0)	9.6	9.9	0.3
GM - other (%)	32.2	26.7	25.3	27.6	25.6	(2.0)	(6.5)	40.5	26.5	(14.0)
Domestic sales (% of total sales)	67.8	67.9	68.0	75.3	73.6	(1.8)	5.7	60.1	64.2	4.1
Overseas sales (% of total sales)	32.2	32.1	32.0	24.7	26.4	1.8	(5.7)	39.9	35.8	(4.1)
Domestic sales (THB m)	3,046	2,799	3,202	3,546	3,911	10.3	28.4	9,285	9,547	2.8
Overseas sales (THB m)	1,444	1,325	1,505	1,161	1,405	21.0	(2.7)	5,441	3,991	(26.6)
CLMV	1,292	1,194	1,291	953	1,201	26.0	(7.0)	4,617	3,438	(25.5)
China	22	9	41	38	0	nm	nm	445	88	(80.2)
UK	45	39	56	48	46	(4.2)	2.2	148	143	(3.4)
Others	84	83	117	123	159	29.3	89.3	230	323	40.4

Sources: CBG; FSSIA's compilation

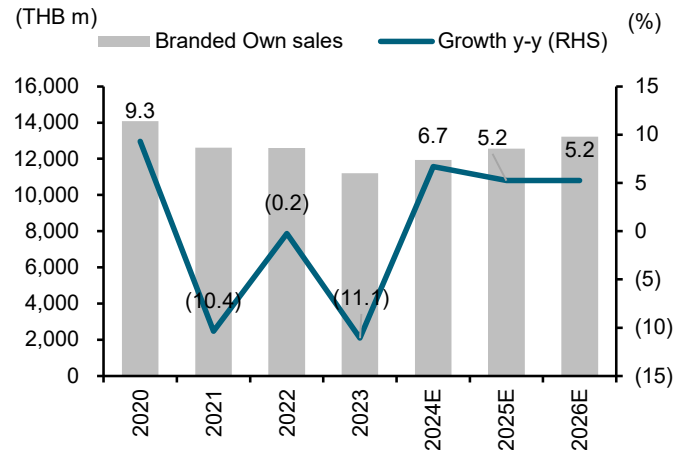
Exhibit 2: Key assumptions for CBG

	Actual	Forecast			Growth		
	2023	2024E	2025E	2026E	2024E	2025E	2026E
	(THB m)	(THB m)	(THB m)	(THB m)	(%)	(%)	(%)
Total revenue	18,853	27,797	29,229	30,736	47.4	5.2	5.2
Costs	13,974	21,801	22,962	24,142	56.0	5.3	5.1
Gross profit	4,879	5,996	6,267	6,594	22.9	4.5	5.2
SG&A expense	2,660	2,780	2,923	3,074	4.5	5.2	5.2
Interest expense	183	187	197	201	2.1	5.3	2.1
Profit sharing	8	25	28	31	194.3	12.0	10.7
Reported net profit	1,924	2,828	2,925	3,083	46.9	3.4	5.4
Core profit	1,924	2,828	2,925	3,083	46.9	3.4	5.4
Key ratios (%)							
Total revenue growth	(1.9)	47.4	5.2	5.2			
Net profit growth	(15.8)	46.9	3.4	5.4			
Core profit growth	(15.8)	46.9	3.4	5.4			
Gross margin	25.9	21.6	21.4	21.5	(4.3)	(0.1)	0.0
SG&A to sales	14.1	10.0	10.0	10.0	(4.1)	0.0	0.0
Net margin	10.2	10.2	10.0	10.0	(0.0)	(0.2)	0.0
Core margin	10.2	10.2	10.0	10.0	(0.0)	(0.2)	0.0
Operating statistics (THB m)							
Branded Own sales	11,196	11,945	12,571	13,230	6.7	5.2	5.2
Branded OEM sales	232	267	293	323	15.0	10.0	10.0
3rd-party sales	6,458	14,086	14,790	15,530	118.1	5.0	5.0
- Spirits	5,500	5,775	6,064	6,367	5.0	5.0	5.0
- Beer	500	8,000	8,400	8,820	1500.0	5.0	5.0
Other (packaging) sales	967	1,500	1,575	1,654	55.1	5.0	5.0
GM - Branded Own (%)	35.6	36.2	36.0	36.0	0.6	(0.2)	0.0
GM - Branded OEM (%)	15.9	18.0	18.0	18.0	2.1	0.0	0.0
GM - 3rd party (%)	9.3	7.4	7.2	7.2	(2.0)	(0.2)	0.0
GM - Beer (%)	5.0	5.0	5.0	5.0	0.0	0.0	0.0
Domestic sales (THB m)	13,457	22,077	23,194	24,368	64.1	5.1	5.1
Overseas sales (THB m)	5,396	5,721	6,035	6,368	6.0	5.5	5.5
Domestic sales (% of total sales)	71.4	79.4	79.4	79.3	8.0	(0.1)	(0.1)
Overseas sales (% of total sales)	28.6	20.6	20.6	20.7	(8.0)	0.1	0.1
Aluminum price (USD per ton)	2,300	2,300	2,300	2,300	0.0	0.0	0.0
Sugar price (US cent per pound)	21.0	25.0	23.0	21.0	19.0	(8.0)	(8.7)

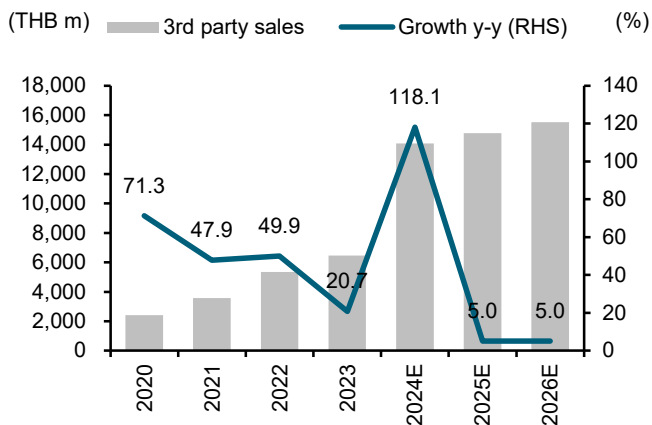
Source: FSSIA estimates

Exhibit 3: Total revenue and growth

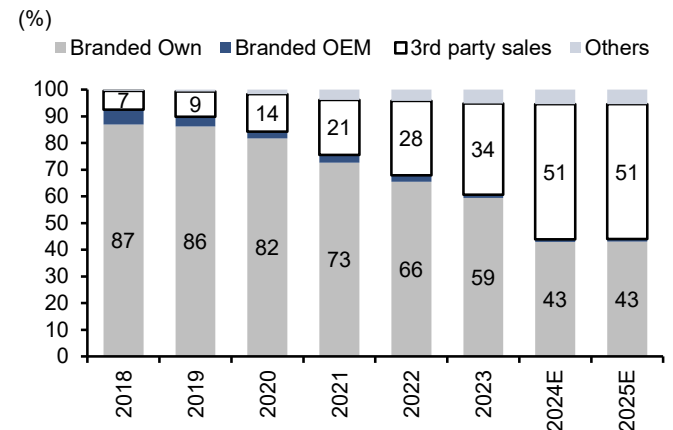
Sources: CBG, FSSIA estimates

Exhibit 4: Branded own sales and growth

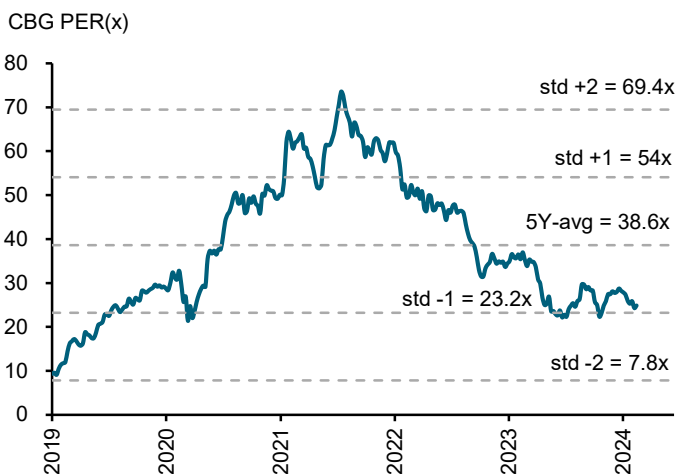
Sources: CBG, FSSIA estimates

Exhibit 5: 3rd-party sales and growth

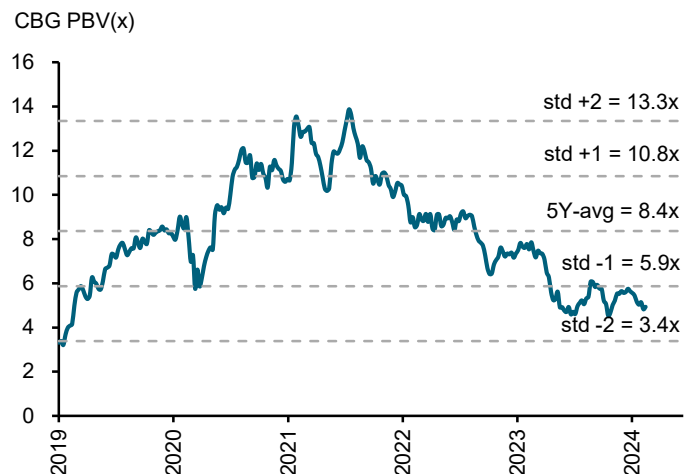
Sources: CBG, FSSIA estimates

Exhibit 6: Revenue proportion

Sources: CBG, FSSIA estimates

Exhibit 7: Historical P/E band

Sources: Bloomberg, FSSIA's compilation

Exhibit 8: Historical P/BV band

Sources: Bloomberg, FSSIA's compilation

Financial Statements

Carabao Group

Profit and Loss (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Revenue	19,215	18,853	27,797	29,229	30,736
Cost of goods sold	(13,582)	(13,974)	(21,801)	(22,962)	(24,142)
Gross profit	5,633	4,879	5,996	6,267	6,594
Other operating income	239	188	222	210	221
Operating costs	(3,078)	(2,660)	(2,780)	(2,923)	(3,074)
Operating EBITDA	3,607	3,245	4,292	4,423	4,625
Depreciation	(813)	(838)	(853)	(868)	(883)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	2,794	2,407	3,439	3,555	3,742
Net financing costs	(114)	(178)	(184)	(194)	(198)
Associates	5	8	25	28	31
Recurring non-operating income	5	8	25	28	31
Non-recurring items	0	0	0	0	0
Profit before tax	2,684	2,237	3,280	3,389	3,575
Tax	(433)	(337)	(488)	(504)	(532)
Profit after tax	2,251	1,900	2,791	2,885	3,043
Minority interests	35	24	36	40	40
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	2,286	1,924	2,828	2,925	3,083
Non-recurring items & goodwill (net)	-	-	-	-	-
Recurring net profit	2,286	1,924	2,828	2,925	3,083
Per share (THB)					
Recurring EPS *	2.29	1.92	2.83	2.92	3.08
Reported EPS	2.29	1.92	2.83	2.92	3.08
DPS	1.50	0.90	1.41	1.46	1.54
Diluted shares (used to calculate per share data)	1,000	1,000	1,000	1,000	1,000
Growth					
Revenue (%)	10.7	(1.9)	47.4	5.2	5.2
Operating EBITDA (%)	(14.1)	(10.0)	32.3	3.1	4.6
Operating EBIT (%)	(18.9)	(13.8)	42.9	3.4	5.3
Recurring EPS (%)	(20.6)	(15.8)	46.9	3.4	5.4
Reported EPS (%)	(20.6)	(15.8)	46.9	3.4	5.4
Operating performance					
Gross margin inc. depreciation (%)	29.3	25.9	21.6	21.4	21.5
Gross margin exc. depreciation (%)	33.5	30.3	24.6	24.4	24.3
Operating EBITDA margin (%)	18.8	17.2	15.4	15.1	15.0
Operating EBIT margin (%)	14.5	12.8	12.4	12.2	12.2
Net margin (%)	11.9	10.2	10.2	10.0	10.0
Effective tax rate (%)	16.1	15.1	14.9	14.9	14.9
Dividend payout on recurring profit (%)	65.6	46.8	50.0	50.0	50.0
Interest cover (X)	24.5	13.5	18.8	18.5	19.0
Inventory days	72.2	69.6	51.2	60.8	60.8
Debtor days	40.7	45.7	34.4	39.0	39.0
Creditor days	51.8	54.2	46.4	55.7	55.7
Operating ROIC (%)	14.2	12.2	16.1	14.4	14.1
ROIC (%)	13.5	11.6	15.4	14.0	13.7
ROE (%)	21.9	17.4	22.9	21.0	20.0
ROA (%)	11.9	10.3	13.4	12.0	11.7

* Pre-exceptional, pre-goodwill and fully diluted

Revenue by Division (THB m)	2022	2023	2024E	2025E	2026E
Branded own	12,591	11,196	11,945	12,571	13,230
3rd party distribution	5,350	6,458	14,086	14,790	15,530
Branded OEM	467	232	267	293	323
Others (Packaging)	807	967	1,500	1,575	1,654

Sources: Carabao Group; FSSIA estimates

Financial Statements

Carabao Group

Cash Flow (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Recurring net profit	2,286	1,924	2,828	2,925	3,083
Depreciation	813	838	853	868	883
Associates & minorities	-	-	-	-	-
Other non-cash items	(19)	(61)	6	17	(12)
Change in working capital	(1,117)	992	(860)	(170)	(178)
Cash flow from operations	1,963	3,694	2,827	3,640	3,776
Capex - maintenance	(737)	(822)	(3,303)	(2,257)	(2,296)
Capex - new investment	-	-	-	-	-
Net acquisitions & disposals	-	-	-	-	-
Other investments (net)	(16)	(26)	41	(4)	(4)
Cash flow from investing	(753)	(848)	(3,262)	(2,261)	(2,300)
Dividends paid	(1,760)	(1,156)	(1,414)	(1,462)	(1,542)
Equity finance	0	0	0	0	0
Debt finance	326	(1,438)	1,641	395	166
Other financing cash flows	27	(5)	105	16	17
Cash flow from financing	(1,408)	(2,598)	332	(1,052)	(1,359)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	(198)	248	(102)	327	117
Free cash flow to firm (FCFF)	1,324.54	3,029.30	(247.08)	1,575.84	1,677.06
Free cash flow to equity (FCFE)	1,562.23	1,403.93	1,312.01	1,789.63	1,658.54
Per share (THB)					
FCFF per share	1.32	3.03	(0.25)	1.58	1.68
FCFE per share	1.56	1.40	1.31	1.79	1.66
Recurring cash flow per share	3.08	2.70	3.69	3.81	3.95
Balance Sheet (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Tangible fixed assets (gross)	16,143	17,819	19,525	21,262	23,028
Less: Accumulated depreciation	(3,291)	(4,944)	(3,905)	(4,252)	(4,606)
Tangible fixed assets (net)	12,852	12,875	15,620	17,009	18,422
Intangible fixed assets (net)	612	629	597	598	599
Long-term financial assets	-	-	-	-	-
Invest. in associates & subsidiaries	162	173	173	173	173
Cash & equivalents	936	1,184	1,082	1,409	1,526
A/C receivable	2,533	2,192	3,046	3,203	3,368
Inventories	2,718	2,295	3,584	3,775	3,969
Other current assets	160	131	139	146	154
Current assets	6,347	5,802	7,851	8,533	9,017
Other assets	66	65	56	58	61
Total assets	20,039	19,543	24,297	26,372	28,272
Common equity	10,683	11,491	13,200	14,663	16,204
Minorities etc.	(118)	(178)	(172)	(155)	(167)
Total shareholders' equity	10,565	11,312	13,028	14,508	16,037
Long term debt	1,082	3,747	3,055	3,273	3,228
Other long-term liabilities	205	201	306	322	338
Long-term liabilities	1,287	3,948	3,361	3,595	3,566
A/C payable	1,853	2,045	3,285	3,460	3,638
Short term debt	6,198	2,095	4,428	4,605	4,816
Other current liabilities	137	143	195	205	215
Current liabilities	8,187	4,283	7,908	8,270	8,669
Total liabilities and shareholders' equity	20,039	19,543	24,297	26,372	28,272
Net working capital	3,422	2,430	3,289	3,459	3,638
Invested capital	17,114	16,171	19,735	21,298	22,893
* Includes convertibles and preferred stock which is being treated as debt					
Per share (THB)					
Book value per share	10.68	11.49	13.20	14.66	16.20
Tangible book value per share	10.07	10.86	12.60	14.06	15.61
Financial strength					
Net debt/equity (%)	60.0	41.2	49.1	44.6	40.6
Net debt/total assets (%)	31.7	23.8	26.3	24.5	23.1
Current ratio (x)	0.8	1.4	1.0	1.0	1.0
CF interest cover (x)	14.7	8.9	8.1	10.2	9.4
Valuation	2022	2023	2024E	2025E	2026E
Recurring P/E (x) *	32.0	38.1	25.9	25.0	23.8
Recurring P/E @ target price (x) *	38.1	45.2	30.8	29.7	28.2
Reported P/E (x)	32.0	38.1	25.9	25.0	23.8
Dividend yield (%)	2.0	1.2	1.9	2.0	2.1
Price/book (x)	6.9	6.4	5.5	5.0	4.5
Price/tangible book (x)	7.3	6.7	5.8	5.2	4.7
EV/EBITDA (x) **	22.0	24.0	18.5	18.0	17.2
EV/EBITDA @ target price (x) **	25.8	28.2	21.7	21.1	20.2
EV/invested capital (x)	4.6	4.8	4.0	3.7	3.5
* Pre-exceptional, pre-goodwill and fully diluted ** EBITDA includes associate income and recurring non-operating income					

Sources: Carabao Group; FSSIA estimates

Carabao Group PCL (CBG TB)

FSSIA ESG rating


51.54 /100

Exhibit 9: FSSIA ESG score implication

Rating	Score	Implication
★★★★★	>79-100	Leading its industry peers in managing the most significant ESG risks which not only better cost efficiency but also lead to higher profitability.
★★★★☆	>59-79	A mixed track record of managing the most significant ESG risks and opportunities relative to industry peers.
★★★☆☆	>39-59	Relevant ESG materiality matrix has been constructively addressed, well-managed and incorporated into day-to-day operations, in which targets and achievements are evaluated annually.
★★☆☆☆	>19-39	Relevant ESG materiality matrix has been identified with key management in charge for progress to be followed up on and to provide intensive disclosure. Most targets are conventional and achievable.
★☆☆☆☆	1-19	The company has adopted the United Nations Sustainable Development Goals (UN SDGs), established sustainability management guidelines and fully complies with regulations or ESG suggested guidance from related organizations such as the SET and SEC.

Sources: FSSIA estimates

Exhibit 10: ESG – peer comparison

	FSSIA ESG score	Domestic ratings					Global ratings					Bloomberg			
		DJSI	SET THSI	THSI	CG score	AGM level	Thai CAC	Morningstar ESG risk	ESG Book	MSCI	Moody's	Refinitiv	S&P Global	ESG score	Disclosure score
SET100	69.20	5.34	4.40	4.40	4.76	4.65	3.84	Medium	51.76	BBB	20.87	58.72	63.91	3.72	28.17
Coverage	67.12	5.11	4.15	4.17	4.83	4.71	3.53	Medium	52.04	BB	16.97	56.85	62.09	3.40	31.94
CBG	51.54	--	Y	Y	4.00	4.00	Declared	High	59.58	B	--	33.28	56.00	2.14	41.92
ICHI	43.67	--	Y	Y	5.00	5.00	Certified	High	61.36	--	--	--	18.00	--	--
OSP	61.48	--	Y	Y	5.00	4.00	Declared	Medium	68.64	BBB	--	63.08	51.00	3.00	63.65
SAPPE	35.25	--	Y	Y	4.00	5.00	Certified	Medium	--	--	--	--	--	--	--
TACC	15.00	--	--	--	5.00	5.00	--	--	--	--	--	--	--	--	--

Sources: [SETTRADE.com](https://www.settrade.com); FSSIA's compilation

Exhibit 11: ESG score by Bloomberg

FY ending Dec 31	FY 2020	FY 2021	FY 2022
ESG financial materiality scores - ESG score	1.42	2.14	—
BESG environmental pillar score	0.67	1.92	—
BESG social pillar score	0.74	0.78	—
BESG governance pillar score	3.60	4.25	—
ESG disclosure score	34.38	41.92	—
Environmental disclosure score	20.27	31.89	—
Social disclosure score	19.20	30.20	—
Governance disclosure score	63.58	63.58	—
Environmental			
Emissions reduction initiatives	Yes	Yes	No
Climate change policy	Yes	Yes	Yes
Climate change opportunities discussed	No	No	No
Risks of climate change discussed	Yes	Yes	Yes
GHG scope 1	—	16	82
GHG scope 2 location-based	—	43	42
GHG Scope 3	—	1	74
Carbon per unit of production	—	—	—
Biodiversity policy	No	No	No
Energy efficiency policy	Yes	Yes	No
Total energy consumption	90	135	—
Renewable energy use	—	6	—
Electricity used	90	88	—
Fuel used - natural gas	—	—	—

Sources: Bloomberg; FSSIA's compilation

Exhibit 12: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2020	FY 2021	FY 2022
Fuel used - crude oil/diesel	No	No	No
Waste reduction policy	Yes	Yes	No
Hazardous waste	—	0	—
Total waste	5	7	—
Waste recycled	4	7	—
Waste sent to landfills	—	0	—
Environmental supply chain management	No	No	No
Water policy	Yes	Yes	Yes
Water consumption	3,070,910	1,110,020	—
Social			
Human rights policy	Yes	Yes	Yes
Policy against child labor	No	No	No
Quality assurance and recall policy	Yes	Yes	Yes
Consumer data protection policy	No	No	No
Equal opportunity policy	No	No	No
Gender pay gap breakout	No	No	Yes
Pct women in workforce	33	34	—
Pct disabled in workforce	—	—	—
Business ethics policy	No	Yes	Yes
Anti-bribery ethics policy	No	Yes	Yes
Health and safety policy	Yes	Yes	Yes
Lost time incident rate - employees	0	0	—
Total recordable incident rate - employees	—	—	—
Training policy	Yes	Yes	Yes
Fair remuneration policy	No	No	No
Number of employees – CSR	2,993	3,232	3,325
Employee turnover pct	—	—	—
Total hours spent by firm - employee training	38,150	33,137	—
Social supply chain management	No	No	No
Governance			
Board size	11	13	13
No. of independent directors (ID)	5	6	6
No. of women on board	4	4	4
No. of non-executive directors on board	6	7	8
Company conducts board evaluations	Yes	Yes	Yes
No. of board meetings for the year	7	6	6
Board meeting attendance pct	91	100	95
Board duration (years)	—	—	—
Director share ownership guidelines	No	No	No
Age of the youngest director	—	—	—
Age of the oldest director	—	—	—
No. of executives / company managers	7	7	6
No. of female executives	2	2	1
Executive share ownership guidelines	No	No	No
Size of audit committee	3	3	3
No. of ID on audit committee	3	3	3
Audit committee meetings	5	5	5
Audit meeting attendance %	100	100	100
Size of compensation committee	4	4	4
No. of ID on compensation committee	2	2	2
No. of compensation committee meetings	2	4	2
Compensation meeting attendance %	100	100	100
Size of nomination committee	4	4	4
No. of nomination committee meetings	2	4	2
Nomination meeting attendance %	100	100	100
Sustainability governance			
Verification type	No	No	No

Sources: Bloomberg; FSSIA's compilation

Disclaimer for ESG scoring

ESG score	Methodology	Rating																				
The Dow Jones Sustainability Indices (DJSI) By S&P Global	The DJSI World applies a transparent, rules-based component selection process based on the companies' Total Sustainability Scores resulting from the annual S&P Global Corporate Sustainability Assessment (CSA). Only the top-ranked companies within each industry are selected for inclusion.	Be a member and invited to the annual S&P Global Corporate Sustainability Assessment (CSA) for DJSI. Companies with an S&P Global ESG Score of less than 45% of the S&P Global ESG Score of the highest scoring company are disqualified. The constituents of the DJSI indices are selected from the Eligible Universe.																				
Sustainability Investment List (THSI) by The Stock Exchange of Thailand (SET)	THSI quantifies responsibility in Environmental and Social issues by managing business with transparency in Governance, updated annually. Candidates must pass the preemptive criteria, with two crucial conditions: 1) no irregular trading of the board members and executives; and 2) free float of >150 shareholders, and combined holding must be >15% of paid-up capital. Some key disqualifying criteria include: 1) CG score of below 70%; 2) independent directors and free float violation; 3) executives' wrongdoing related to CG, social & environmental impacts; 4) equity in negative territory; and 5) earnings in red for > 3 years in the last 5 years.	To be eligible for THSI inclusion , verified data must be scored at a minimum of 50% for each indicator, unless the company is a part of DJSI during the assessment year. The scoring will be fairly weighted against the nature of the relevant industry and materiality. SETTHSI Index is extended from the THSI companies whose 1) market capitalization > THB5b (~USD150b); 2) free float >20%; and 3) liquidity >0.5% of paid-up capital for at least 9 out of 12 months. The SETTHSI Index is a market capitalisation-weighted index, cap 5% quarterly weight at maximum, and no cap for number of stocks.																				
CG Score by Thai Institute of Directors Association (Thai IOD)	An indicator of CG strength in sustainable development, measured annually by the Thai IOD, with support from the Stock Exchange of Thailand (SET). The results are from the perspective of a third party, not an evaluation of operations.	Scores are rated in six categories: 5 for Excellent (90-100), 4 for Very Good (80-89), 3 for Good (70-79), 2 for Fair (60-69), 1 for Pass (60-69), and not rated for scores below 50. Weightings include: 1) the rights; 2) and equitable treatment of shareholders (weight 25% combined); 3) the role of stakeholders (25%); 4) disclosure & transparency (15%); and 5) board responsibilities (35%).																				
AGM level By Thai Investors Association (TIA) with support from the SEC	It quantifies the extent to which shareholders' rights and equitable treatment are incorporated into business operations and information is transparent and sufficiently disclosed. All form important elements of two out of five the CG components to be evaluated annually. The assessment criteria cover AGM procedures before the meeting (45%), at the meeting date (45%), and after the meeting (10%). <i>(The first assesses 1) advance circulation of sufficient information for voting; and 2) facilitating how voting rights can be exercised. The second assesses 1) the ease of attending meetings; 2) transparency and verifiability; and 3) openness for Q&A. The third involves the meeting minutes that should contain discussion issues, resolutions and voting results.)</i>	The scores are classified into four categories: 5 for Excellent (100), 4 for Very Good (90-99), 3 for Fair (80-89), and not rated for scores below 79.																				
Thai CAC By Thai Private Sector Collective Action Against Corruption (CAC)	The core elements of the Checklist include corruption risk assessment, establishment of key controls, and the monitoring and developing of policies. The Certification is good for three years. <i>(Companies deciding to become a CAC certified member start by submitting a Declaration of Intent to kick off an 18-month deadline to submit the CAC Checklist for Certification, including risk assessment, in place of policy and control, training of managers and employees, establishment of whistleblowing channels, and communication of policies to all stakeholders.)</i>	The document will be reviewed by a committee of nine professionals. A passed Checklist will move for granting certification by the CAC Council approvals whose members are twelve highly respected individuals in professionalism and ethical achievements.																				
Morningstar Sustainalytics	The Sustainalytics' ESG risk rating provides an overall company score based on an assessment of how much of a company's exposure to ESG risk is unmanaged. <i>Sources to be reviewed include corporate publications and regulatory filings, news and other media, NGO reports/websites, multi-sector information, company feedback, ESG controversies, issuer feedback on draft ESG reports, and quality & peer reviews.</i>	A company's ESG risk rating score is the sum of unmanaged risk. The more risk is unmanaged, the higher ESG risk is scored. <table><tr><th>NEGL</th><th>Low</th><th>Medium</th><th>High</th><th>Severe</th></tr><tr><td>0-10</td><td>10-20</td><td>20-30</td><td>30-40</td><td>40+</td></tr></table>	NEGL	Low	Medium	High	Severe	0-10	10-20	20-30	30-40	40+										
NEGL	Low	Medium	High	Severe																		
0-10	10-20	20-30	30-40	40+																		
ESG Book	The ESG score identifies sustainable companies that are better positioned to outperform over the long term. The methodology considers the principle of financial materiality including information that significantly helps explain future risk-adjusted performance. Materiality is applied by over-weighting features with higher materiality and rebalancing these weights on a rolling quarterly basis.	The total ESG score is calculated as a weighted sum of the features scores using materiality-based weights. The score is scaled between 0 and 100 with higher scores indicating better performance.																				
MSCI	MSCI ESG ratings aim to measure a company's management of financially relevant ESG risks and opportunities. It uses a rules-based methodology to identify industry leaders and laggards according to their exposure to ESG risks and how well they manage those risks relative to peers. <table><tr><td>AAA</td><td>8.571-10.000</td><td rowspan="3">Leader:</td><td rowspan="3">leading its industry in managing the most significant ESG risks and opportunities</td></tr><tr><td>AA</td><td>7.143-8.570</td></tr><tr><td>A</td><td>5.714-7.142</td></tr><tr><td>BBB</td><td>4.286-5.713</td><td rowspan="3">Average:</td><td rowspan="3">a mixed or unexceptional track record of managing the most significant ESG risks and opportunities relative to industry peers</td></tr><tr><td>BB</td><td>2.857-4.285</td></tr><tr><td>B</td><td>1.429-2.856</td></tr><tr><td>CCC</td><td>0.000-1.428</td><td>Laggard:</td><td>lagging its industry based on its high exposure and failure to manage significant ESG risks</td></tr></table>		AAA	8.571-10.000	Leader:	leading its industry in managing the most significant ESG risks and opportunities	AA	7.143-8.570	A	5.714-7.142	BBB	4.286-5.713	Average:	a mixed or unexceptional track record of managing the most significant ESG risks and opportunities relative to industry peers	BB	2.857-4.285	B	1.429-2.856	CCC	0.000-1.428	Laggard:	lagging its industry based on its high exposure and failure to manage significant ESG risks
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CCC	0.000-1.428	Laggard:	lagging its industry based on its high exposure and failure to manage significant ESG risks																			
Moody's ESG solutions	Moody's assesses the degree to which companies take into account ESG objectives in the definition and implementation of their strategy policies. It believes that a company integrating ESG factors into its business model and relatively outperforming its peers is better positioned to mitigate risks and create sustainable value for shareholders over the medium to long term.																					
Refinitiv ESG rating	Designed to transparently and objectively measure a company's relative ESG performance, commitment and effectiveness across 10 main themes, based on publicly available and auditable data. The score ranges from 0 to 100 on relative ESG performance and insufficient degree of transparency in reporting material ESG data publicly. <i>(Score ratings are 0 to 25 = poor; >25 to 50 = satisfactory; >50 to 75 = good; and >75 to 100 = excellent.)</i>																					
S&P Global	The S&P Global ESG Score is a relative score measuring a company's performance on and management of ESG risks, opportunities, and impacts compared to its peers within the same industry classification. The score ranges from 0 to 100.																					
Bloomberg	ESG Score	Bloomberg score evaluating the company's aggregated Environmental, Social and Governance (ESG) performance. The score is based on Bloomberg's view of ESG financial materiality. The score is a weighted generalized mean (power mean) of Pillar Scores, where the weights are determined by the pillar priority ranking. Values range from 0 to 10; 10 is the best.																				
Bloomberg	ESG Disclosure Score	Disclosure of a company's ESG used for Bloomberg ESG score. The score ranges from 0 for none to 100 for disclosure of every data point, measuring the amount of ESG data reported publicly, and not the performance on any data point.																				

Rating regarding the sustainable development of Thai listed companies, both on the SET and MAI, are publicly available on the website of the Securities and Exchange Commission of Thailand (SEC). Currently, ratings available are 1) "**CG Score**"; 2) "**AGM Level**"; 3) "**Thai CAC**"; and 4) **THSI**. The ratings are updated on an annual basis. FSSIA does not confirm nor certify the accuracy of such ratings.

Source: FSSIA's compilation

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

Sureeporn Teewasuwet FSS International Investment Advisory Securities Co., Ltd

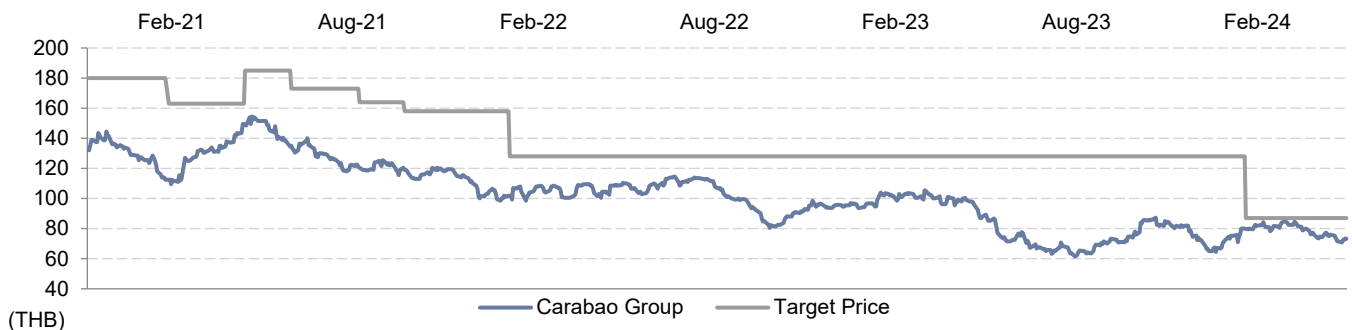
The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s) was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed herein.

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History of change in investment rating and/or target price

Carabao Group (CBG TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
22-Feb-2021	BUY	180.00	16-Aug-2021	BUY	173.00	21-Feb-2022	BUY	128.00
30-Apr-2021	BUY	163.00	14-Oct-2021	BUY	164.00	20-Nov-2023	HOLD	87.00
07-Jul-2021	BUY	185.00	22-Nov-2021	BUY	158.00			

Sureeporn Teewasuwet started covering this stock from 20-Nov-2023

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Carabao Group	CBG TB	THB 73.25	BUY	Downside risks to our P/E-based TP are 1) a slower-than-expected recovery in consumption; 2) higher competition in the domestic energy drink market; 3) a potential rise in packaging and raw material costs; and 4) regulatory risks from domestic and international markets.

Source: FSSIA estimates

Additional Disclosures

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finansia Syrus Securities Public Company Limited.

All share prices are as at market close on 16-Feb-2024 unless otherwise stated.

RECOMMENDATION STRUCTURE

Stock ratings

Stock ratings are based on absolute upside or downside, which we define as $(\text{target price}^* - \text{current price}) / \text{current price}$.

BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

Industry Recommendations

Overweight. The analyst expects the fundamental conditions of the sector to be positive over the next 12 months.

Neutral. The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months.

Underweight. The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

Country (Strategy) Recommendations

Overweight (O). Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Neutral (N). Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Underweight (U). Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.