**EQUITY RESEARCH - RESULTS FLASH** 











TARGET PRICE	THB56.80
CLOSE	THB47.25
UP/DOWNSIDE	+20.2%
TD ve CONSENSUS	9 90/

# 3Q23 results at first glance

# 3Q23 results in line: Expect to be peak quarter of the year

# **Highlights**

- TOP reported a net profit of THB10.8b (a difference of +THB9.7b q-q and +THB10.8b y-y) in line with estimates. The results were significantly improved both q-q and y-y. This mainly came from the strong refinery GRM which more than offset the weak aromatics and lube base performances due to softer product spreads q-q. Thus, the company reported a 3Q23 marketing GIM at USD13.6/bbl (+USD7.5/bbl q-q and +USD4.8/bbl y-y). The increase was driven by an improved market GRM of USD12.4/bbl (+USD7.9/bbl q-q and +USD5.7/bbl y-y), while the aromatics and lube base GIMs were weaker by USD0.2/bbl and USD0.3/bbl q-q, respectively. If we include a stock gain of USD9.8/bbl (~THB9.6b), the accounting GIM would be at USD23.3/bbl (+USD19.2/bbl q-q and +USD24.0/bbl y-y).
- 3Q23 EBITDA showed a hefty increase to THB18.9b (+THB14.4b q-q and +THB19.5b y-y). If we exclude extra items of 1) stock gain (THB9.6b); 2) hedging loss (THB4.5b); 3) inventory write-down (THB1.7b; and 4) deferred tax expense (THB2.7b), 3Q23 core profit will be at THB10.5b (+257% q-q and +91% y-y). 9M23 net profit is at 88% of our 2023E earnings.
- Expect no significant impact from oil spill-related expense going forward, but the reopening of the SBM might be delayed. The company guided that it recorded only THB0.16b for the clean-up costs (THB0.08b) and provision for pollution and third-party liability (THB0.07b), and expects no significant related expenses going forward. However, the timeline of the reopening of the Single-Buoy Mooring 2 (SBM-2) might be delayed for a while as time is needed for the investigation and approval from the Marine Department. Compared to the previous similar case, we expect SBM-2 could reopen in 2025.
- Softer 4Q23 outlook. With an increase in crude premiums coupled with weaker petroleum product spreads across all products q-q, we expect to see weaker earnings in 4Q23. In addition, we estimate that the 4Q23 oil price will just slightly increase q-q; thus, a lower stock gain q-q is expected.
- Maintain BUY on TOP with TP of THB56.8/share. The share price is currently trading at an attractive valuation below book value.
   Moreover, we believe TOP has a bright medium to long-term outlook from the ease of new supply in the petrochemical business.

# **KEY STOCK DATA**

YE Dec (THB m)	2022	2023E	2024E	2025E
Revenue	529,589	451,706	461,321	572,611
Net profit	32,668	18,571	13,280	18,801
EPS (THB)	15.29	8.31	5.94	8.42
vs Consensus (%)	-	11.0	(8.0)	(9.3)
EBITDA	52,014	33,641	24,384	33,899
Recurring net profit	32,668	18,771	13,080	18,800
Core EPS (THB)	15.29	8.40	5.86	8.42
EPS growth (%)	147.9	(45.0)	(30.3)	43.7
Core P/E (x)	3.1	5.6	8.1	5.6
Dividend yield (%)	7.8	8.8	6.3	8.9
EV/EBITDA (x)	4.2	5.5	7.7	5.7
Price/book (x)	0.7	0.6	0.6	0.6
Net debt/Equity (%)	71.0	45.7	45.9	45.1
ROE (%)	23.6	11.7	7.8	10.6



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	1.1	(7.4)	(17.5)
Relative to country (%)	3.0	(0.4)	(4.6)
Mkt cap (USD m)			2,965
3m avg. daily turnover (USD m)			20.2
Free float (%)			52
Major shareholder		PTT	plc. (48%)
12m high/low (THB)		6	0.25/42.25
Issued shares (m)			2,234.00

Sources: Bloomberg consensus; FSSIA estimates



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# Financial key performance

Exhibit 1: 3Q23 results summary

	3Q22	2Q23		3Q23	
	(THB m)	(THB m)	(THB m)	(q-q%)	(y-y%)
Revenue	127,901	108,662	124,206	14.3	(2.9)
Operating costs	(131,685)	(103,310)	(100,284)	(2.9)	(23.8)
EBITDA	(568)	4,618	18,973	310.8	>100%
EBITDA margin (%)	(0.4)	4.2	15.3	nm	nm
Depn & amort.	(1,850)	(1,286)	(1,388)	8.0	(25.0)
EBIT	899	1,700	14,600	758.9	1,524.5
Interest expense	(940)	(1,081)	(1,032)	(4.5)	9.9
Interest & invt inc	260	279	317	13.5	21.9
Associates' contrib	(294)	16	(49)	(401.6)	(83.2)
Exceptionals	3,216	(734)	(4,949)	574.1	(253.9)
Pretax profit	3,141	180	8,886	4,838.5	182.9
Tax	156	523	(2,680)	(612.0)	(1,821.2)
Tax rate (%)	(5.0)	(290.8)	30.2	nm	nm
Minority interests	(103)	(25)	(60)	144.6	(41.6)
Net profit	12	1,117	10,828	869.3	92,380.4
Non-recurring	(5,500)	(1,834)	288	(115.7)	(105.2)
Core profit	5,512	2,951	10,540	257.2	91.2
EPS (THB)	0.01	0.55	5.31	869.3	92,380.4
Core EPS (THB)	2.70	1.27	4.55	257.2	68.5

Sources: TOP; FSSIA estimates

Exhibit 2: Quarterly key earnings drivers

Occarde also bears aladice and	3Q22	2Q23	3Q23E	Chg. q-q	Chg. y-y
Quarterly key drivers	(USD/bbl)	(USD/bbl)	(USD/bbl)	(USD/bbl)	(USD/bbl)
Marketing GIM	8.8	6.1	13.6	7.5	4.8
Refinery - Mkt GRM	6.7	4.5	12.4	7.9	5.7
Aromatic&LAB	0.2	0.9	0.7	(0.2)	0.5
Lube base	1.9	0.8	0.5	(0.3)	(1.4)
Accounting GIM	(0.7)	4.1	23.3	19.2	24.0
Refinery - Acct GRM	(2.9)	2.5	22.2	19.7	25.1
Stock gain/loss	(9.6)	(2.0)	9.8	11.8	19.4
Crude premium	10.5	2.8	1.8	(1.0)	(8.7)
Diesel-Dubai	35.2	14.6	26.9	12.3	(8.3)
Gasoline-Dubai	13.2	16.6	18.9	2.3	5.7
Refinery run rate (%)	104	113	110		
PX-ULG95 (USD/t)	152	228	175	(53.4)	22.8
BZ-ULG95 (USD/t)	42	71	1	(69.5)	(40.9)

Source: TOP

# **Financial Statements**

Thai Oil

Profit and Loss (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Revenue	345,496	529,589	451,706	461,321	572,611
Cost of goods sold	(319,555)	(481,137)	(421,822)	(440,823)	(547,645)
Gross profit	25,941	48,452	29,884	20,499	24,966
Other operating income	· <u>-</u>	-	-	-	-
Operating costs	(3,056)	(4,182)	(3,763)	(3,718)	(573)
Operating EBITDA	30,309	52,014	33,641	24,384	33,899
Depreciation	(7,424)	(7,744)	(7,520)	(7,603)	(9,506)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	22,885	44,270	26,121	16,781	24,393
Net financing costs	(9,523)	(1,733)	(3,561)	(1,453)	(1,345)
Associates	1,675	(513)	300	1,000	1,000
Recurring non-operating income	1,675	(513)	300	1,000	1,000
Non-recurring items	0	Ò	(200)	200	1
Profit before tax	15,037	42,024	22,660	16,528	24,049
Tax	(2,034)	(8,918)	(3,852)	(2,810)	(4,810)
Profit after tax	13,003	33,106	18,807	13,718	19,239
Minority interests	(425)	(438)	(236)	(438)	(438)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	12,578	32,668	18,571	13,280	18,801
Non-recurring items & goodwill (net)	0	0	200	(200)	(1)
Recurring net profit	12,578	32,668	18,771	13,080	18,800
Per share (THB)	,, ,	,,,,,,,	-,	-,	-,
Recurring EPS *	6.17	15.29	8.40	5.86	8.42
Reported EPS	6.17	15.29	8.31	5.94	8.42
DPS	2.60	3.70	4.16	2.97	4.21
Diluted shares (used to calculate per share data)	2,040	2,137	2,234	2,234	2,234
Growth	_,	_,	_,	_,,	_,_,_,
Revenue (%)	39.4	53.3	(14.7)	2.1	24.1
Operating EBITDA (%)	nm	71.6	(35.3)	(27.5)	39.0
Operating EBIT (%)	nm	93.4	(41.0)	(35.8)	45.4
Recurring EPS (%)	nm	147.9	(45.0)	(30.3)	43.7
Reported EPS (%)	nm	147.9	(45.6)	(28.5)	41.6
Operating performance					
Gross margin inc. depreciation (%)	7.5	9.1	6.6	4.4	4.4
Gross margin exc. depreciation (%)	9.7	10.6	8.3	6.1	6.0
Operating EBITDA margin (%)	8.8	9.8	7.4	5.3	5.9
Operating EBIT margin (%)	6.6	8.4	5.8	3.6	4.3
Net margin (%)	3.6	6.2	4.2	2.8	3.3
Effective tax rate (%)	13.5	21.2	17.0	17.0	20.0
Dividend payout on recurring profit (%)	42.2	24.2	49.5	50.8	50.0
Interest cover (X)	2.6	25.2	7.4	12.2	18.9
Inventory days	36.3	36.6	47.7	45.0	41.0
Debtor days	19.1	18.0	20.7	18.1	16.5
Creditor days	19.0	37.5	52.6	38.5	35.1
Operating ROIC (%)	10.0	16.2	9.6	6.0	8.1
ROIC (%)	8.1	11.5	7.5	5.2	6.9
ROE (%)	10.6	23.6	11.7	7.8	10.6
ROA (%)	6.4	8.5	5.1	3.6	4.8
* Pre exceptional, pre-goodwill and fully diluted	0.4	0.5	J. I	3.0	4.0
Revenue by Division (THB m)	2021	2022	2023E	2024E	2025E
Oil refinery	284,019	452,096	370,297	376,145	487,435
Lubed base oil refinery	18,826	20,078	23,926	23,689	23,689
Petrochemical	24,461	20,076 27,752	23,926 27,719	31,724	31,724
Power generation	4,059	6,211	6,211	6,211	6,211
i ower generation	4,009	0,∠11	0,∠11	0,211	0,∠ 1 1

# **Financial Statements**

Thai Oil

That Oil					
Cash Flow (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Recurring net profit	12,578	32,668	18,771	13,080	18,800
Depreciation	7,424	7,744	7,520	7,603	9,506
Associates & minorities	-	-	-	-	-
Other non-cash items	-	-	-	-	-
Change in working capital	(14,344)	30,043	(20,320)	(644)	(7,457)
Cash flow from operations Capex - maintenance	5,659	70,455	5,971	20,039	20,849
Capex - maintenance  Capex - new investment	(33,174)	(28,076)	(14,364)	(14,304)	(14,298)
Net acquisitions & disposals	-	-	-	-	-
Other investments (net)	(7,417)	(8,103)	30,000	(15,000)	(30,000)
Cash flow from investing	(40,591)	(36,179)	15,636	(29,304)	(44,298)
Dividends paid	(5,304)	(8,265)	(9,286)	(6,640)	(9,401)
Equity finance	0	0	0	0	0
Debt finance	(1,219)	(550)	(16,357)	(6,551)	(21,551)
Other financing cash flows Cash flow from financing	17,908 <b>11,384</b>	(11,581) <b>(20,396)</b>	25,979 <b>336</b>	14,829 <b>1,638</b>	32,390 <b>1,439</b>
Non-recurring cash flows	-	(20,000)	-	-	
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	(23,548)	13,880	21,944	(7,627)	(22,010)
Free cash flow to firm (FCFF)	(31,337.86)	38,136.16	25,381.84	(5,577.04)	(19,846.50)
Free cash flow to equity (FCFE)	(18,244.02)	22,145.45	31,229.27	(987.46)	(12,609.45)
Per share (THB)					
FCFF per share	(14.03)	17.07	11.36	(2.50)	(8.88)
FCFE per share	(8.17)	9.91	13.98	(0.44)	(5.64)
Recurring cash flow per share	9.80	18.91	11.77	9.26	12.67
Balance Sheet (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Tangible fixed assets (gross)	320,167	355,988	370,352	384,656	398,954
Less: Accumulated depreciation	(141,768)	(149,512)	(157,033)	(164,636)	(174,142)
Tangible fixed assets (net)	178,399	206,476	213,319	220,020	224,812
Intangible fixed assets (net)	0	0	0	0	0
Long-term financial assets	-	<u>-</u>	-	-	-
Invest. in associates & subsidiaries	55,412	32,603	32,903	33,903	34,903
Cash & equivalents A/C receivable	29,696	43,576 28,759	65,520 22,585	57,893 23,066	35,883 28,631
Inventories	23,415 39,576	55,343	52,853	53,979	67,000
Other current assets	8,552	26,150	8,000	8,000	8,000
Current assets	101,239	153,828	148,959	142,937	139,514
Other assets	27,094	51,674	14,525	21,820	21,136
Total assets	362,144	444,581	409,706	418,680	420,365
Common equity	120,881	156,034	165,320	171,960	181,360
Minorities etc.	2,213	2,623	2,823	3,023	3,223
Total shareholders' equity Long term debt	<b>123,094</b> 163,343	<b>158,657</b> 151,442	<b>168,143</b> 136,635	<b>174,983</b> 131,635	<b>184,583</b> 111,635
Other long-term liabilities	37,230	30,809	30,809	30,809	30,809
Long-term liabilities	200,574	182,250	167,444	162,444	142,444
A/C payable	23,001	74,154	45,171	46,132	57,261
Short term debt	2,142	4,776	5,712	6,648	7,583
Other current liabilities	13,334	24,743	20,000	25,000	25,000
Current liabilities	38,476	103,673	70,882	77,780	89,844
Total liabilities and shareholders' equity	362,144	444,581	406,469	415,206	416,872
Net working capital	35,209	11,355	18,268	13,913	21,370 302,221
• .	206 111			289,655	
Invested capital	296,114	302,108	279,016		002,22.
Invested capital  * Includes convertibles and preferred stock which is beir		302,108	279,016		
Invested capital  * Includes convertibles and preferred stock which is beir  Per share (THB)	ng treated as debt				
Invested capital  * Includes convertibles and preferred stock which is beir  Per share (THB)  Book value per share	ng treated as debt	69.85	74.01	76.98	81.19
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share	ng treated as debt			76.98 76.98	
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share  Financial strength	59.25 59.25	69.85 69.85	74.01 74.01	76.98	81.19 81.19
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/equity (%)	59.25 59.25	69.85 69.85 71.0	74.01 74.01 45.7	76.98 45.9	81.19 81.19 45.1
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)	59.25 59.25 110.3 37.5	69.85 69.85 71.0 25.3	74.01 74.01 45.7 18.8	76.98 45.9 19.2	81.19 81.19 45.1 19.8
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)	59.25 59.25	69.85 69.85 71.0	74.01 74.01 45.7	76.98 45.9	81.19 81.19 45.1
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)	59.25 59.25 59.25 110.3 37.5 2.6 2.6	69.85 69.85 71.0 25.3 1.5 30.0	74.01 74.01 45.7 18.8 2.1 13.8	76.98 45.9 19.2 1.8 10.2	81.19 81.19 45.1 19.8 1.6 2.3
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Invested capital  * Includes convertibles and preferred stock which is being  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Recurring P/E @ target price (x) *	59.25 59.25 59.25 110.3 37.5 2.6 2.6 2021	69.85 69.85 71.0 25.3 1.5 30.0	74.01 74.01 45.7 18.8 2.1 13.8	76.98 45.9 19.2 1.8 10.2 2024E	81.19 81.19 45.1 19.8 1.6 2.3 2025E
Invested capital  * Includes convertibles and preferred stock which is being  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)	59.25 59.25 59.25 110.3 37.5 2.6 2.6 2021 7.7 9.2	69.85 69.85 71.0 25.3 1.5 30.0 2022 3.1 3.7	74.01 74.01 45.7 18.8 2.1 13.8 2023E 5.6 6.8	76.98 45.9 19.2 1.8 10.2 2024E 8.1 9.7	81.19 81.19 45.1 19.8 1.6 2.3 2025E 5.6 6.7
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)  Dividend yield (%)	59.25 59.25 59.25 110.3 37.5 2.6 2.6 2021 7.7 9.2 7.7	69.85 69.85 71.0 25.3 1.5 30.0 2022 3.1 3.7 3.1	74.01 74.01 45.7 18.8 2.1 13.8 2023E 5.6 6.8 5.7	76.98 45.9 19.2 1.8 10.2 2024E 8.1 9.7 7.9	81.19 81.19 45.1 19.8 1.6 2.3 2025E 5.6 6.7 5.6
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)  Dividend yield (%)  Price/book (x)  Price/tangible book (x)	59.25 59.25 59.25 110.3 37.5 2.6 2.6 2021 7.7 9.2 7.7 5.5 0.8 0.8	69.85 69.85 71.0 25.3 1.5 30.0 2022 3.1 3.7 3.1 7.8 0.7	74.01 74.01 45.7 18.8 2.1 13.8 2023E 5.6 6.8 5.7 8.8 0.6 0.6	76.98  45.9 19.2 1.8 10.2  2024E  8.1 9.7 7.9 6.3 0.6 0.6	81.19 81.19 45.1 19.8 1.6 2.3 2025E 5.6 6.7 5.6 8.9 0.6
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)  Dividend yield (%)  Price/book (x)  Price/tangible book (x)  EV/EBITDA (x) **	59.25 59.25 59.25 110.3 37.5 2.6 2.6 2021 7.7 9.2 7.7 5.5 0.8 0.8 7.7	69.85 69.85 71.0 25.3 1.5 30.0 2022 3.1 3.7 3.1 7.8 0.7 0.7 4.2	74.01 74.01 45.7 18.8 2.1 13.8 2023E 5.6 6.8 5.7 8.8 0.6 0.6 5.5	76.98  45.9 19.2 1.8 10.2  2024E  8.1 9.7 7.9 6.3 0.6 0.6 7.7	81.19 81.19 45.1 19.8 1.6 2.3 2025E 5.6 6.7 5.6 8.9 0.6 0.6 5.7
Invested capital  * Includes convertibles and preferred stock which is bein  Per share (THB)  Book value per share  Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)  Dividend yield (%)  Price/book (x)  Price/tangible book (x)	59.25 59.25 59.25 110.3 37.5 2.6 2.6 2021 7.7 9.2 7.7 5.5 0.8 0.8	69.85 69.85 71.0 25.3 1.5 30.0 2022 3.1 3.7 3.1 7.8 0.7	74.01 74.01 45.7 18.8 2.1 13.8 2023E 5.6 6.8 5.7 8.8 0.6 0.6	76.98  45.9 19.2 1.8 10.2  2024E  8.1 9.7 7.9 6.3 0.6 0.6	81.19 81.19 45.1 19.8 1.6 2.3 2025E 5.6 6.7 5.6 8.9 0.6 0.6

Sources: Thai Oil; FSSIA estimates

# Thai Oil (TOP TB)

# FSSIA ESG rating ★ ★ ★ ★

# Exhibit 3: FSSIA ESG score implication

84.35 /100

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 4: ESG – peer comparison

	FSSIA			Dome	estic ratings			Global ratings						Bloomberg	
	ESG score	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
BCP	77.54		Υ	Υ	5.00	5.00	Certified	Medium	56.04	AA		79.53	83.00	6.34	69.77
ESSO	30.81				4.00	5.00		Severe	46.89			45.86	17.00	2.06	34.92
IRPC	86.08	Y	Y	Υ	5.00	5.00	Certified	Medium	59.62	Α		80.95	76.00	6.72	
SPRC	44.50				5.00	5.00	Certified	High	55.86			36.91	28.00	3.77	54.54
TOP	84.35	Υ	Υ	Υ	5.00	5.00	Certified	Medium	52.10	BBB	38.00	75.83	88.00	6.81	

Sources: <u>SETTRADE.com</u>; FSSIA's compilation

Exhibit 5: ESG score by Bloomberg

FY ending Dec 31	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
ESG financial materiality scores - ESG score	5.57	6.10	6.16	6.29	6.30	6.26	6.57	6.81
BESG environmental pillar score	4.71	5.60	5.87	6.11	6.07	5.99	6.91	_
BESG social pillar score	7.44	7.45	7.34	7.49	7.58	7.60	7.07	_
BESG governance pillar score	5.30	5.68	5.55	5.47	5.50	5.46	5.54	_
ESG disclosure score	67.94	68.41	69.00	70.73	69.00	69.00	67.01	_
Environmental disclosure score	72.61	74.03	75.78	75.78	72.40	72.40	72.40	_
Social disclosure score	43.77	43.77	43.77	48.97	47.16	47.16	41.17	_
Governance disclosure score	87.36	87.36	87.36	87.36	87.36	87.36	87.36	_
Environmental								
Emissions reduction initiatives	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Climate change policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Climate change opportunities discussed	No	No	No	No	No	No	No	No
Risks of climate change discussed	No	No	Yes	Yes	Yes	Yes	Yes	No
GHG scope 1	2,540	3,650	3,400	3,490	3,310	3,020	3,150	3,264
GHG scope 2 location-based	0	0	0	0	0	0	0	0
GHG Scope 3	_	2,298,400	2,197,900	2,687,800	2,309,200	1,372,500	1,599,800	27,255
Carbon per unit of production	_	_	0.22	0.23	0.23	0.22	0.23	_
Biodiversity policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Energy efficiency policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Total energy consumption	11,945	17,641	8,169	8,778	8,528	7,639	15,636	12,977
Renewable energy use	_	_	_	_	_	_	_	_
Electricity used	967	988	1,027	1,054	987	972	980	1,059
Fuel used - natural gas	505,790	857,597	937,470	1,014,100	960,412	881,360	889,680	34,849,400

Sources: Bloomberg; FSSIA's compilation

Thai Oil TOP TB Kwanwaree Apichartsataporn

**Exhibit 6: ESG score by Bloomberg** (cont.)

FY ending Dec 31	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Fuel used - crude oil/diesel	No	No	No	No	No	No	No	No
Waste reduction policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hazardous waste	5	6	4	13	12	8	5	10
Total waste	5	6	5	13	15	11	6	11
Waste recycled	2	1	1	1	7	4	1	2
Waste sent to landfills	0.14	0.19	0.12	0.23	0.43	0.00	0.00	0.00
Environmental supply chain management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Water policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Water consumption	2,880.00	3,810.00	4,130.00	4,340.00	4,700.00	3,340.00	3,880.00	3,110.00
Social								
Human rights policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Policy against child labor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Quality assurance and recall policy	No	No	No	No	No	No	No	No
Consumer data protection policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Equal opportunity policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Gender pay gap breakout	No	No	No	No	No	No	No	No
Pct women in workforce	26.11	26.35	26.81	26.48	25.00	24.10	25.00	26.03
Pct disabled in workforce	_	_	_	_	_	_	_	_
Business ethics policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Anti-bribery ethics policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Health and safety policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Lost time incident rate - employees	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.05
Total recordable incident rate - employees	0.09	0.10	0.00	0.00	0.14	0.14	0.07	0.07
Training policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Fair remuneration policy	No	No	No	No	No	No	No	No
Number of employees – CSR	1,409.00	1,434.00	1,447.00	1,482.00	1,637.00	1,749.00	1,799.00	1,851.00
Employee turnover pct	3.62	3.14	3.25	2.91	2.44	2.69	2.72	_
Total hours spent by firm - employee training	122,081.00	85,893.00	71,644.00	105,032.00	124,222.00	94,716.00	103,102.00	124,421.00
Social supply chain management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Governance								
Board size	14	14	14	14	15	15	15	14
No. of independent directors (ID)	7	6	7	6	6	7	8	8
No. of women on board	2	5	4	3	3	3	3	1
No. of non-executive directors on board	13	13	13	13	14	14	14	13
Company conducts board evaluations	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
No. of board meetings for the year	14	13	15	16	12	16	18	18
Board meeting attendance pct	94	93	93	96	96	98	100	99
Board duration (years)	3	3	3	3	3	3	3	3
Director share ownership guidelines	No	No	No	No	No	No	No	No
Age of the youngest director	51	51	53	50	51	52	43	44
Age of the oldest director	65	65	66	69	70	66	67	68
No. of executives / company managers	34	37	35	34	34	34	35	45
No. of female executives	10	11	10	11	10	14	15	15
Executive share ownership guidelines	No	No	No	No	No	No	No	No
Size of audit committee	3	4	3	3	3	4	4	4
No. of ID on audit committee	3	4	3	3	3	4	4	4
Audit committee meetings	7	10	9	7	8	8	9	10
Audit meeting attendance %	95	94	100	95	100	100	100	100
Size of compensation committee	4	3	3	3	3	3	3	3
No. of ID on compensation committee	3	2	2	2	2	2	2	2
No. of compensation committee	6	6	6	5	5	5	4	4
Compensation meeting attendance %	100	100	100	100	100	100	100	100
Size of nomination committee	4	3	3	3	3	3	3	100
	6	<b>3</b>	<b>3</b>	<b>3</b> 5	<b>3</b> 5	<b>3</b> 5	3 4	2
No. of nomination committee meetings	100	100	100	100	100	100	100	
Nomination meeting attendance %  Sustainability governance	100	100	100	100	100	100	100	100

 $Sources: Bloomberg; \ FSSIA's \ compilation$ 

# **Disclaimer for ESG scoring**

ESG score	Methodolog	У			Rating					
The Dow Jones Sustainability ndices ( <u>DJSI</u> ) By S&P Global	process base from the ann Only the top- inclusion.	ed on the comual S&P Glob ranked comp	transparent, rules-based npanies' Total Sustainabil nal Corporate Sustainabili anies within each industr	ity Scores resulting ty Assessment (CSA). y are selected for	Sustainability ESG Score of scoring comp selected from	Assessment less than 45 any are disqu the Eligible		I. Companie Global ESG nstituents of	s with an S&F Score of the h the DJSI indi	nighest ces are
Sustainability investment List (THSI) by The Stock Exchange of Thailand (SET)	managing bu Candidates r conditions: 1 and 2) free fl >15% of paid score of belo executives' v	usiness with tr must pass the ) no irregular oat of >150 sl d-up capital. Sow 70%; 2) ind vrongdoing re	ility in Environmental and ansparency in Governanch preemptive criteria, with trading of the board mem hareholders, and combine come key disqualifying crite dependent directors and for lated to CG, social & env ; and 5) earnings in red for and the combine the c	ce, updated annually. two crucial ibers and executives; ed holding must be teria include: 1) CG ree float violation; 3) ironmental impacts; 4)	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 a					
oy Thai nstitute of Directors Association Thai IOD)	annually by t Thailand (SE	he Thai IOD,	h in sustainable developn with support from the Sto ts are from the perspectiv s.	ck Exchange of	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) an equitable treatment of shareholders (weight 25% combined); 3) the role of stakeholders (25%); 4) disclosure & transparency (15%); and 5) board responsibilities (35%).					-69), ; 2) and role of
AGM level By Thai nvestors Association (TIA) with support from the SEC	treatment are transparent a out of five the assessment the meeting advance circularights can be transparency a	e incorporated and sufficiently e CG compon criteria cover date (45%), a ation of sufficien exercised. The signal verifiability; a	which shareholders' rights d into business operations y disclosed. All form imponents to be evaluated ann AGM procedures before nd after the meeting (10% of information for voting; and 2 econd assesses 1) the ease of and 3) openness for Q&A. The ontain discussion issues, rescu	s and information is ortant elements of two ually. The the meeting (45%), at (6). (The first assesses 1)? facilitating how voting of attending meetings; 2) e third involves the	t )					
Private Sector Collective Action Against Corruption CAC)	establishmer policies. The (Companies de Declaration of Certification, in managers and	nt of key control Certification eciding to becon Intent to kick off including risk ass employees, est	Checklist include corruptions, and the monitoring a is good for three years. The a CAC certified member store and 18-month deadline to subsessment, in place of policy are ablishment of whistleblowing Il stakeholders.)	nd developing of  art by submitting a  mit the CAC Checklist for ad control, training of	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	based on an risk is unmar	assessment on aged. Sources	isk rating provides an ove of how much of a compar s to be reviewed include corpo ther media, NGO reports/webs	ny's exposure to ESG orate publications and			ng score is the he higher ESG		•	The
	information, co		k, ESG controversies, issuer		NEGL	Low	Medium	High	Severe	
					0-10	10-20	20-30	30-40	40+	
ESG Book	positioned to the principle helps explair over-weightin	outperform o of financial m future risk-a	sustainable companies the long term. The meateriality including informations djusted performance. Mat the higher materiality and brity basis.	ethodology considers ation that significantly teriality is applied by	scores using	materiality-ba	culated as a wased weights. To indicating bet	he score is	scaled between	
MSCI			measure a company's mand laggards according to							logy to
	AAA	8.571-10.00	0 Leader:	leading its industry in r	nanaging the most	significant ESA	Frisks and oppor	tunities		
	AA	7.143-8.570	)	rodding ito industry III I		o.grimoant LOC	Σ. Ιοίλο απά υμμυτ			
	Α	5.714-7.142		a mixed or unexception	nal track record of	managing the n	nost significant F	SG risks and o	pportunities rela	ative to
	BBB	4.286-5.713	· ·	industry peers	55.4 511	gg 2.5	gou.i. L	2		0
	BB B	2.857-4.285 1.429-2.856								
	ccc	0.000-1.428	Laggard:	lagging its industry bas	ed on its high expo	sure and failur	e to manage sigr	ificant ESG ris	ks	
loody's ESG olutions	believes that	a company ir	gree to which companies ntegrating ESG factors int or shareholders over the i	to its business model ar	,				0, 1	
Refinitiv ESG ating	based on pul	blicly available	and objectively measure e and auditable data. The ta publicly. (Score ratings a	score ranges from 0 to	100 on relative	ESG perform	nance and insu	fficient degre		
S&P Global			re is a relative score mea				nt of ESG risks	s, opportuniti	es, and impa	cts
Bloomberg	ESG Score	<u> </u>	Bloomberg score evaluates score is based on Bloom of Pillar Scores, where the score is the score in the score is the score is the score is the score is the score in the score is the score	ating the company's agg	regated Enviror ancial materialit	mental, Soc y. The score	is a weighted o	jeneralized n	nean (power r	nean)
Bloomberg	ESG Disclos	ure Score	Disclosure of a compan	via ECC wood for Bloom	· · · · · · · · · · · · · · · · · · · ·	Th	ranga fram O		OO for disales	ure of

Source: FSSIA's compilation

#### **GENERAL DISCLAIMER**

# ANALYST(S) CERTIFICATION

#### Kwanwaree Apichartsataporn 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



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
18-Jan-2021 30-Jul-2021	BUY BUY	74.00 67.00	29-Apr-2022 01-Jun-2023	BUY BUY	70.00 61.80	05-Sep-2023	BUY	56.80

Kwanwaree Apichartsataporn started covering this stock from 01-Jun-2023

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Thai Oil	TOP TB	THB 47.25	BUY	Downside risks to our P/BV-based TP are 1) a sharp fall in oil prices; 2) weaker demand for refined oil products; 3) GRM volatility; 4) unplanned refinery shutdowns; and 5) longer-than-expected maintenance of SBM-2.

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 08-Nov-2023 unless otherwise stated.

## RECOMMENDATION STRUCTURE

# Stock ratings

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