

THAI OIL TOP TB

THAILAND / ENERGY

BUY

UNCHANGED

TARGET PRICE	THB61.80
CLOSE	THB46.25
UP/DOWNSIDE	+33.6%
PRIOR TP	THB61.80
CHANGE IN TP	UNCHANGED
TP vs CONSENSUS	+3.5%

Weak 2Q23E, brighter 2H23 outlook

- We expect TOP to post a 2Q23 net profit of THB0.36b (-92% q-q); the bottom of the year mainly from the drop in marketing GRM.
- Expect a brighter earnings outlook in 2H23, driven by refined product spreads recovering on higher Chinese economic activity.
- We maintain our BUY rating and TP of THB61.8/share.

2Q23E net profit of THB0.36b – the bottom of the year

We estimate TOP's 2Q23 accounting GIM to be ~USD4.0/bbl (-USD4.3/bbl q-q). Given stable operating costs, 2Q23 EBITDA should be ~THB2.7b (-67% q-q). Therefore, we expect the company to report a weak 2Q23 net profit of THB0.36b (-92% q-q). The decrease would mainly be due to the falling market GRM coupled with a stock loss (~THB2.0b) in 2Q23, while other business units should be flat or slightly weaker. Moreover, given the USD appreciation in the quarter, we expect the company to record an FX loss of around 1.1b. However, with weaker oil prices, we expect a hedging gain of ~THB0.5b to partly offset these losses. Hence, we estimate a 2Q23 core profit of THB2.4b (-72% q-q and -89% y-y). 1H23E accounts for 35% of FSSIA's 2023E net profit.

Refinery business – weaker from middle distillate spreads

We estimate a sharp drop in market GRM in 2Q23 to USD4.3/bbl from USD10/bbl in 1Q23. This is mainly from the weak middle distillate spreads (diesel and jet, ~53% of its total production). The 2Q23 diesel-Dubai spread was down to USD14.6/bbl (-USD10.6/bbl q-q), and the 2Q23 jet-diesel spread decreased to USD14.0/bbl (-USD12.5/bbl q-q). Meanwhile, the gasoline-Dubai spread was slightly weaker. Given the falling oil price q-q, we think the stock loss will be ~USD2/bbl. Hence, the 2Q23 accounting GRM would be at USD2.3/bbl. We expect the 2Q23 refinery run rate to operate at a high level of ~112% in 2Q23.

Aromatics to stay flat q-q, with a slightly weaker lube base

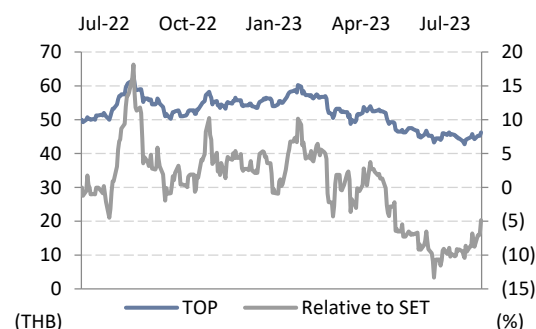
For aromatics, 2Q23 PX margins have improved, but were offset by a weaker BZ margin. We forecast a flat q-q aromatics GIM at USD0.9/bbl. We expect the lube base GIM to drop from USD1.1/bbl in 1Q23 to USD0.8/bbl in 2Q23 on weaker product spreads for bitumen and 500SN.

Better 2H23 outlook – maintain BUY rating, TP is at THB61.8/share

We maintain BUY and our TP of THB61.80/share. We reiterate our view that refinery will bottom out in 2Q23 and start to recover in 2H23 from a refined product spread recovery, especially for gasoline and diesel, because of greater Chinese economic activity and a lower Chinese export quota in 2H23. We also expect a lower crude premium h-h and no significant stock loss in 2H23 due to the tight global crude oil supply.

KEY STOCK DATA

YE Dec (THB m)	2022	2023E	2024E	2025E
Revenue	529,589	447,275	459,496	572,939
Net profit	32,668	14,048	14,866	18,763
EPS (THB)	15.29	6.29	6.65	8.40
vs Consensus (%)	-	2.8	10.0	(5.4)
EBITDA	52,014	27,213	27,327	37,921
Recurring net profit	32,668	14,048	14,866	18,762
Core EPS (THB)	15.29	6.29	6.65	8.40
Chg. In EPS est. (%)	-	-	-	-
EPS growth (%)	147.9	(58.9)	5.8	26.2
Core P/E (x)	3.0	7.4	6.9	5.5
Dividend yield (%)	8.0	6.8	7.2	9.1
EV/EBITDA (x)	4.2	8.1	6.9	4.2
Price/book (x)	0.7	0.6	0.6	0.6
Net debt/Equity (%)	71.0	69.1	47.7	29.2
ROE (%)	23.6	8.8	8.9	10.7



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	0.5	(11.9)	(8.9)
Relative to country (%)	5.1	(6.1)	(5.6)
Mkt cap (USD m)	2,989		
3m avg. daily turnover (USD m)	12.1		
Free float (%)	52		
Major shareholder	PTT plc. (48%)		
12m high/low (THB)	63.25/42.25		
Issued shares (m)	2,234.00		

Sources: Bloomberg consensus; FSSIA estimates


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Investment thesis

We believe the refinery and petrochemical business will recover in 2H23, led by the acceleration of economic activity in China, which should boost diesel and petrochemical product demand and drive product spreads higher.

In addition, as a low cost structure refinery, we expect TOP to stand out based on its earnings resilience relative to its local refinery peers during this shoulder period as refinery spreads normalise and the petrochemical business begins to recover.

Long-term, we anticipate that its Clean Fuel Project (CFP) project (COD in 1Q25) will allow TOP to maximise profits from greater feedstock flexibility and better yields of higher value middle distillate products. In addition, its 15.38% stake in the expansion project of Chandra Asri Petrochemical (CAP2), an olefin investment in Indonesia (COD in 2026), should support and diversify TOP's earnings.

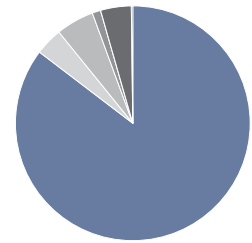
Company profile

TOP operates the largest single-site refinery in Thailand, which is one of the most complex refineries in the Asia-Pacific region with a nameplate capacity of 275 kbd. It also undertakes power generation, petrochemical production, and oil and petrochemical product transportation.

www.thaioilgroup.com

Principal activities (revenue, 2022)

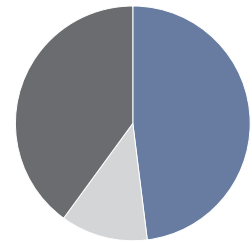
- Oil refinery - 85.4 %
- Lubed base oil refinery - 3.8 %
- Petrochemical - 5.2 %
- Power generation - 1.2 %
- Marine transportation services - 0.0 %



Source: Thai Oil

Major shareholders

- PTT plc. - 48.0 %
- Thai NVDR - 12.0 %
- Others - 40.0 %



Source: Thai Oil

Catalysts

Potential catalysts are 1) a faster-than-expected resumption of economic activity in China in 2H23, which would boost diesel and aromatics product demand and send product spreads higher; 2) lower-than-expected crude premiums; and 3) a sharp rise in oil prices.

Risks to our call

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; and 4) unplanned refinery shutdowns.

Event calendar

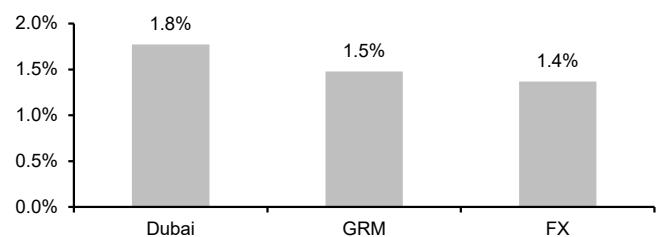
Date	Event
9 Aug 2023	2Q23 results announcement
17 Aug 2023	2Q23 analyst meeting
23 Aug 2023	2Q23 Opportunity Day
20 Nov 2023	3Q23 analyst meeting
22 Nov 2023	3Q23 Opportunity Day

Key assumptions

	2021 (USD/bbl)	2022 (USD/bbl)	2023E (USD/bbl)	2024E (USD/bbl)	2025E (USD/bbl)
Marketing GRM	2.2	12.0	6.9	6.7	7.2
Stock gain/loss	4.7	1.0	-	-	-
Accounting GRM	6.9	13.0	6.9	6.7	7.2
Crude premium	1.8	7.1	3.3	1.8	1.4
Diesel-Dubai	6.7	34.3	17.0	13.0	13.0
Gasoline-Dubai	11.1	18.8	17.0	15.0	15.0
Capacity utilisation rate	100%	107%	108%	110%	110%
PX-ULG95	177	124	200	220	260
BZ-ULG95	232	50	104	125	150

Source: TOP, FSSIA estimates

Earnings sensitivity



- For every 1% increase in Dubai, GRM and FX, we estimate 2023 earnings would increase according to the above chart, and vice versa, all else being equal.

Source: FSSIA estimates

Key charts

Exhibit 1: 2Q23 results preview

	2Q22	1Q23	2Q23E		2023E	% of FY in 1H23E	
	(THB m)	(THB m)	(THB m)	(q-q%)	(y-y%)	(THB m)	(%)
Revenue	155,379	116,820	106,769	(8.6)	(31.3)	447,275	50.0
Operating costs	(119,106)	(109,789)	(103,478)	(5.7)	(13.1)	(416,299)	51.2
EBITDA	22,322	8,182	2,691	(67.1)	(87.9)	27,213	40.0
<i>EBITDA margin (%)</i>	14.4	7.0	2.5	<i>nm</i>	<i>nm</i>	6.1	
Depn & amort.	(2,004)	(1,905)	(1,354)	(28.9)	(32.5)	(7,744)	42.1
EBIT	33,925	7,326	1,337	(81.7)	(96.1)	19,469	44.5
Interest expense	(966)	(922)	(870)	(5.6)	(9.9)	(3,774)	47.5
Interest & invt inc	17,492	221	221	-	(98.7)	2,213	20.0
Associates' contrib	(125)	101	10	(90.1)	(108.0)	200	55.4
Exceptionals	(13,951)	1,151	(600)	(152.1)	(95.7)	-	n/a
Pretax profit	36,375	7,876	98	(98.8)	(99.7)	18,108	44.0
Tax	(7,509)	(1,805)	(107)	(94.1)	(98.6)	(3,622)	52.8
<i>Tax rate (%)</i>	20.6	22.9	109.8	<i>nm</i>	<i>nm</i>	20.0	
Minority interests	(123)	(44)	(3)	(92.2)	(97.2)	(438)	10.9
Net profit	25,327	4,554	356	(92.2)	(98.6)	14,048	35.0
Non-recurring	3,698	(4,101)	(2,048)	(50.1)	(155.4)	-	n/a
Core profit	21,629	8,655	2,404	(72.2)	(88.9)	14,048	78.7
EPS (THB)	12.42	2.23	0.17	(92.2)	(98.6)	6.29	
Core EPS (THB)	10.60	3.74	1.04	(72.2)	(90.2)	6.29	

Sources: TOP; FSSIA estimates

Exhibit 2: Key quarterly assumptions

Key assumptions	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23E	Chg. q-q	Chg. y-y
	(USD/bbl)	(USD/bbl)	(USD/bbl)	(USD/bbl)	(USD/bbl)	(USD/bbl)	(USD/bbl)	(USD/bbl)
Marketing GIM	7.6	25.6	8.8	11.1	11.8	6.0	(5.8)	(19.6)
Refinery - Mkt GRM	6.3	24.8	6.7	9.3	9.8	4.3	(5.5)	(20.5)
Aromatics & LAB	0.7	0.0	0.2	0.8	0.9	0.9	0.0	0.9
Lube base	0.6	0.8	1.9	1.0	1.1	0.8	(0.3)	0.0
Accounting GIM	23.6	33.4	(0.7)	1.5	8.3	4.0	(4.3)	(29.4)
Refinery - Acct GRM	22.6	32.9	(2.9)	(0.3)	6.4	2.3	(4.1)	(30.6)
Stock gain/loss	16.2	7.8	(9.6)	(9.7)	(3.6)	(2.0)	1.6	(9.8)
Crude premium	4.0	7.4	10.5	7.0	5.0	2.8	(2.2)	(4.6)
Diesel-Dubai	19.5	43.1	35.2	39.3	25.2	14.6	(10.6)	(28.5)
Gasoline-Dubai	17.8	35.0	13.2	9.4	18.7	16.6	(2.1)	(18.4)
<i>Refinery run rate (%)</i>	<i>109</i>	<i>112</i>	<i>104</i>	<i>103</i>	<i>112</i>	<i>112</i>		
PX-ULG95 (USD/t)	124	44	152	178	193	228	35.3	184.2
BZ-ULG95 (USD/t)	110	23	42	24	89	71	(18.3)	47.6

Sources: TOP; FSSIA estimates

Financial Statements

Thai Oil

Profit and Loss (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Revenue	345,496	529,589	447,275	459,496	572,939
Cost of goods sold	(319,555)	(481,137)	(424,044)	(436,195)	(548,020)
Gross profit	25,941	48,452	23,232	23,301	24,918
Other operating income	-	-	-	-	-
Operating costs	(3,056)	(4,182)	(3,763)	(3,718)	(573)
Operating EBITDA	30,309	52,014	27,213	27,327	37,921
Depreciation	(7,424)	(7,744)	(7,744)	(7,744)	(13,576)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	22,885	44,270	19,469	19,583	24,345
Net financing costs	(9,523)	(1,733)	(1,561)	(1,453)	(1,345)
Associates	1,675	(513)	200	1,000	1,000
Recurring non-operating income	1,675	(513)	200	1,000	1,000
Non-recurring items	0	0	0	0	1
Profit before tax	15,037	42,024	18,108	19,130	24,001
Tax	(2,034)	(8,918)	(3,622)	(3,826)	(4,800)
Profit after tax	13,003	33,106	14,486	15,304	19,201
Minority interests	(425)	(438)	(438)	(438)	(438)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	12,578	32,668	14,048	14,866	18,763
Non-recurring items & goodwill (net)	0	0	0	0	(1)
Recurring net profit	12,578	32,668	14,048	14,866	18,762
Per share (THB)					
Recurring EPS *	6.17	15.29	6.29	6.65	8.40
Reported EPS	6.17	15.29	6.29	6.65	8.40
DPS	2.60	3.70	3.14	3.33	4.20
Diluted shares (used to calculate per share data)	2,040	2,137	2,234	2,234	2,234
Growth					
Revenue (%)	39.4	53.3	(15.5)	2.7	24.7
Operating EBITDA (%)	nm	71.6	(47.7)	0.4	38.8
Operating EBIT (%)	nm	93.4	(56.0)	0.6	24.3
Recurring EPS (%)	nm	147.9	(58.9)	5.8	26.2
Reported EPS (%)	nm	147.9	(58.9)	5.8	26.2
Operating performance					
Gross margin inc. depreciation (%)	7.5	9.1	5.2	5.1	4.3
Gross margin exc. depreciation (%)	9.7	10.6	6.9	6.8	6.7
Operating EBITDA margin (%)	8.8	9.8	6.1	5.9	6.6
Operating EBIT margin (%)	6.6	8.4	4.4	4.3	4.2
Net margin (%)	3.6	6.2	3.1	3.2	3.3
Effective tax rate (%)	13.5	21.2	20.0	20.0	20.0
Dividend payout on recurring profit (%)	42.2	24.2	50.0	50.0	50.0
Interest cover (X)	2.6	25.2	12.6	14.2	18.8
Inventory days	36.3	36.6	47.2	45.2	41.3
Debtor days	19.1	18.0	24.5	25.2	23.0
Creditor days	19.0	37.5	49.2	32.8	30.0
Operating ROIC (%)	10.0	16.2	6.7	6.3	7.7
ROIC (%)	8.1	11.5	5.1	5.3	6.7
ROE (%)	10.6	23.6	8.8	8.9	10.7
ROA (%)	6.4	8.5	3.8	4.1	4.8
* Pre-exceptional, pre-goodwill and fully diluted					
Revenue by Division (THB m)					
Oil refinery	284,019	452,096	364,749	373,992	487,435
Lubed base oil refinery	18,826	20,078	23,926	23,689	23,689
Petrochemical	24,461	27,752	28,838	32,052	32,052
Power generation	4,059	6,211	6,211	6,211	6,211

Sources: Thai Oil; FSSIA estimates

Financial Statements

Thai Oil

Cash Flow (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Recurring net profit	12,578	32,668	14,048	14,866	18,762
Depreciation	7,424	7,744	7,744	7,744	13,576
Associates & minorities	-	-	-	-	-
Other non-cash items	-	-	-	-	-
Change in working capital	(14,344)	30,043	(35,678)	(1,247)	(11,572)
Cash flow from operations	5,659	70,455	(13,886)	21,364	20,766
Capex - maintenance	-	-	-	-	-
Capex - new investment	(33,174)	(28,076)	(12,124)	(12,064)	(12,058)
Net acquisitions & disposals	-	-	-	-	-
Other investments (net)	45,907	(1,454)	30,000	30,000	30,000
Cash flow from investing	12,733	(29,530)	17,876	17,936	17,942
Dividends paid	(5,304)	(8,265)	(7,024)	(7,433)	(9,381)
Equity finance	0	0	0	0	0
Debt finance	(1,219)	(550)	(21,357)	(1,551)	(21,551)
Other financing cash flows	(35,415)	(18,230)	638	1,438	1,439
Cash flow from financing	(41,939)	(27,045)	(27,743)	(7,546)	(29,493)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	(23,548)	13,880	(23,753)	31,754	9,215
Free cash flow to firm (FCFF)	21,985.74	44,785.11	7,764.77	42,987.70	42,310.34
Free cash flow to equity (FCFE)	(18,243.87)	22,145.27	(16,728.84)	39,186.49	18,595.98

Per share (THB)	2021	2022	2023E	2024E	2025E
FCFF per share	9.84	20.05	3.48	19.24	18.94
FCFE per share	(8.17)	9.91	(7.49)	17.54	8.32
Recurring cash flow per share	9.80	18.91	9.76	10.12	14.48

Balance Sheet (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Tangible fixed assets (gross)	320,167	355,988	368,112	380,176	392,234
Less: Accumulated depreciation	(141,768)	(149,512)	(157,256)	(165,001)	(178,577)
Tangible fixed assets (net)	178,399	206,476	210,855	215,175	213,657
Intangible fixed assets (net)	0	0	0	0	0
Long-term financial assets	-	-	-	-	-
Invest. in associates & subsidiaries	55,412	32,603	32,803	33,803	34,803
Cash & equivalents	29,696	43,576	19,823	51,577	60,792
A/C receivable	23,415	28,759	31,309	32,165	40,106
Inventories	39,576	55,343	52,335	53,765	67,039
Other current assets	8,552	26,150	10,000	10,000	10,000
Current assets	101,239	153,828	113,468	147,507	177,936
Other assets	27,094	51,674	32,040	27,405	1,654
Total assets	362,144	444,581	389,166	423,890	428,050
Common equity	120,881	156,034	163,058	170,491	179,873
Minorities etc.	2,213	2,623	2,825	3,025	3,225
Total shareholders' equity	123,094	158,657	165,883	173,516	183,098
Long term debt	163,343	151,442	131,635	131,635	111,635
Other long-term liabilities	37,230	30,809	30,809	56,926	56,926
Long-term liabilities	200,574	182,250	162,444	188,561	168,561
A/C payable	23,001	74,154	38,018	39,057	48,700
Short term debt	2,142	4,776	2,820	2,756	2,692
Other current liabilities	13,334	24,743	20,000	20,000	25,000
Current liabilities	38,476	103,673	60,838	61,813	76,391
Total liabilities and shareholders' equity	362,144	444,581	389,166	423,890	428,050
Net working capital	35,209	11,355	35,626	36,873	43,445
Invested capital	296,114	302,108	311,324	313,256	293,559

* Includes convertibles and preferred stock which is being treated as debt

Per share (THB)	2021	2022	2023E	2024E	2025E
Book value per share	59.25	69.85	72.99	76.32	80.52
Tangible book value per share	59.25	69.85	72.99	76.32	80.52

Financial strength	2021	2022	2023E	2024E	2025E
Net debt/equity (%)	110.3	71.0	69.1	47.7	29.2
Net debt/total assets (%)	37.5	25.3	29.5	19.5	12.5
Current ratio (x)	2.6	1.5	1.9	2.4	2.3
CF interest cover (x)	2.6	30.0	(1.9)	36.3	23.8

Valuation	2021	2022	2023E	2024E	2025E
Recurring P/E (x) *	7.5	3.0	7.4	6.9	5.5
Recurring P/E @ target price (x) *	10.0	4.0	9.8	9.3	7.4
Reported P/E (x)	7.5	3.0	7.4	6.9	5.5
Dividend yield (%)	5.6	8.0	6.8	7.2	9.1
Price/book (x)	0.8	0.7	0.6	0.6	0.6
Price/tangible book (x)	0.8	0.7	0.6	0.6	0.6
EV/EBITDA (x) **	7.7	4.2	8.1	6.9	4.2
EV/EBITDA @ target price (x) **	8.7	4.9	9.4	8.2	5.1
EV/invested capital (x)	0.8	0.7	0.7	0.6	0.5

* Pre-exceptional, pre-goodwill and fully diluted ** EBITDA includes associate income and recurring non-operating income

Sources: Thai Oil; FSSIA estimates

Public disclosures related to sustainable development evaluation of Thai listed companies

[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**" by the Thai Institute of Directors Association (Thai IOD); 2) "**AGM Checklist**" by the Thai Investors Association (TIA), a "**CAC certified member**" of the Thai Private Sector Collective Action Against Corruption (CAC); and 3) **Sustainability Investment List (THSI)** by the Stock Exchange of Thailand. The ratings are updated on an annual basis. FSS International Investment Advisory Company Limited does not confirm nor certify the accuracy of such ratings.

CG Score by the Thai Institute of Directors Association (Thai IOD)¹

The [CG Score](#) indicates corporate governance (CG) strength in the sustainable development of Thai listed companies. Annually, the Thai IOD, with support from the Stock Exchange of Thailand (SET), surveys and assesses the CG practices of companies and publishes the results on the [Thai IOD website](#) in a bid to promote and enhance the CG of Thai listed companies in order to promote compliance with international standards for better investment decisions. The results are from the perspective of a third party, not an evaluation of operations, as of the date appearing in the report, and may be changed after that date.

The [five underlying categories and weighting](#) used for the CG scoring in 2022 include the rights of shareholders and equitable treatment of shareholders (weight 25% combined), the role of stakeholders (25%), disclosure and transparency (15%), and board responsibilities (35%).

The CGR report rates CG in six categories: 5 for Excellent (score range 90-100), 4 for Very Good (score range 80-89), 3 for Good (Score range 70-79), 2 for Fair (score range 60-69), 1 for Pass (score range 60-69), and not rated (score below 50).

AGM Checklist by the Thai Investors Association (TIA)²

The "[AGM Checklist](#)" quantifies the extent to which shareholders' rights and equitable treatment are incorporated into business operations and the extent to which information is sufficiently disclosed and the level of its transparency. All the considered factors form important elements of two out of five the CG components. Annually, the TIA, with support from the SEC, leads the project to evaluate the quality of Annual General Meetings of Shareholders (AGMs) and to rate quality of the meetings.

The [Checklist](#) contains the minimum requirements under law that companies must comply with, or best practices according to international CG guidance. Representatives of the TIA will attend the meetings and perform the evaluation. The assessment criteria cover AGM procedures before the meeting (45%), at the meeting date (45%), and after the meeting (10%). The first assesses 1) advance circulation of sufficient information for voting; and 2) facilitating of 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.

The results are classified into four categories: 5 for Excellent (score 100), 4 for Very Good (score 90-99), 3 for Fair (score 80-89), and not rated (score below 79).

CAC certified member by the Thai Private Sector Collective Action Against Corruption (CAC)³

A [CAC certified member](#) is a listed company whose Checklist satisfies the CAC Certification's criteria and is approved by the CAC Council. The core elements of the Checklist include corruption risk assessment, establishment of key controls, and the monitoring and developing of policies. Note that the CAC does not certify the behaviour of the employees nor whether the companies have engaged in bribery, and Certification is good for three years.

Companies deciding to become a CAC certified member [start with](#) by submitting a Declaration of Intent signed by the Chairman of the Board to kick off the 18-month deadline for companies to submit the CAC Checklist for Certification. The 18-month provision is for risk assessment, in place of policy and control, training of managers and employees, establishment of whistleblowing channels, and communication of policies to all stakeholders.

The checklist document will be reviewed by the CAC Certification Committee for adequate information and evidence. It is worth noting that the committee consists of nine professionals in business law, corporate governance, internal audit, financial audit and experienced representatives from certified members.

A passed Checklist will move on to the [CAC Council](#) for granting certification approvals. The CAC Council consists of twelve prominent individuals who are highly respected in professionalism and ethical achievements. Among them are former ministers, a former central bank governor, the former head of the Thai Listed Companies Association, Chairman of Anti-Corruption Organizations (Thailand), Chairman of Thai Institute of Directors, and reputable academic scholars.

Sustainability Investment (THSI)⁴ by the Stock Exchange of Thailand (SET)

Thailand Sustainability Investment ([THSI](#)) quantifies responsibility in **E**nvironmental, and **S**ocial issues, by managing business with transparency in **G**overnance. The THSI serves as another choice for investors who desire to adopt a responsible investment approach, according to the SET.

Annually, the SET will announce the voluntary participation of the company candidates which pass the preemptive criteria, and whose two key crucial conditions are met, i.e. no irregular trading of the board members and executives and a free float of >150 by the number of shareholders, and combined holding must >15% of paid-up capital. Some key disqualifying criteria include a CG score of below 70%; independent directors and free float violation; executives' wrongdoing related to CG, social and environmental impacts, equity in negative territory, and earnings in the red for more than three years in the last five years. To become eligible for THSI, the candidate must pass three indicators in data declaration: **E**conomic (CG, risk management, customer relation management, supply chain management, and innovation); **E**nvironmental (environmental management, eco-efficiency, and climate risk); **S**ocial (human rights, talent attraction, operational health & safety, community development, and stakeholder engagement); and the incorporation of ESG in business operations.

To be approved for THSI inclusion, verified data must be scored at a 50% minimum for each indicator, unless the company is a part of the Dow Jones Sustainability Indices⁵ (DJSI) during the assessment year. The scoring will be fairly weighted against the nature of the relevant industry and materiality.

Note that, from the [THSI list](#), the SET further developed a sustainability [SETTHSI Index](#) in June 2018 from selected THSI companies whose 1) market capitalisation > 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.

Sources: [SEC](#); [Thai IOD](#); [Thai CAC](#); [SET](#); FSSIA's compilation

Disclaimer:

¹ Thai Institute of Directors Association ([Thai IOD](#)) was established in December 1999 and is a membership organisation that strives to promote professionalism in directorship. The Thai IOD offers directors certification and professional development courses, provides a variety of seminars, forums and networking events, and conducts research on board governance issues and practices. Membership comprises board members from companies ranging from large publicly listed companies to small private firms.

² Thai Investors Association ([TIA](#)) was established in 1983 with a mission to promote investment knowledge and to protect the investment rights of Thai investors. In 2002, the association was appointed by the Securities and Exchange Commission (SEC) to represent individual shareholders. To obtain information for evaluation, the association recruits volunteer investors to join AGMs and score the meetings. Weightings for each meeting are at a 45:45:10 ratio. They have been applied since 2017 and subject to change.

³ Thai Private Sector Collective Action against Corruption ([CAC](#)) was founded in 2010 and is 100% privately funded. It is an initiative by the Thai private sector to take part in tackling corruption problems via collective action. The CAC promotes the implementation of effective anti-corruption policies in order to create a transparent business ecosystem by developing a unique certification program for large/medium/small companies to apply for and to control corruption risk systematically and efficiently. The CAC's operations are sponsored by the US-based Center for Private Enterprise (CIPE) and the UK Prosperity Fund.

⁴ Sustainability Investment List ([THSI](#)), created by the Stock Exchange of Thailand in 2015, comprises the listed companies that conduct sustainable business operations.

⁵ Dow Jones Sustainability Indices – [Wikipedia](#) – Launched in 1999, DJSI evaluates the sustainability performance of companies based on corporate economic, environmental, and social performance.

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

Kwanwaree Apichartsataporn FSS International Investment Advisory Securities Co., Ltd

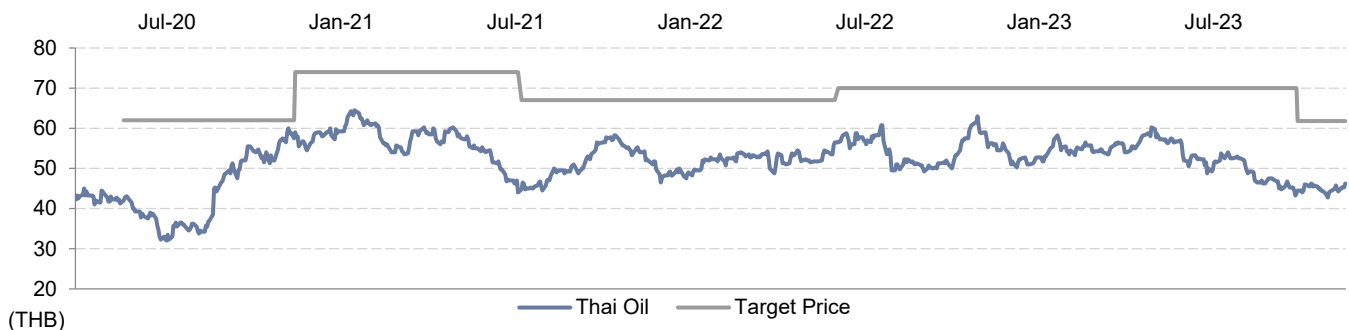
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History of change in investment rating and/or target price

Thai Oil (TOP TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
21-Aug-2020	BUY	62.00	30-Jul-2021	BUY	67.00	01-Jun-2023	BUY	61.80
18-Jan-2021	BUY	74.00	29-Apr-2022	BUY	70.00			

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 46.25	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; and 4) unplanned refinery shutdowns.

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

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All share prices are as at market close on 13-Jul-2023 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.