

18 JANUARY 2021

THAILAND / OIL & GAS

THAI OIL TOP TB

BUY

UNCHANGED

TARGET PRICE	THB74.00
CLOSE	THB59.00
UP/DOWNSIDE	+25.4%
PRIOR TP	THB62.00
CHANGE IN TP	+19.4%
TP vs CONSENSUS	+40.4%

ปีพลิกกลับสู่จุดสูงสุด

ปีที่เลวร้ายที่สุดผ่านไปแล้ว ปีใหม่ที่ดีกว่ากำลังรออยู่ข้างหน้า

เราเชื่อว่ากำไรของ TOP ได้ผ่านช่วงที่เลวร้ายที่สุดในปี 2020 และบริษัทฯ มีแนวโน้มที่จะพลิกมารายงานกำไรในปี 2021-22 โดยได้แรงหนุนจาก 1) ค่าการกลั่นที่เพิ่มขึ้นตาม Product Margins และผลกระทบจาก Crude Premium ที่ลดลง; 2) กำไรสุทธิที่สูงขึ้นจากธุรกิจโรงไฟฟ้า โดยเฉพาะอย่างยิ่งผ่านการลงทุนใน Global Power Synergy (GPSC TB, BUY, TP THB112); และ 3) ผลกระทบจำกัดจากผลขาดทุนสินค้าคงคลัง เราคิดว่าการขายเงินลงทุน 2 รายการ กล่าวคือ หุ้น 3.5% ใน GPSC และหุ้น 100% ใน Thaioil Marine (not listed) ในปี 2020 ควรมีผลกระทบจำกัดต่อกำไรสุทธิของ TOP ในปี 2021 และหลังจากนั้น เนื่องจากโครงการใหม่ของ GPSC ให้อัตราการเติบโตของกำไรสุทธิที่มากกว่า ในขณะที่ต้นทุนค่าระวางในอุตสาหกรรมน้ำมันดิบมีแนวโน้มลดลง และค่าใช้จ่ายดอกเบี้ยลดลงจากการใช้เงินสดที่ได้จากการขายการลงทุนเพื่อลดหนี้

กลยุทธ์ด้านน้ำมันดิบที่ถูกเวลามากยิ่งขึ้นควรช่วยผลักดันค่าการกลั่นให้สูงขึ้นในปี 2021

ในปี 2020 TOP เลือกใช้น้ำมันดิบในระดับแข่งขันต่ำกว่าคู่แข่ง โดยเลือกระหว่าง the Middle East crude types และ US shale oil และ West African light, sweet crude types ในเวลาที่ไม่เหมาะสม อันนำมาซึ่ง Market GRM ที่ต่ำกว่าคาดในช่วง 1Q20-3Q20 ในปี 2021 เราคิดว่าค่าการกลั่นของ TOP ไม่น่าจะได้รับผลกระทบจากความผันผวนของ Crude Premium เนื่องจากเราคาดว่า Crude Premium จะทรงตัวได้ดีขึ้น โดยอยู่ในช่วง USD1-2/bbl ซึ่งทำให้เราคาดว่าค่าการกลั่นอาจเพิ่มสูงขึ้น USD1-2/bbl y-y

ปัญหาจากน้ำมันเชื้อเพลิงอากาศยานจะหายไปภายใน 3Q21

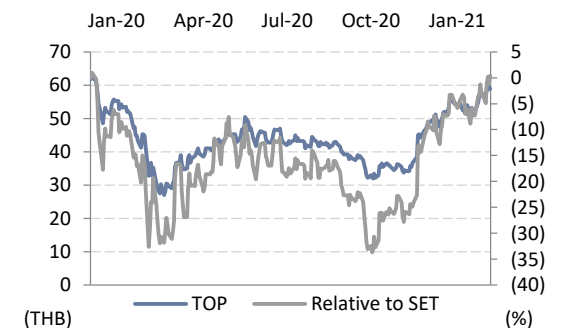
เนื่องจาก TOP เป็นบริษัทกลั่นน้ำมันแห่งเดียวในประเทศไทยที่ยังผลิตน้ำมันเชื้อเพลิงอากาศยาน โดยมีผลตอบแทนการผลิตอยู่ที่ 8-9% เทียบกับ 0% ของบริษัทโรงกลั่นในประเทศรายอื่น ๆ ตั้งแต่กลางปี 2020 เราคาดว่าภายใน 3Q21 ผลกระทบด้านลบของ Jet-Dubai Margin ที่ตกต่ำจะหายไปจากความต้องการน้ำมันเชื้อเพลิงอากาศยานที่เพิ่มอย่างช้า ๆ โดยได้แรงผลักดันจากตัวเลขเที่ยวบินนานาชาติที่สูงขึ้น เราเชื่อว่าผลกระทบของ Jet-Dubai Margin ที่สูงขึ้นเพียงประการเดียวอาจทำให้ค่าการกลั่นเพิ่มสูงขึ้น USD0.5-1.0/bbl y-y ในปี 2021

พร้อมวังไปข้างหน้า

เราคงคำแนะนำซื้อหลังปรับราคาเป้าหมายของเราจาก 62 บาท (2021E EV/EBITDA ที่ 7.4x) เป็น 74 บาท (2021E EV/EBITDA ที่ 8.4x) เพื่อสะท้อนการพลิกฟื้นของกำไรสุทธิในระดับสูงของ TOP และแนวโน้ม Refinery Margin ที่ดีขึ้นของอุตสาหกรรมในปี 2021 เราเชื่อว่าพอร์ตธุรกิจที่มีการกระจายความเสี่ยงของ TOP กลยุทธ์ด้านน้ำมันดิบที่เพิ่มขึ้นและ Jet-Dubai Margin ที่อยู่ในระดับสูง ควรเป็นปัจจัยบวกสำคัญสำหรับกำไรที่ดีของบริษัทฯ ในปี 2021

KEY STOCK DATA

YE Dec (THB m)	2019	2020E	2021E	2022E
Revenue	362,179	185,846	252,908	267,465
Net profit	5,932	(5,290)	13,805	16,119
EPS (THB)	2.91	(2.59)	6.77	7.90
vs Consensus (%)	-	nm	194.3	127.6
EBITDA	15,127	9,248	35,833	39,952
Core net profit	5,932	(5,290)	13,805	16,119
Core EPS (THB)	2.91	(2.59)	6.77	7.90
Chg. In EPS est. (%)	-	nm	0.0	0.0
EPS growth (%)	(41.6)	nm	nm	16.8
Core P/E (x)	20.3	(22.8)	8.7	7.5
Dividend yield (%)	2.5	2.0	5.2	6.0
EV/EBITDA (x)	11.5	23.6	7.6	7.4
Price/book (x)	1.0	1.0	1.0	0.9
Net debt/Equity (%)	36.9	75.7	111.6	121.3
ROE (%)	4.8	(4.4)	11.4	12.5



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	8.8	63.9	(4.5)
Relative to country (%)	5.8	34.1	(0.6)
Mkt cap (USD m)	4,006		
3m avg. daily turnover (USD m)	24.7		
Free float (%)	45		
Major shareholder	PTT plc. (49%)		
12m high/low (THB)	63.00/25.25		
Issued shares (m)	2,040.03		

Sources: Bloomberg consensus; FSSIA estimates



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บทวิเคราะห์ฉบับนี้แปลมาจากบทวิเคราะห์ของ FSSIA ฉบับวันที่ 18 มกราคม 2021

Investment thesis

Since IMO 2020 regulations came into force mandating the use of low-sulphur fuel oil (LSFO) by the global shipping industry, we think TOP has stood out as one of the potential refinery winners in Asia to capture the projected widening diesel-fuel oil spreads. TOP has sustained its earnings improvement since 2009, thanks to its well-diversified earnings portfolio. We expect 40-50% of its 2021-22 earnings to be derived from its non-refinery businesses, including aromatics (20%), lube (10%), power (10%) and marine transportation (3%). We believe TOP's Clean Fuel Project (CFP) will allow it to employ its capital more efficiently and position itself to benefit from the projected USD2-4/bbl higher market GRM from the widening diesel-Dubai spread. This is because TOP intends to convert all its loss-making fuel oil capacity to produce diesel post completion and start-up of the CFP in 2023.

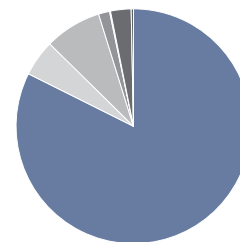
Company profile

TOP operates Thailand's largest single-site refinery, which is one of the most complex refineries in the Asia Pacific region with a nameplate capacity of 220,000 bopd. It also undertakes power generation, petrochemical production and oil and petrochemical product transportation.

www.thaioilgroup.com

Principal activities (revenue, 2019)

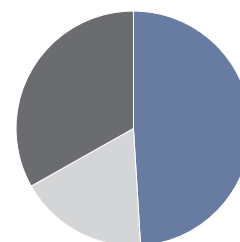
- Oil refinery - 82.4 %
- Lubed-based oil refinery - 5.0 %
- Petrochemical - 7.8 %
- Power generation - 1.5 %
- Marine transportation services - 0.1 %



Source: Thai Oil

Major shareholders

- PTT plc. - 49.0 %
- Thai NVDR - 17.8 %
- Others - 33.2 %



Source: Thai Oil

Catalyst

A key potential catalyst for TOP would be a higher-than-expected recovery in market GRM due to stronger-than-expected diesel cracks and a lower-than-expected crude premium.

Risk to our call

Downside risks to our EV/EBITDA-based TP are a sharp rise in oil price and weak demand for refined oil products.

Event calendar

Date	Event
Feb 2021	4Q20/2020 results announcement

Key assumptions

	2020E	2021E	2022E
	(USD/bbl)	(USD/bbl)	(USD/bbl)
Dubai oil price	40.0	50.0	50.0
Refining margin	(1.3)	5.8	6.3
Crude premium	1.4	1.5	2.0
Diesel-Dubai margin	6.0	12.0	15.0
Jet-Dubai margin	2.0	10.0	10.0
Gasoline-Dubai margin	6.0	10.0	14.0
HSFO-Dubai margin	(4.0)	(3.0)	(7.0)

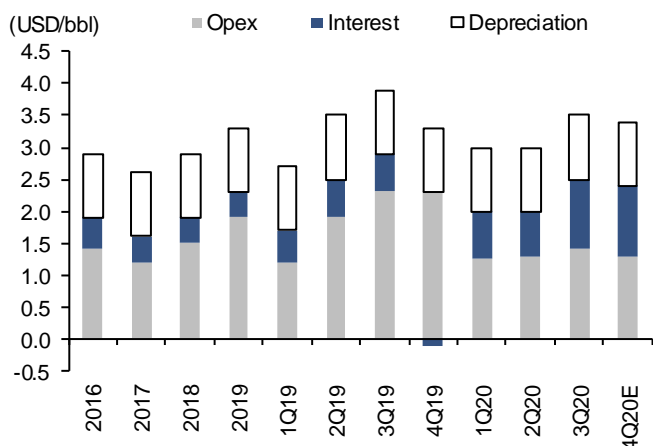
Source: FSSIA estimates

Earnings sensitivity

- For every 1% increase in average Dubai oil price, we project 2021 earnings to rise by 2.4%, and vice versa, all else being equal.
- For every 1% increase in market GRM, we estimate 2021 earnings will rise by 2%, and vice versa, all else being equal.
- Stability in crude oil price, rising diesel cracks and a low crude premium are key for earnings growth.

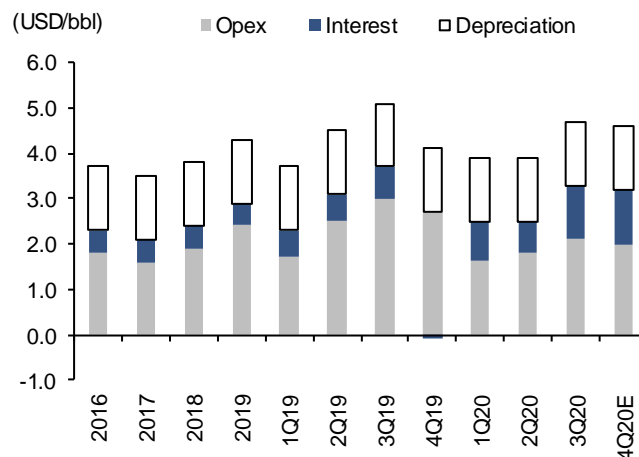
Source: FSSIA estimates

Exhibit 1: Refinery cash cost



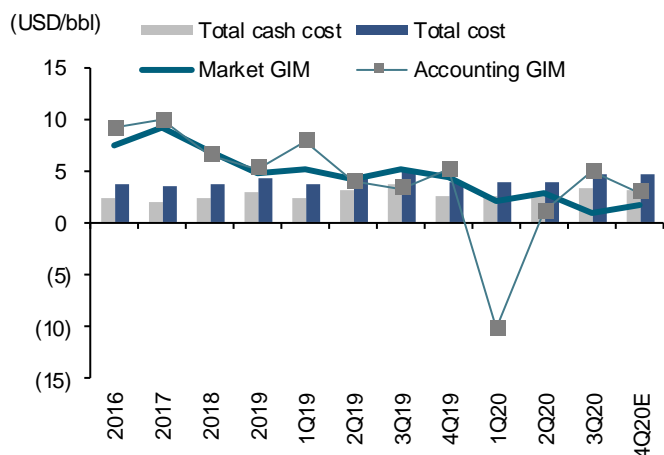
Source: TOP

Exhibit 2: Group's cash cost



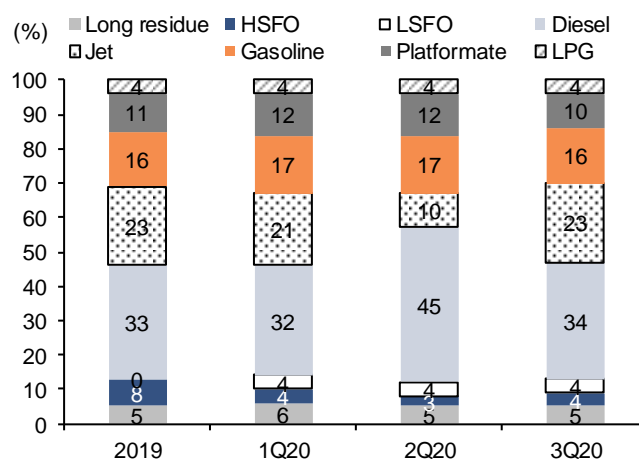
Source: TOP

Exhibit 3: Total cash cost, total cost, market gross integrated margin (GIM) and accounting GIM



Source: TOP

Exhibit 4: Product yield breakdown



Source: TOP

Exhibit 5: Key changes in assumptions

(THB m)	Current			Previous			Change (%)		
	2020E	2021E	2022E	2020E	2021E	2022E	2020E	2021E	2022E
Revenue	185,846	252,908	267,465	200,827	252,908	267,465	(7.5)	-	-
Gross profit	11,478	38,867	43,162	26,459	38,868	43,162	(56.6)	(0.0)	(0.0)
Operating profit	(4,969)	18,693	21,420	9,832	18,693	21,419	(150.5)	0.0	0.0
Net profit	(5,290)	13,805	16,119	6,550	13,804	16,119	(180.8)	0.0	0.0
EPS (THB/shr)	(2.6)	6.8	7.9	3.2	6.8	7.9	(180.8)	0.0	0.0
Key assumptions (USD/bbl)									
Dubai oil price	40.0	50.0	50.0	40.0	50.0	50.0	-	-	-
Refining margin	(1.3)	5.8	6.3	3.3	5.8	6.3	(138.8)	(0.0)	(0.0)
Crude premium	1.4	1.5	2.0	1.4	1.5	2.0	-	-	-
Diesel-Dubai margin	6.0	12.0	15.0	6.0	12.0	15.0	-	-	-
Jet-Dubai margin	2.0	10.0	10.0	2.0	10.0	10.0	-	-	-
Gasoline-Dubai margin	6.0	10.0	14.0	6.0	10.0	14.0	-	-	-
HSFO-Dubai margin	(4.0)	(3.0)	(7.0)	(4.0)	(3.0)	(7.0)	-	-	-

Source: FSSIA estimates

Financial Statements

Thai Oil

Profit and Loss (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022E
Revenue	389,344	362,179	185,846	252,908	267,465
Cost of goods sold	(365,864)	(344,368)	(174,368)	(214,040)	(224,303)
Gross profit	23,479	17,811	11,478	38,867	43,162
Other operating income	-	-	-	-	-
Operating costs	(2,782)	(2,684)	(2,230)	(3,035)	(3,210)
Operating EBITDA	20,698	15,127	9,248	35,833	39,952
Depreciation	(7,264)	(11,388)	(14,217)	(17,140)	(18,532)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	13,434	3,739	(4,969)	18,693	21,420
Net financing costs	(2,259)	2,718	(2,665)	(2,524)	(2,427)
Associates	1,193	1,253	1,315	1,381	1,450
Recurring non operating income	1,193	1,253	1,315	1,381	1,450
Non recurring items	0	0	0	0	0
Profit before tax	12,367	7,709	(6,319)	17,550	20,443
Tax	(1,983)	(1,542)	1,264	(3,510)	(4,089)
Profit after tax	10,384	6,167	(5,055)	14,040	16,355
Minority interests	(235)	(235)	(235)	(235)	(235)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	10,149	5,932	(5,290)	13,805	16,119
Non recurring items & goodwill (net)	0	0	0	0	0
Recurring net profit	10,149	5,932	(5,290)	13,805	16,119
Per share (THB)					
Recurring EPS *	4.97	2.91	(2.59)	6.77	7.90
Reported EPS	4.97	2.91	(2.59)	6.77	7.90
DPS	6.25	1.50	1.17	3.05	3.56
Diluted shares (used to calculate per share data)	2,040	2,040	2,040	2,040	2,040
Growth					
Revenue (%)	15.4	(7.0)	(48.7)	36.1	5.8
Operating EBITDA (%)	(42.8)	(26.9)	(38.9)	287.5	11.5
Operating EBIT (%)	(52.9)	(72.2)	nm	nm	14.6
Recurring EPS (%)	(59.2)	(41.6)	nm	nm	16.8
Reported EPS (%)	(59.2)	(41.6)	nm	nm	16.8
Operating performance					
Gross margin inc depreciation (%)	4.2	1.8	(1.5)	8.6	9.2
Gross margin of key business (%)	4.2	1.8	(1.5)	8.6	9.2
Operating EBITDA margin (%)	5.3	4.2	5.0	14.2	14.9
Operating EBIT margin (%)	3.5	1.0	(2.7)	7.4	8.0
Net margin (%)	2.6	1.6	(2.8)	5.5	6.0
Effective tax rate (%)	16.0	20.0	20.0	20.0	20.0
Dividend payout on recurring profit (%)	125.6	51.6	(45.0)	45.0	45.0
Interest cover (X)	6.5	(1.8)	(1.4)	8.0	9.4
Inventory days	30.7	37.7	67.1	43.8	49.5
Debtor days	21.9	25.0	37.7	22.2	24.9
Creditor days	24.0	29.9	48.8	31.8	36.0
Operating ROIC (%)	6.7	1.9	(2.6)	7.9	8.4
ROIC (%)	6.4	2.0	(1.3)	5.4	5.2
ROE (%)	8.3	4.8	(4.4)	11.4	12.5
ROA (%)	4.9	1.4	(0.9)	4.5	4.3
* Pre-exceptional, pre-goodwill and fully diluted					
Revenue By Division (THB m)					
Oil refinery	330,063	298,325	120,286	187,348	201,905
Lubed-based oil refinery	15,671	18,096	19,501	19,501	19,501
Petrochemical	27,583	28,390	27,070	27,911	27,670
Power generation	4,839	5,519	6,071	5,230	5,471

Sources: Thai Oil; FSSIA estimates

Financial Statements

Thai Oil

Cash Flow (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022E
Recurring net profit	10,149	5,932	(5,290)	13,805	16,119
Depreciation	7,264	11,388	14,217	17,140	18,532
Associates & minorities	-	-	-	-	-
Other non-cash items	-	-	-	-	-
Change in working capital	5,348	(9,564)	17,987	(6,841)	(1,485)
Cash flow from operations	22,761	7,756	26,914	24,103	33,167
Capex - maintenance	-	-	-	-	-
Capex - new investment	(7,735)	(33,472)	(74,028)	(37,035)	(15,891)
Net acquisitions & disposals	-	-	-	-	-
Other investments (net)	(23,987)	(51,976)	(43,733)	(43,733)	(43,733)
Cash flow from investing	(31,723)	(85,448)	(117,761)	(80,768)	(59,624)
Dividends paid	(10,710)	(3,060)	(2,381)	(6,212)	(7,254)
Equity finance	0	0	0	0	0
Debt finance	(182)	(2,300)	166	43,484	58,484
Other financing cash flows	38,272	123,865	51,551	11,616	11,685
Cash flow from Financing	27,380	118,505	49,336	48,888	62,916
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	18,418	40,813	(41,511)	(7,777)	36,458
Free cash flow to firm (FCFF)	(5,019.58)	(74,384.40)	(87,076.69)	(52,980.75)	(22,859.40)
Free cash flow to equity (FCFE)	29,128.20	43,872.97	(39,129.84)	(1,564.85)	43,711.38
Per share (THB)					
FCFF per share	(2.46)	(36.46)	(42.68)	(25.97)	(11.21)
FCFE per share	14.28	21.51	(19.18)	(0.77)	21.43
Recurring cash flow per share	8.54	8.49	4.38	15.17	16.99
Balance Sheet (THB m) Year Ending Dec					
Tangible fixed asset (gross)	199,634	233,106	307,134	344,169	360,060
Less: Accumulated depreciation	(119,705)	(131,093)	(145,310)	(162,449)	(180,981)
Tangible fixed assets (Net)	79,929	102,013	161,824	181,720	179,079
Intangible fixed assets (Net)	0	0	0	0	0
Long-term financial assets	-	-	-	-	-
Invest. In associates & subsidiaries	14,316	15,568	16,883	18,264	19,714
Cash & equivalents	34,041	74,854	33,343	25,567	62,025
A/C receivable	24,359	25,353	13,009	17,704	18,723
Inventories	28,739	42,378	21,746	29,592	31,296
Other current assets	77,604	6,141	9,757	9,757	9,757
Current assets	164,743	148,726	77,855	82,620	121,800
Other assets	9,625	39,136	73,224	108,943	141,228
Total assets	268,613	305,443	329,787	391,547	461,821
Common equity	121,712	124,913	117,242	124,834	133,700
Minorities etc.	4,760	4,960	5,162	5,362	5,562
Total Shareholders' equity	126,472	129,873	122,404	130,197	139,262
Long term debt	100,120	119,873	123,103	168,103	228,103
Other long-term liabilities	4,001	10,000	50,630	56,926	56,926
Long-term liabilities	104,121	129,873	173,733	225,029	285,029
A/C payable	25,716	30,785	15,797	21,497	22,735
Short term debt	6,940	2,912	2,853	2,824	2,795
Other current liabilities	5,364	12,000	15,000	12,000	12,001
Current liabilities	38,020	45,697	33,650	36,321	37,531
Total liabilities and shareholders' equity	268,613	305,443	329,787	391,547	461,821
Net working capital	99,622	31,086	13,715	23,556	25,040
Invested capital	203,492	187,804	265,647	332,483	365,061
* Includes convertibles and preferred stock which is being treated as debt					
Per share (THB)					
Book value per share	59.66	61.23	57.47	61.19	65.54
Tangible book value per share	59.66	61.23	57.47	61.19	65.54
Financial strength					
Net debt/Equity (%)	57.7	36.9	75.7	111.6	121.3
Net debt/total assets (%)	27.2	15.7	28.1	37.1	36.6
Current ratio (x)	4.3	3.3	2.3	2.3	3.2
CF interest cover (x)	17.3	(27.5)	14.1	15.1	25.6
Valuation					
Recurring P/E (x) *	11.9	20.3	(22.8)	8.7	7.5
Recurring P/E @ target price (x) *	14.9	25.4	(28.5)	10.9	9.4
Reported P/E (x)	11.9	20.3	(22.8)	8.7	7.5
Dividend yield (%)	10.6	2.5	2.0	5.2	6.0
Price/book (x)	1.0	1.0	1.0	1.0	0.9
Price/tangible book (x)	1.0	1.0	1.0	1.0	0.9
EV/EBITDA (x) **	9.6	11.5	23.6	7.6	7.4
EV/EBITDA @ target price (x) **	11.1	13.5	26.9	8.4	8.1
EV/invested capital (x)	1.0	0.9	0.8	0.8	0.8
* Pre-exceptional & pre-goodwill are fully diluted ** EBITDA includes associate income and recurring non operating income					

Sources: Thai Oil; FSSIA estimates

Corporate Governance report of Thai listed companies 2019

EXCELLENT LEVEL										
AAV	ADVANC	AIRA	AKP	AKR	AMA	AMATA	AMATAV	ANAN	AOT	AP
ARROW	BAFS	BANPU	BAY	BCP	BCPG	BOL	BRR	BTS	BTW	BWG
CFRESH	CHEWA	CHO	CK	CKP	CM	CNT	COL	COMAN	CPALL	CPF
CPI	CPN	CSS	DELTA	DEMCO	DRT	DTAC	DTC	EA	EASTW	ECF
EGCO	GBX	GC	GCAP	GEL	GGP	GGC	GOLD	GPSC	GRAMMY	GUNKUL
HANA	HARN	HMPRO	ICC	ICHI	III	ILINK	INTUCH	IRPC	IVL	JKN
JSP	K	KBANK	KCE	KKP	KSL	KTB	KTC	KTIS	LH	LHFG
LIT	LPN	MAKRO	MALEE	MBK	MBKET	MC	MCOT	MFEC	MINT	MONO*
MTC	NCH	NCL	NKI	NSI	NVD	NYT	OISHI	OTO	PAP	PCSGH
PDJ	PG	PHOL	PJW	PLANB	PLANET	PORT	PPS	PR9	PREB	PRG
PRM	PSH	PSL	PTG	PTT	PTTEP	PTTGC	PYLON	Q-CON	QH	QTC
RATCH	ROBINS**	RS	S	S & J	SABINA	SAMART	SAMTEL	SAT	SC	SCB
SCC	SCCC	SCN	SDC	SEAFCO	SEAOIL	SE-ED	SELIC	SENA	SIS	SITHAI
SNC	SORKON	SPALI	SPI	SPRC	SSSC	STA	STEC	SVI	SYNTEC	TASCO
TCAP	THAI	THANA	THANI	THCOM	THIP	THREL	TIP	TISCO	TK	TKT
TMB	TMILL	TNDT	TOA	TOP	TRC	TRU	TRUE	TSC	TSR	TSTH
TTA	TTCL	TTW	TU	TVD	TVO	U	UAC	UV	VGI	VIH
WACOAL	WAVE	WHA	WHAUP	WICE	WINNER					
VERY GOOD LEVEL										
2S	ABM	ADB	AF	AGE	AH	AHC	AIT	ALLA	ALT	AMANA
AMARIN	APCO	APCS	AQUA	ARIP	ASAP	ASIA	ASIAN	ASIMAR	ASK	ASN
ASP	ATP30	AUCT	AYUD	B	BA	BBL	BDMS	BEC	BEM	BFIT
BGC	BGRIM	BIZ	BJC	BJCHI	BLA	BPP	BROOK	CBG	CEN	CENDEL
CGH	CHG	CHOTI	CHOW	CI	CIMBT	CNS	COLOR	COM7	COTTO	CRD
CSC	CSP	DCC	DCON	DDD	DOD	EASON	ECL	EE	EPG	ERW
ESTAR	ETE	FLOYD	FN	FNS	FORTH	FPI	FPT	FSMART	FSS	FVC
GENCO	GJS	GL	GLOBAL	GLOW**	GULF	HPT	HTC	HYDRO	ICN	IFS
INET	INSURE	IRC	IRCP	IT	ITD***	ITEL	J	JAS*	JCK	JCKH
JMART	JMT	JWD	KBS	KCAR	KBS	KIAT	KOOL	KWC	KWM	L&E
LALIN	LANNA	LDC	LHK	LOXLEY	LRH	LST	M	MACO	MAJOR	MBAX
MEGA	METCO	MFC	MK	MODERN	MOONG	MPG	MSC	MTI	NEP	NETBAY
NEX	NINE	NOBLE	NOK	NTV	NWR	OCC	OGC	ORI	OSP	PATO
PB	PDG	PDI	PL	PLAT	PM	PPP	PRECHA	PRIN	PRINC	PSTC
PT	QLT	RCL	RICHY	RML	RWI	S11	SAAM	SALEE	SAMCO	SANKO
SAPPE	SAWAD	SCG	SCI	SCP	SE	SFP	SIAM	SINGER	SIRI	SKE
SKR	SKY	SMIT	SMK	SMP	SMT	SNP	SONIC	SPA	SPC	SPCG
SPVI	SR	SRICHA	SSC	SSF	SST	STANLY	STPI	SUC	SUN	SUSCO
SUTHA	SWC	SYMC	SYNEX	T	TACC	TAE	TAKUNI	TBSP	TCC	TCMC
TEAM	TEAMG	TFG	TFMAMA	THG	THRE	TIPCO	TITLE	TIW	TKN	TKS
TM	TMC	TMD	TMI	TMT	TNITY	TNL	TNP	TNR	TOG	TPA
TPAC	TPBI	TPCORP	TPOLY	TRITN	TRT	TSE	TSTE	TVI	TVT	TWP
TWPC	UBIS	UEC	UMI	UOBKH	UP	UPF	UPOIC	UT	UWC	VNT
WIIK	XO	YUASA	ZEN	ZMICO						
GOOD LEVEL										
A	ABICO	ACAP***	AEC	AEONTS	AJ	ALUCON	AMC	APURE	AS	ASEFA
AU	B52	BCH	BEAUTY	BGT	BH	BIG	BLAND	BM	BR	BROCK
BSBM	BSM	BTNC	CCET	CCP	CGD	CHARAN	CHAYO	CITY	CMAN	CMC
CMO	CMR	CPL	CPT	CSR	CTW	CWT	D	DIMET	EKH	EMC
EPCO	ESSO	FE	FTE	GIFT	GLAND	GLOCON	GPI	GREEN	GTB	GYT
HTECH	HUMAN	IHL	INGRS	INOX	JTS	JUBILE	KASET	KCM	KKC	KWG
KYE	LEE	LPH	MATCH	MATI	M-CHAI	MCS	MDX	META	MG	MJD
MM	MVP	NC	NDR	NER	NNCL	NPK	NUSA	OCEAN	PAF	PF
PICO	PIMO	PK	PLE	PMTA	POST	PPM	PROUD	PTL	RCI	RJH
ROJNA	RPC	RPH	SF	SGF	SGP	SKN	SLP	SMART	SOLAR	SPG
SQ	SSP	STI	SUPER	SVOA	TCCC	THE	THMUI	TIC	TIGER	TNH
TOPP	TPCH	TPIPP	TPLAS	TQM	TTI	TYCN	UTP	VCOM	VIBHA	VPO
WIN	WORK	WP	WPH	ZIGA						
Score Range	Number of Logo					Description				
90-100						Excellent				
80-89						Very Good				
70-79						Good				
60-69						Satisfactory				
50-59						Pass				
Less than 50	No logo given					-				

Disclaimer:

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

The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey results may be changed after that date. FSS International Investment Advisory Company Limited does not confirm nor certify the accuracy of such survey results.

* CGR scoring should be considered with news regarding wrong doing of the company or director or executive of the company such unfair practice on securities trading, fraud, and corruption SEC imposed a civil sanction against insider trading of director and executive; ** delisted

Source: Thai Institute of Directors Association (IOD); FSSIA's compilation

Anti-corruption Progress Indicator

CERTIFIED										
ADVANC	AIE	AKP	AMANAHA	AP	APCS	AQUA	ARROW	ASK	ASP	AYUD
BAFS	BANPU	BAY	BBL	BCH	BCP	BCPG	BGRIM	BJCHI	BKI	BLA
BROOK	BRR	BSBM	BTS	BWG	CEN	CENTEL	CFRESH	CGH	CHEWA	CIG
CIMBT	CM	COM7	CPALL	CPF	CPI	CPN	CSC	DCC	DEMCO	DIMET
DRT	DTAC	DTC	EASTW	ECL	EGCO	FE	FNS	FSS	GBX	GC
GCAP	GEL	GFPT	GGC	GJS	GOLD	GPSC	GSTEEL	GUNKUL	HANA	HARN
HMPRO	HTC	ICC	IFS	INET	INSURE	INTUCH	IRPC	IVL	K	KASET
KBANK	KBS	KCAR	KCE	KGI	KKP	KSL	KTB	KTC	KWC	L&E
LANNA	LHK	LPN	LRH	M	MAKRO	MALEE	MBAX	MBK	MBKET	MC
MCOT	MFC	MINT	MONO	MOONG	MSC	MTI	NBC	NINE	NKI	NMG
NNCL	NSI	OCC	OCEAN	OGC	PAP	PATO	PB	PCSGH	PDG	PDI
PDJ	PE	PG	PHOL	PL	PLANB	PLANET	PLAT	PM	PPP	PPS
PREB	PRG	PRINC	PSH	PSTC	PT	PTG	PTT	PTTEP	PTTGC	PYLON
Q-CON	QH	QLT	QTC	RATCH	RML	S & J	SABINA	SAT	SC	SCB
SCC	SCCC	SCG	SCN	SE-ED	SELIC	SENA	SGP	SIRI	SIS	SITHAI
SMIT	SMK	SMPC	SNC	SNP	SORKON	SPACK	SPC	SPI	SPRC	SRICHA
SSF	SSI	SSSC	SST	STA	SUSCO	SVI	SYNTEC	TASCO	TCAP	TFG
TFI	TFMAMA	THANI	THCOM	THIP	THRE	THREL	TIP	TIPCO	TISCO	TKT
TMB	TMD	TMILL	TMT	TNITY	TNL	TNP	TNR	TOG	TOP	TPA
TPCORP	TRU	TRUE	TSC	TSTH	TTCL	TU	TVD	TVI	TWPC	U
UBIS	UEC	UKEM	UOBKH	VGI	VIH	VNT	WACOAL	WHA	WICE	WIIK
DECLARED										
2S	ABICO	AF	AI	AIRA	ALT	AMA	AMARIN	AMATA	ANAN	B
BM	BPP	BUI	CHG	CHO	CHOTI	CHOW	CI	CMC	COL	DDD
DELTA	EFORL	EPCO	ESTAR	ETE	FPI	FTE	ICHI	INOX	IRC	ITEL
JAS	JSP	JTS	KWG	LDC	LIT	META	MFEC	MPG	NEP	NOK
NWR	ORI	PRM	PSL	ROJNA	RWI	SAAM	SAPPE	SCI	SEOIL	SHANG
SKR	SPALI	STANLY	SYNEX	TAE	TAKUNI	TMC	TOPP	TPP	TRITN	TVO
UV	UWC	WHAUP	XO	YUASA	ZEN					

Level	
Certified	This level indicates practical participation with thoroughly examination in relation to the recommended procedures from the audit committee or the SEC's certified auditor, being a certified member of Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) or already passed examination to ensure independence from external parties.
Declared	This level indicates determination to participate in the Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC)

Disclaimer:
 The disclosure of the Anti-Corruption Progress Indicators of a listed company on the Stock Exchange of Thailand, which is assessed by ThaiPat Institute, is made in order to comply with the policy and sustainable development plan for the listed companies of the Office of the Securities and Exchange Commission. ThaiPat Institute made this assessment based on the information received from the listed company, as stipulated in the form for the assessment of Anti-corruption which refers to the Annual Registration Statement (Form 56-1), Annual Report (Form 56-2), or other relevant documents or reports of such listed company. The assessment result is therefore made from the perspective of ThaiPat Institute that is a third party. It is not an assessment of operation and is not based on any inside information. Since this assessment is only the assessment result as of the date appearing in the assessment result, it may be changed after that date or when there is any change to the relevant information. Nevertheless, FSS International Investment Advisory Company Limited does not confirm, verify, or certify the accuracy and completeness of the assessment results.

Note: Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of June 24, 2019) are categorised into: 1) companies that have declared their intention to join CAC, and; 2) companies certified by CAC.

Source: The Securities and Exchange Commission, Thailand; * FSSIA's compilation

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

Suwat Sinsadok FSS International Investment Advisory Securities Co., Ltd

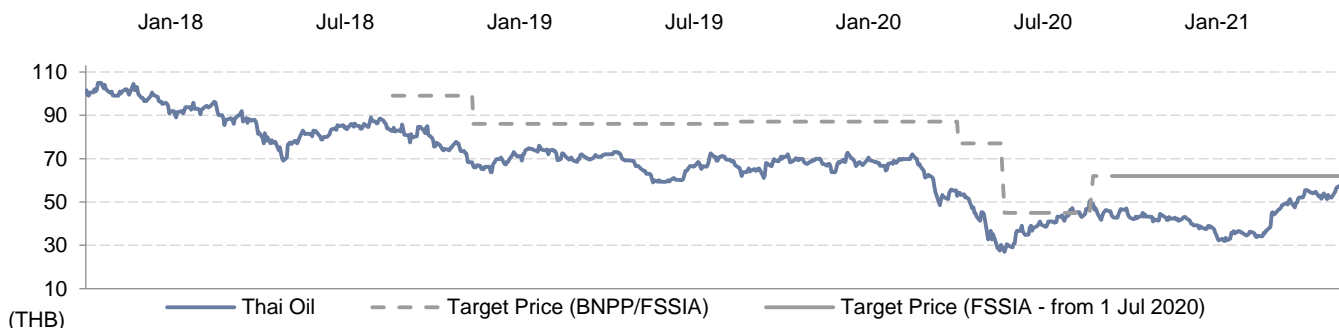
The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s) 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

Thai Oil (TOP TB)



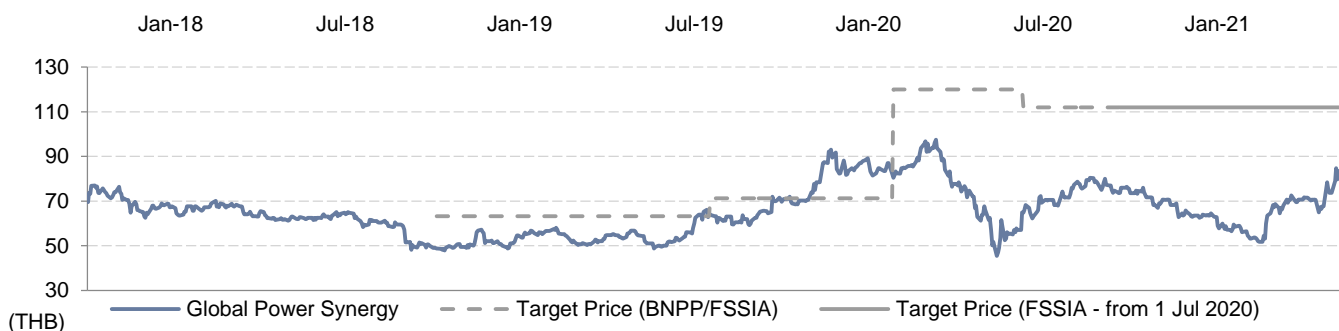
Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
09-Oct-2018	BUY	99.00	06-Aug-2019	BUY	87.00	23-Mar-2020	BUY	45.00
18-Dec-2018	BUY	86.00	12-Feb-2020	BUY	77.00	08-Jun-2020	BUY	62.00

Suwat Sinsadok started covering this stock from 09-Oct-2018

Price and TP are in local currency

Source: FSSIA estimates

Global Power Synergy (GPSC TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
15-Nov-2018	BUY	63.25	17-Dec-2019	BUY	120.00	-	-	-
11-Jul-2019	BUY	71.27	08-Apr-2020	BUY	112.00			

Suwat Sinsadok started covering this stock from 15-Nov-2018

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Thai Oil	TOP TB	THB 59.00	BUY	Downside risks to our EV/EBITDA-based TP are a sharp rise in oil price and weak demand for refined oil products.
Global Power Synergy	GPSC TB	THB 81.50	BUY	The downside risks to our SoTP-based TP on GPSC include 1) lower-than-expected demand for electricity in Thailand; 2) lower crude prices; and 3) lower-than-expected demand from industrial users.

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

FSSIA may incorporate the recommendations and target prices of companies currently covered by FSS Research into equity research reports, denoted by an 'FSS' before the recommendation. FSS Research is part of Finansia Syrus Securities Public Company Limited, which is the parent company of FSSIA.

All share prices are as at market close on 15-Jan-2021 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.