

PTT EXPLOR & PROD

THAILAND / OIL & GAS

PTTEP TB

BUY

UNCHANGED

Upside from higher oil price

- Following the withdrawal of TotalE as an operator and partner from the Yadana gas project, PTTEP will acquire a 37.0842% stake.
- We estimate that PTTEP will add 5kboed, 2% of its total sales volume, which could translate to a 3% earnings upside for PTTEP.
- Maintain BUY and raise our target price to THB176.

TARGET PRICE	THB176.00
CLOSE	THB145.50
UP/DOWNSIDE	+21.0%
PRIOR TP	THB162.00
CHANGE IN TP	+8.6%
TP vs CONSENSUS	+13.9%

KEY STOCK DATA

YE Dec (THB m)	2021	2022E	2023E	2024E
Revenue	219,068	319,977	311,971	312,059
Net profit	38,864	54,880	51,174	54,146
EPS (THB)	9.79	13.82	12.89	13.64
vs Consensus (%)	-	(4.4)	(4.5)	(2.4)
EBITDA	113,647	161,457	145,410	153,602
Core net profit	48,531	54,880	51,174	54,146
Core EPS (THB)	12.22	13.82	12.89	13.64
Chg. In EPS est. (%)	-	19.9	13.3	13.3
EPS growth (%)	104.9	13.1	(6.8)	5.8
Core P/E (x)	11.9	10.5	11.3	10.7
Dividend yield (%)	4.3	6.1	5.7	6.0
EV/EBITDA (x)	5.2	4.3	4.6	4.2
Price/book (x)	1.4	1.3	1.3	1.2
Net debt/Equity (%)	2.5	25.8	19.7	14.8
ROE (%)	12.6	12.9	11.5	11.7

Adding an 11.5% stake in Yadana

On 14 Mar-22, PTTEP announced that following the withdrawal of TotalEnergies EP Myanmar (TotalE) as an operator and partner in the Yadana gas project, PTTEP will acquire TotalE's stake, bringing PTTEP's stake in Yadana to 37.0842%, up from 25.5%. Other stakeholders include Chevron via its subsidiary Unocal Myanmar Offshore with 41.1016%, up from 28.26%, and Myanmar Oil and Gas Enterprise at 21.8124%, up from 15%.

Acquisition expected, but not without surprises

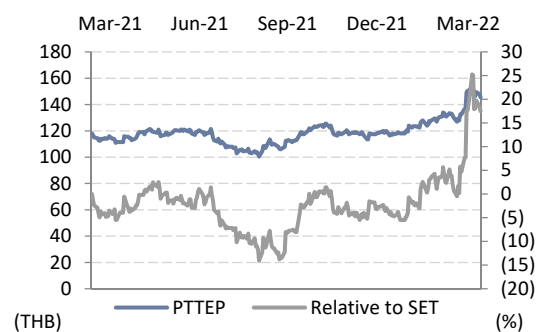
The decision to acquire the additional stake in Yadana by PTTEP and its partners is in line with our and the market's expectations as TotalE's exit, citing the political instability in Myanmar, was due to be finalised by Jun-22. However, UMO's move to continue its holding and even acquire an additional stake surprised us as we expected Chevron to exit from Yadana in line with US sanctions against Myanmar's military government.

Increase in Yadana stake is timely and strategically important

Yadana is a large, highly strategic gas field with an average annual gas sales volume of 770mmscfd, supplying 11% of Thailand's gas consumption and 50% of Myanmar's total gas supply. Post-acquisition, we estimate that PTTEP could add 5k barrels of oil equivalent (boed), 2% of its total sales volume, which could translate into a 3% earnings upside for PTTEP due to its low-cost structure until 2028 when the Yadana concession expires.

Still Thailand's best oil play: upgrade TP to THB176

We maintain BUY and raise our target price from THB162, based on 4.5x 2021 EV/EBITDA, to THB176, based on 5.0x 2022E EV/EBITDA, to reflect: 1) our EPS upgrades by 13-19% in 2022-24 to incorporate our 29-33% higher oil price assumptions to USD100/90/90 per barrel in 2022-24; and 2) our valuation rollover to 2022. PTTEP remains our top pick in the upstream oil & gas sector based on our estimate that for every 1% change in the oil price its earnings should increase by 1.3-2.0%, depending on the oil volume sold. However, with its lower oil production proportion at 27% in 2022-23, we think PTTEP may be trading at a higher discount of 15-20% compared to its regional peers.



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	9.4	22.8	21.8
Relative to country (%)	13.2	22.9	15.8
Mkt cap (USD m)			17,215
3m avg. daily turnover (USD m)			62.7
Free float (%)			35
Major shareholder			PTT Plc. (65%)
12m high/low (THB)			158.00/100.50
Issued shares (m)			3,969.99

Sources: Bloomberg consensus; FSSIA estimates



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Investment thesis

PTTEP's net profit growth should remain sanguine in 2022 based on its strong sales volume growth and the oil and gas price uptrend.

We believe PTTEP's average selling price will rise in tandem with the higher oil price, given PTTEP's high exposure to the oil price via its liquid price, which accounts for 30% of its production volume and 50% of its revenue. Gas currently constitutes 70% of its total sales volume but only 50% of its revenue.

PTTEP's cost structure remains highly competitive compared with its regional peers due to its low-cost gas fields and strict cost control strategy implemented in 2015.

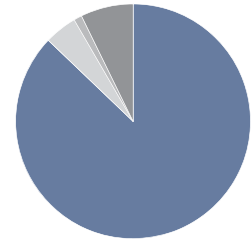
Company profile

Established by PTT Plc (formerly Petroleum Authority of Thailand) in 1985, PTTEP is Thailand's premier oil & gas exploration and production company. Most of its petroleum assets are in the Gulf of Thailand. It was listed on the Stock Exchange of Thailand in 1992.

www.pttep.com

Principal activities (revenue, 2021)

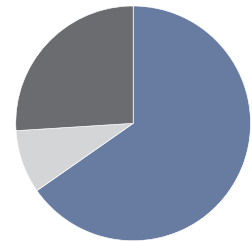
- Exploration and production - 101.9 %
- Pipeline - 5.3 %
- Others - 1.3 %
- Inter company eliminations - -8.5 %



Source: PTT Explor & Prod

Major shareholders

- PTT Plc. - 65.3 %
- Thai NDVR - 8.7 %
- Others - 26.0 %



Source: PTT Explor & Prod

Catalysts

Potential catalysts for PTTEP are rising oil and gas prices and potential M&A that could further drive its production and reserves higher.

Risks to our call

Risks our TP, which is based on EV/EBITDA, are a sharp decline in oil prices and a potential earnings downside from government intervention.

Event calendar

Date	Event
May 2022	1Q22 results announcement

Key assumptions

	2022E	2023E	2024E
Brent oil price (USD/bbl)	100	90	90
Sales volume (boed)	513,890	533,890	534,040
ASP (USD/boe)	51.0	47.9	47.9
Gas price (USD/mmbtu)	5.6	5.5	5.5
Cost (USD/boe)	28.0	27.0	27.0

Source: FSSIA estimates

Earnings sensitivity

- For every 1% increase in Dubai oil price, we project 2022 earnings would rise 1.3%, and vice versa, all else being equal.
- For every 1% increase in gas price, we estimate 2022 earnings would rise 1.2%, and vice versa.
- For every 1% increase in sales volume, we estimate 2022 earnings would rise 1.1%, and vice versa.

Source: FSSIA estimates

Acquisition of a larger stake in Yadana gas field

On 14 Mar-22, PTTEP announced that following the withdrawal of TotalE as an operator and partner from the Yadana gas project, PTTEP will acquire TotalE's stake, bringing PTTEP's stake in Yadana to 37.0842%, up from 25.5%. Other stakeholders include Chevron via its subsidiary Unocal Myanmar Offshore with 41.1016%, up from 28.26%, and Myanmar Oil and Gas Enterprise at 21.8124%, up from 15%.

Exhibit 1: Yadana project

Project	Yadana
Concessions	Blocks M5 and M6
Area	26,140 square kilometres
Location	Gulf of Moattama, Republic of the Union of Myanmar
Operator	TotalEnergies EP Myanmar
Petroleum Fields	Yadana, Badamyar and Sein
Type of Petroleum	Natural Gas
Effective Date	9-Jul-92
Production Start-up	1-Jul-98
Partners	
- TotalEnergies EP Myanmar	31.24%
- Unocal Myanmar Offshore (UMOL)	28.26%
- PTTEP International Limited (PTTEPI)	25.50%
- Myanmar Oil & Gas Enterprise (MOGE)	15.00%

Source: PTTEP

Exhibit 2: Yadana project location



Source: [Total Energy](#)

The decision to acquire the additional stake in Yadana by PTTEP and its partners is in line with our and the market's expectations as TotalE's exit, citing the political instability in Myanmar, was to be finalised by Jun-22. However, UMO's move to continue its holdings and even acquire an additional stake surprised us as we expected Chevron to exit from Yadana in line with US sanctions against Myanmar's military government.

Yadana is a large, highly strategic gas field with an average annual gas sales volume of 770mmscfd, supplying 11% of Thailand's gas consumption and 50% of Myanmar's total gas supply.

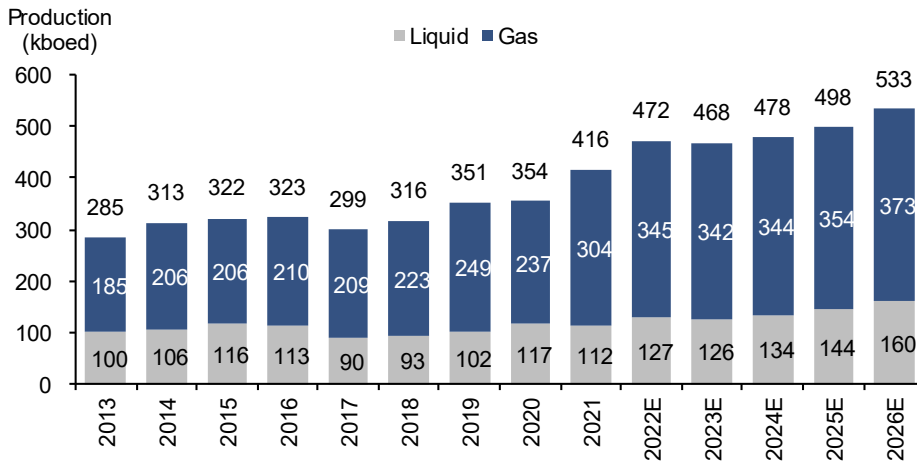
Post-acquisition of the higher stake, we estimate that PTTEP should gain 5kboed, 2% of PTTEP's total sales volume, which could translate into a 3% earnings upside for PTTEP due to its low-cost structure until 2028 when the Yadana concession will expire.

We believe the move by PTTEP is highly critical to Thailand's energy security, particularly during this period of heightened supply risks due to Russia's invasion of Ukraine that has resulted in much higher volatility and a sharp spike in the prices of many commodities, including oil, gas, and coal.

Volume growth outlook post the acquisition of Yadana

With the additional 11% stake in Yadana, we estimate that PTTEP will increase its production and sales volumes in 2022-26 by 5kboed annually, bringing its volume growth trajectory up slightly in 2022 before marginally declining in 2023 as the gas production at G1 (Erawan) is projected to drop by 400mmscfd.

Exhibit 3: Production volume breakdown by gas and liquid

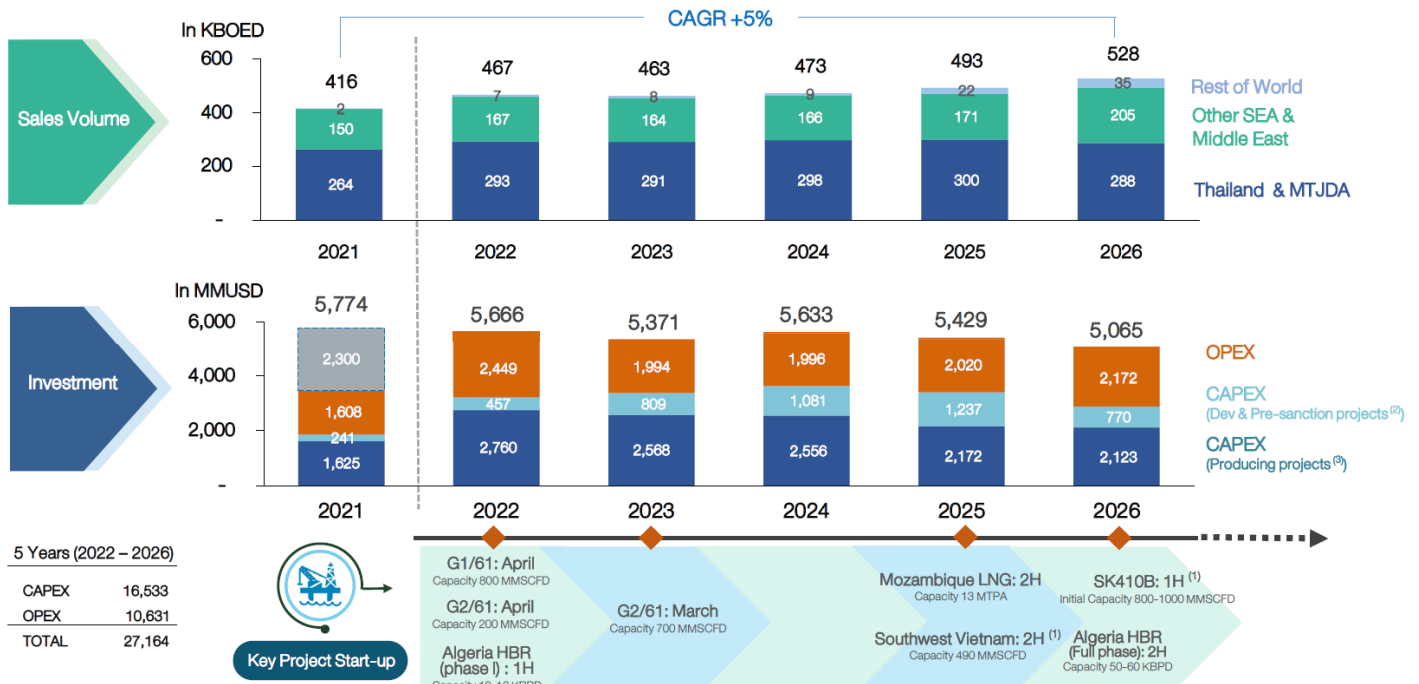


Sources: PTTEP; FSSIA estimates

Post 2023, PTTEP guided that its sales volumes would grow marginally in 2022-24 and rise again in 2025 with the commencement of the commercial operation date (COD)s of its 13mtpa LNG Mozambique project and its 490mmscfd project in Southwest Vietnam.

While the additional 11% stake in Yadana will be acquired free of cost, we expect PTTEP to invest an additional USD1m in annual capex and incur USD8m in annual operating expenses related to the operation of the Yadana gas field in 2022-28.

Exhibit 4: PTTEP’s projected sales volumes and investments



Source: PTTEP

Share price vs oil price movement

We maintain BUY and raise our target price from THB162, based on 4.5x 2021 EV/EBITDA, to THB176, based on 5.0x 2022E EV/EBITDA, to reflect: 1) our EPS upgrades by 13-19% in 2022-24 to incorporate our 29-33% higher oil price assumptions to USD100/90/90 per barrel in 2022-24; and 2) our valuation rollover to 2022.

Exhibit 5: Key changes in assumptions

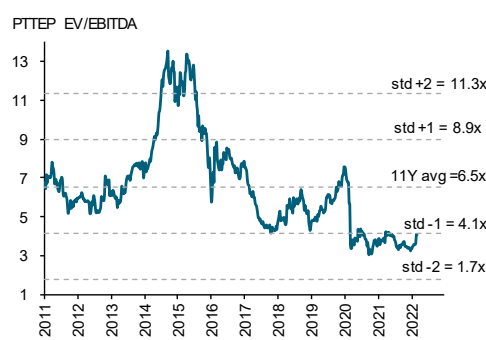
	Current			Previous			Change		
	2022E (THB m)	2023E (THB m)	2024E (THB m)	2022E (THB m)	2023E (THB m)	2024E (THB m)	2022E (%)	2023E (%)	2024E (%)
Revenue	319,977	311,971	312,059	269,145	276,764	276,842	18.9	12.7	12.7
Gross profit	241,451	223,402	231,617	208,309	202,173	209,691	15.9	10.5	10.5
Operating profit	128,631	110,126	116,273	108,196	97,698	103,151	18.9	12.7	12.7
Net profit	54,880	51,174	54,146	45,757	45,166	47,802	19.9	13.3	13.3
EPS (THB/shr.)	13.82	12.89	13.64	11.53	11.38	12.04	19.9	13.3	13.3
Key assumptions									
Brent oil price (USD/bbl)	100	90	90	75	70	70	33.3	28.6	28.6
Sales volume (boed)	471,890	468,390	498,040	471,890	463,520	493,140	0.0	1.1	1.0
ASP (USD/boe)	51.0	47.9	47.9	42.9	42.5	42.5	18.9	12.7	12.7
Gas price (USD/mmbtu)	5.6	5.5	5.5	5.6	5.5	5.5	0.0	0.0	0.0
Cost (USD/boe)	28.0	27.0	27.0	28.0	27.0	27.0	0.0	0.0	0.0

Source: FSSIA estimates

PTTEP remains our top pick in the upstream oil & gas sector for its highest domestic leverage over changes in the oil and gas prices. We estimate that every 1% change in the oil price would increase its earnings by 1.3-2.0%, all else being equal, depending on the oil volume sold.

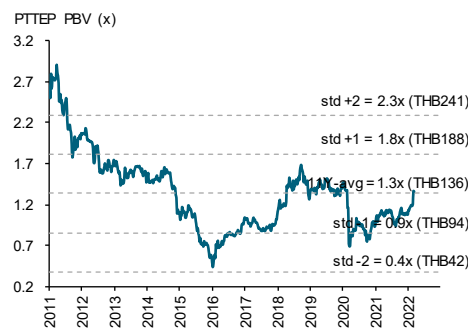
Currently trading at 4.0x 2022E EV/EBITDA, 1 std below its 11-year historical average, we think PTTEP remains an attractive oil play despite its lower leverage over oil price changes relative to other regional and global exploration & production companies.

Exhibit 6: PTTEP's EV/EBITDA band



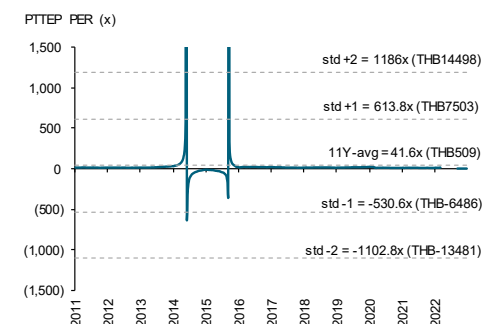
Sources: PTTEP; Bloomberg; FSSIA estimates

Exhibit 7: PTTEP's P/BV band



Sources: PTTEP; Bloomberg; FSSIA estimates

Exhibit 8: PTTEP's P/E band

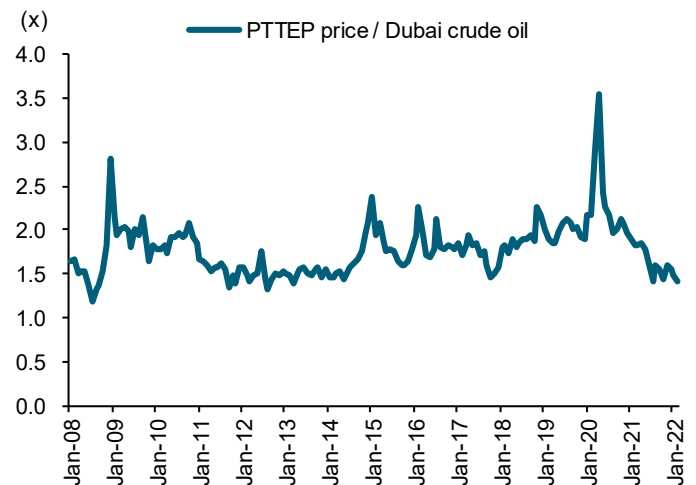
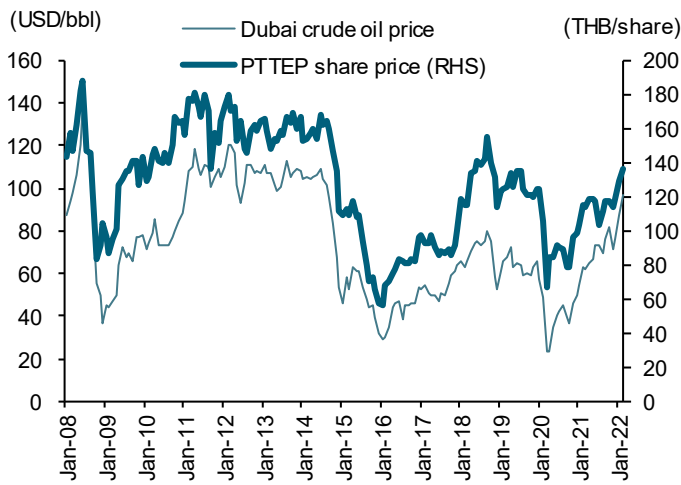


Sources: PTTEP; Bloomberg; FSSIA estimates

PTTEP's share price vs oil prices. In the past 14 months, PTTEP's share price has underperformed the movement in oil prices, which have risen significantly from USD29/bbl in Jan-20 to a peak of USD128/bbl in Mar-22. PTTEP's share price has however risen by only 2x vs the 4x increase in the oil price in the same period. Why?

Exhibit 9: PTTEP's share price vs Dubai crude oil price

Exhibit 10: PTTEP price to Dubai crude oil



Source: Bloomberg

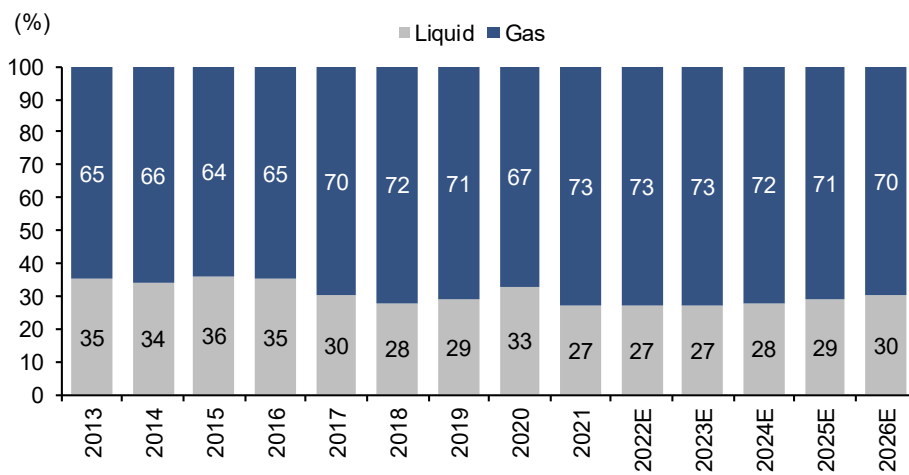
Source: Bloomberg

We believe the lag in PTTEP's share price is due to its higher proportion of gas production volume and lower oil volume. We note that PTTEP added more gas assets in Malaysia with a much lower average selling price (ASP) than its ASP for gas produced in the Gulf of Thailand and Myanmar.

As a result, the changes in the oil price should have a reduced effect on PTTEP's share price given that its earnings sensitivity to oil prices will dwindle over time as PTTEP increases the proportion of gas production volumes in its portfolio.

With its lower oil sales volume proportion projected at 27% in 2022-23, we think the correlation between PTTEP's share price and changes in the oil price will be less than in the past, which in turn could result in a higher valuation discount for PTTEP, based on our estimate. We think the valuation discount to its regional peers could rise to 15-20%, up from a 10% average over the past 15 years.

Exhibit 11: Production volume breakdown by gas and liquid (%)



Sources: PTTEP; FSSIA estimates

Financial Statements

PTT Explor & Prod

Profit and Loss (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Revenue	160,401	219,068	319,977	311,971	312,059
Cost of goods sold	(14,793)	(23,710)	(78,526)	(88,569)	(80,442)
Gross profit	145,607	195,358	241,451	223,402	231,617
Other operating income	-	-	-	-	-
Operating costs	(75,004)	(81,710)	(79,994)	(77,993)	(78,015)
Operating EBITDA	70,603	113,647	161,457	145,410	153,602
Depreciation	(26,100)	(28,118)	(32,826)	(35,284)	(37,329)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	44,503	85,530	128,631	110,126	116,273
Net financing costs	(5,987)	(7,253)	(17,096)	(6,259)	(6,258)
Associates	1,307	489	489	489	489
Recurring non-operating income	3,933	11,782	1,989	1,989	1,989
Non-recurring items	(1,021)	(9,667)	0	0	0
Profit before tax	41,428	80,392	113,523	105,856	112,004
Tax	(18,764)	(41,528)	(58,643)	(54,682)	(57,858)
Profit after tax	22,664	38,864	54,880	51,174	54,146
Minority interests	0	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	22,664	38,864	54,880	51,174	54,146
Non-recurring items & goodwill (net)	1,021	9,667	0	0	0
Recurring net profit	23,685	48,531	54,880	51,174	54,146
Per share (THB)					
Recurring EPS *	5.97	12.22	13.82	12.89	13.64
Reported EPS	5.71	9.79	13.82	12.89	13.64
DPS	4.25	6.25	8.83	8.23	8.71
Diluted shares (used to calculate per share data)	3,970	3,970	3,970	3,970	3,970
Growth					
Revenue (%)	(16.0)	36.6	46.1	(2.5)	0.0
Operating EBITDA (%)	(27.5)	61.0	42.1	(9.9)	5.6
Operating EBIT (%)	(38.4)	92.2	50.4	(14.4)	5.6
Recurring EPS (%)	(46.8)	104.9	13.1	(6.8)	5.8
Reported EPS (%)	(53.6)	71.5	41.2	(6.8)	5.8
Operating performance					
Gross margin inc. depreciation (%)	74.5	76.3	65.2	60.3	62.3
Gross margin of key business (%)	74.5	76.3	65.2	60.3	62.3
Operating EBITDA margin (%)	44.0	51.9	50.5	46.6	49.2
Operating EBIT margin (%)	27.7	39.0	40.2	35.3	37.3
Net margin (%)	14.8	22.2	17.2	16.4	17.4
Effective tax rate (%)	45.3	51.7	51.7	51.7	51.7
Dividend payout on recurring profit (%)	71.2	51.1	63.8	63.8	63.8
Interest cover (X)	8.1	13.4	7.6	17.9	18.9
Inventory days	248.2	186.5	72.3	69.4	75.5
Debtor days	58.4	33.7	50.8	78.8	73.0
Creditor days	475.6	621.6	148.0	58.1	63.2
Operating ROIC (%)	8.6	16.1	19.0	14.2	(10.3)
ROIC (%)	5.5	10.4	11.8	9.4	(6.7)
ROE (%)	6.7	12.6	12.9	11.5	11.7
ROA (%)	4.1	7.2	8.3	7.0	6.7
* Pre-exceptional, pre-goodwill and fully diluted					
Revenue by Division (THB m)					
Exploration and production	155,181	223,260	324,169	316,163	316,250
Pipeline	11,513	11,513	11,513	11,513	11,513
Others	2,875	2,875	2,875	2,875	2,875
Inter company eliminations	(9,168)	(18,579)	(18,579)	(18,579)	(18,579)

Sources: PTT Explor & Prod; FSSIA estimates

Financial Statements

PTT Explor & Prod

Cash Flow (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Recurring net profit	23,685	48,531	54,880	51,174	54,146
Depreciation	26,100	28,118	32,826	35,284	37,329
Associates & minorities	-	-	-	-	-
Other non-cash items	35,065	35,066	35,066	35,066	35,067
Change in working capital	21,694	(13,587)	(41,823)	10,298	(22)
Cash flow from operations	106,543	98,127	80,949	131,821	126,519
Capex - maintenance	-	-	-	-	-
Capex - new investment	(115,506)	(115,506)	(114,807)	(81,807)	(81,807)
Net acquisitions & disposals	176	457	838	1,301	1,301
Other investments (net)	1	0	0	0	0
Cash flow from investing	(115,329)	(115,049)	(113,969)	(80,506)	(80,506)
Dividends paid	(20,986)	(19,325)	(35,038)	(32,672)	(34,569)
Equity finance	0	0	0	0	0
Debt finance	3,457	(2,275)	27,259	(20,000)	(15,000)
Other financing cash flows	52,451	12,792	(33,654)	4,328	7,757
Cash flow from financing	34,923	(8,808)	(41,433)	(48,344)	(41,812)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	26,136	(25,730)	(74,453)	2,971	4,201
Free cash flow to firm (FCFF)	(830.97)	(10,450.16)	(26,229.24)	58,105.21	52,802.40
Free cash flow to equity (FCFE)	47,121.85	(6,404.83)	(39,414.55)	35,642.94	38,770.13

Per share (THB)

FCFF per share	(0.21)	(2.63)	(6.61)	14.64	13.30
FCFE per share	11.87	(1.61)	(9.93)	8.98	9.77
Recurring cash flow per share	21.37	28.14	30.93	30.61	31.87

Balance Sheet (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Tangible fixed assets (gross)	1,100,534	1,255,645	1,370,452	1,452,259	1,534,066
Less: Accumulated depreciation	(805,044)	(875,338)	(957,403)	(1,045,613)	(1,138,936)
Tangible fixed assets (net)	295,491	380,307	413,049	406,646	395,130
Intangible fixed assets (net)	0	0	0	0	0
Long-term financial assets	-	-	-	-	-
Invest. in associates & subsidiaries	13,523	14,408	13,596	12,783	11,971
Cash & equivalents	111,257	85,528	11,075	14,046	18,247
A/C receivable	23,752	16,715	72,266	62,394	62,412
Inventories	10,156	14,069	17,056	16,629	16,634
Other current assets	7,551	23,272	23,272	23,272	23,272
Current assets	152,716	139,584	123,669	116,342	120,565
Other assets	213,908	249,237	235,211	237,899	240,583
Total assets	675,637	783,536	785,525	773,670	768,249
Common equity	354,411	415,350	435,194	453,696	473,270
Minorities etc.	0	0	0	0	0
Total shareholders' equity	354,411	415,350	435,194	453,696	473,270
Long term debt	85,016	82,741	110,000	90,000	75,000
Other long-term liabilities	179,953	180,943	172,855	164,767	156,679
Long-term liabilities	264,969	263,684	282,855	254,767	231,679
A/C payable	31,356	49,398	14,282	13,925	13,929
Short term debt	13,208	13,208	13,208	13,208	13,208
Other current liabilities	11,693	41,897	39,986	38,075	36,164
Current liabilities	56,257	104,502	67,476	65,208	63,301
Total liabilities and shareholders' equity	675,637	783,536	785,525	773,670	768,249
Net working capital	(1,591)	(37,239)	58,325	50,296	52,225
Invested capital	521,330	606,713	720,181	707,624	699,909

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

Per share (THB)

Book value per share	89.27	104.62	109.62	114.28	119.21
Tangible book value per share	89.27	104.62	109.62	114.28	119.21

Financial strength

Net debt/equity (%)	(3.7)	2.5	25.8	19.7	14.8
Net debt/total assets (%)	(1.9)	1.3	14.3	11.5	9.1
Current ratio (x)	2.7	1.3	1.8	1.8	1.9
CF interest cover (x)	28.2	16.0	5.4	19.8	20.3

Valuation	2020	2021	2022E	2023E	2024E
Recurring P/E (x) *	24.4	11.9	10.5	11.3	10.7
Recurring P/E @ target price (x) *	29.5	14.4	12.7	13.7	12.9
Reported P/E (x)	25.5	14.9	10.5	11.3	10.7
Dividend yield (%)	2.9	4.3	6.1	5.7	6.0
Price/book (x)	1.6	1.4	1.3	1.3	1.2
Price/tangible book (x)	1.6	1.4	1.3	1.3	1.2
EV/EBITDA (x) **	8.0	5.2	4.3	4.6	4.2
EV/EBITDA @ target price (x) **	9.7	6.2	5.0	5.4	5.0
EV/invested capital (x)	1.1	1.0	1.0	0.9	0.9

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

Sources: PTT Explor & Prod; FSSIA estimates

Corporate Governance report of Thai listed companies 2020

EXCELLENT LEVEL										
AAV	ADVANC	AF	AIRA	AKP	AKR	ALT	AMA	AMATA	AMATAV	ANAN
AOT	AP	ARIP	ARROW	ASP	BAFS	BANPU	BAY	BCP	BCPG	BDMS
BEC	BEM	BGRIM	BIZ	BKI	BLA	BOL	BPP	BRR	BTS	BWG
CENTEL	CFRESH	CHEWA	CHO	CIMBT	CK	CKP	CM	CNT	COL	COMAN
COTTO	CPALL	CPF	CPI	CPN	CSS	DELTA	DEMCO	DRT	DTAC	DTC
DV8	EA	EASTW	ECF	ECL	EGCO	EPG	ETE	FNS	FPI	FPT
FSMART	GBX	GC	GCAP	GEL	GFPT	GGC	GPSC	GRAMMY	GUNKUL	HANA
HARN	HMPRO	ICC	ICHI	III	ILINK	INTUCH	IRPC	IVL	JKN	JSP
JWD	K	KBANK	KCE	KKP	KSL	KTB	KTC	LANNA	LH	LHFG
LIT	LPN	MAKRO	MALEE	MBK	MBKET	MC	MCOT	METCO	MFEC	MINT
MONO	MOONG	MSC	MTC	NCH	NCL	NEP	NKI	NOBLE	NSI	NVD
NYT	OISHI	ORI	OTO	PAP	PAP	PCSGH	PDJ	PG	PHOL	PLANB
PLAT	PORT	PPS	PR9	PREB	PRG	PRM	PSH	PHL	PTG	PTT
PTTEP	PTTGC	PYLON	Q-CON	QH	QTC	RATCH	RS	S	S & J	SAAM
SABINA	SAMART	SAMTEL	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SDC
SEAFCO	SEOIL	SE-ED	SELIC	SENA	SIRI	SIS	SITHAI	SMK	SMPC	SNC
SONIC	SORKON	SPALI	SPI	SPRC	SPVI	SSSC	SST	STA	SUSCO	SUTHA
SVI	SYMC	SYNTEC	TACC	TASCO	TCAP	TFMAMA	THANA	THANI	THCOM	THG
THIP	THRE	THREL	TIP	TIPCO	TISCO	TK	TKT	TTB	TMILL	TNDT
TNL	TOA	TOP	TPBI	TQM	TRC	TRC	TSC	TSR	TSTE	TSTH
TTCL	TTW	TU	TVD	TVI	TVO	TWPC	U	UAC	UBIS	UV
VGI	VIH	WACOAL	WAVE	WHA	WHAUP	WICE	WINNER	TRUE		

VERY GOOD LEVEL										
2S	ABM	ACE	ACG	ADB	AEC	AEONTS	AGE	AH	AHC	AIT
ALLA	AMANAHA	AMARIN	APCO	APCS	APURE	AQUA	ASAP	ASEFA	ASIA	ASIAN
ASIMAR	ASK	ASN	ATP30	AUCT	AWC	AYUD	B	BA	BAM	BBL
BFIT	BGC	BJC	BJCHI	BROOK	BTW	CBG	CEN	CGH	CHARAN	CHAYO
CHG	CHOTI	CHOW	CI	CIG	CMC	COLOR	COM7	CPL	CRC	CRD
CSC	CSP	CWT	DCC	DCON	DDD	DOD	DOHOME	EASON	EE	ERW
ESTAR	FE	FLOYD	FN	FORTH	FSS	FTE	FVC	GENCO	GJS	GL
GLAND	GLOBAL	GLOCON	GPI	GULF	GYT	HPT	HTC	ICN	IFS	ILM
IMH	INET	INSURE	IRC	IRCP	IT	ITD	ITEL	J	JAS	JCK
JCKH	JMART	JMT	KBS	KCAR	KGI	KIAT	KOOL	KTIS	KWC	KWM
L&E	LALIN	LDC	LHK	LOXLEY	LPH	LRH	LST	M	MACO	MAJOR
MBAX	MEGA	META	MFC	MGT	MILL	MITSB	MK	MODERN	MTI	MVP
NETBAY	NEX	NINE	NTV	NWR	OCC	OGC	OSP	PATO	PB	PDG
PDI	PICO	PIMO	PJW	PL	PM	PPP	PRIN	PRINC	PSTC	PT
QLT	RCL	RICHY	RML	RPC	RWI	S11	SALEE	SAMCO	SANKO	SAPPE
SAWAD	SCI	SCP	SE	SEG	SFP	SGF	SHR	SIAM	SINGER	SKE
SKR	SKY	SMIT	SMT	SNP	SPA	SPC	SPCG	SR	SRICHA	SSC
SSF	STANLY	STI	STPI	SUC	SUN	SYNEX	T	TAE	TAKUNI	TBSP
TCC	TCMC	TEAM	TEAMG	TFG	TIGER	TITLE	TKN	TKS	TM	TMC
TMD	TMI	TMT	TNITY	TNP	TNR	TOG	TPA	TPAC	TPCORP	TPOLY
TPS	TRITN	TRT	TRU	TSE	TVT	TWP	UEC	UMI	UOBKH	UP
UPF	UPOIC	UT	UTP	UWC	VL	VNT	VPO	WIJK	WP	XO
YUASA	ZEN	ZIGA	ZMICO							

GOOD LEVEL										
7UP	A	ABICO	AJ	ALL	ALUCON	AMC	APP	ARIN	AS	AU
B52	BC	BCH	BEAUTY	BGT	BH	BIG	BKD	BLAND	BM	BR
BROCK	BSBM	BSM	BTNC	CAZ	CCP	CGD	CITY	CMAN	CMO	CMR
CPT	CPW	CRANE	CSR	D	EKH	EP	ESSO	FMT	GIFT	GREEN
GSC	GTB	HTECH	HUMAN	IHL	INOX	INSET	IP	JTS	JUBILE	KASET
KCM	KKC	KUMWEL	KUN	KWG	KYE	LEE	MATCH	MATI	M-CHAI	MCS
MDX	MJD	MM	MORE	NC	NDR	NER	NFC	NNCL	NPK	NUSA
OCEAN	PAF	PF	PK	PLE	PMTA	POST	PPM	PRAKIT	PRECHA	PRIME
PROUD	PTL	RBF	RCI	RJH	ROJNA	RP	RPH	RSP	SF	SFLEX
SGP	SISB	SKN	SLP	SMART	SOLAR	SPG	SQ	SSP	STARK	STC
SUPER	SVOA	TC	TCCC	THMUI	TIW	TNH	TOPP	TPCH	TIPIP	TPLAS
TTI	TYCN	UKEM	UMS	VCOM	VRANDA	WIN	WORK	WPH		

Description

Score Range

Excellent

90-100

Very Good

80-89

Good

70-79

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 2020

CERTIFIED										
2S	ADVANC	AI	AIE	AIRA	AKP	AMA	AMANAHA	AP	AQUA	ARROW
ASK	ASP	AYUD	B	BAFS	BANPU	BAY	BBL	BCH	BCP	BCPG
BGC	BGRIM	BJCHI	BKI	BLA	BPP	BROOK	BRR	BSBM	BTS	BWG
CEN	CENTEL	CFRESH	CGH	CHEWA	CHOTI	CHOW	CIG	CIMBT	CM	CMC
COL	COM7	CPALL	CPF	CPI	CPN	CSC	DCC	DELTA	DEMCO	DIMET
DRT	DTAC	DTC	EASTW	ECL	EGCO	FE	FNS	FPI	FPT	FSS
FTE	GBX	GC	GCAP	GEL	GFPT	GGC	GJS	GPSC	GSTEEL	GUNKUL
HANA	HARN	HMPRO	HTC	ICC	ICHI	IFS	INET	INSURE	INTUCH	IRPC
ITEL	IVL	K	KASET	KBANK	KBS	KCAR	KCE	KGI	KKP	KSL
KTB	KTC	KWC	L&E	LANNA	LHFG	LHK	LPN	LRH	M	MAKRO
MALEE	MBAX	MBK	MBKET	MC	MCOT	MFC	MFEC	MINT	MONO	MOONG
MPG	MSC	MTC	MTI	NBC	NEP	NINE	NKI	NMG	NNCL	NSI
NWR	OCC	OCEAN	OGC	ORI	PAP	PATO	PB	PCSGH	PDG	PDI
PDJ	PE	PG	PHOL	PL	PLANB	PLANET	PLAT	PM	PPP	PPPM
PPS	PREB	PRG	PRINC	PRM	PSH	PSL	PSTC	PT	PTG	PTT
PTTEP	PTTGC	PYLON	Q-CON	QH	QLT	QTC	RATCH	RML	RWI	S & J
SABINA	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SEAOIL	SE-ED	SELIC
SENA	SGP	SIRI	SITHAI	SMIT	SMK	SMPC	SNC	SNP	SORKON	SPACK
SPC	SPI	SPRC	SRICHA	SSF	SSSC	SST	STA	SUSCO	SVI	SYNTEC
TAE	TAKUNI	TASCO	TBSP	TCAP	TCMC	TFG	TFI	TFMAMA	THANI	THCOM
THIP	THRE	THREL	TIP	TIPCO	TISCO	TKT	TTB	TMD	TMILL	TMT
TNITY	TNL	TNP	TNR	TOG	TOP	TPA	TPCORP	TPP	TRU	TSC
TSTH	TTCL	TU	TVD	TVI	TVO	TWPC	U	UBIS	UEC	UKEM
UOBKH	UWC	VGI	VIH	VNT	WACOAL	WHA	WHAUP	WICE	WIJK	XO
ZEN	TRUE									
DECLARED										
7UP	ABICO	AF	ALT	AMARIN	AMATA	AMATAV	ANAN	APURE	B52	BKD
BM	BROCK	BUI	CHO	CI	COTTO	DDD	EA	EFORL	EP	ERW
ESTAR	ETE	EVER	FSMART	GPI	ILINK	IRC	J	JKN	JMART	JMT
JSP	JTS	KWG	LDC	MAJOR	META	NCL	NOBLE	NOK	PK	PLE
ROJNA	SAAM	SAPPE	SCI	SE	SHANG	SINGER	SKR	SPALI	SSP	STANLY
SUPER	SYNEX	THAI	TKS	TOPP	TRITN	TTA	UPF	UV	WIN	ZIGA

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:

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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, CFA, FRM, ERP 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

PTT Explor & Prod (PTTEP TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
29-Oct-2019	HOLD	123.00	30-Apr-2020	BUY	85.00	11-Feb-2021	BUY	136.00
11-Mar-2020	HOLD	81.00	12-Jun-2020	BUY	101.00	05-Jul-2021	BUY	158.00
26-Mar-2020	BUY	81.00	30-Dec-2020	BUY	116.00	28-Jan-2022	BUY	162.00

Suwat Sinsadok, CFA, FRM, ERP started covering this stock from 12-Jun-2020

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
PTT Explor & Prod	PTTEP TB	THB 145.50	BUY	Risks our TP, which is based on EV/EBITDA, are a sharp decline in oil price and a potential earnings downside from government intervention.

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 Finasia Syrus Securities Public Company Limited

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All share prices are as at market close on 15-Mar-2022 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.