## 25 JANUARY 2022

#### EQUITY RESEARCH - COMPANY REPORT

# PTT EXPLOR & PROD

THAILAND / OIL & GAS

# Myanmar risk from Total's exit

- We see both sales volume upside and cost downside risks to PTTEP from the withdrawal of TotalEnergies from Yadana.
- We think PTTEP may acquire more than the pro rata-based stake of 25% for Yetagun in order to ensure gas supply security.
- Maintain BUY with TP of THB158.

#### Total's exit from Yadana poses risks to PTTEP

On 21 January 2022, PTTEP announced that TotalEnergies EP Myanmar, an operator and a major shareholder of the Yadana gas field project with a 31.24% stake, intends to withdraw both as a shareholder and operator of Yadana within six months, citing the political instability in Myanmar. We see both sales volume upside and cost downside risks to PTTEP from the withdrawal of TotalEnergies from Yadana, given that seven years remain in the field's concession.

#### Sales volume upside from additional stake acquired

Under the current concession for Yadana, PTTEP is eligible to acquire an additional 25% stake based on its remaining stake in Yadana on a pro rata basis of 36.6% (25% out of remaining 68.25% stake, excluding the 31.24% stake of TotalEnergies). This could bring PTTEP's stake to 50%. If PTTEP acquires an additional 25% stake to own a 50% stake in total, we estimate that Yadana's gas production and sales volume would contribute up to 7-10k barrels of oil equivalent (boed), or 2-3% of PTTEP's total sales volume in 2022-23, which could translate to a 3-5% earnings upside to PTTEP, thanks to Yadana's low-cost structure.

#### Cost downside from cost structure and decommissioning

Since the concession for Yadana gas field will expire by 2028 and Yetagun's gas production is approaching the end of its production life due to natural depletion, we think that PTTEP, as a state-owned enterprise, may acquire more than the pro rata-based stake of 25% for Yadana in order to ensure gas supply security. Thus, we think PTTEP could see risks from 1) cost structure changes to Yadana during 2022-28; and 2) the potential downside from ballooning decommission costs at end-2028.

#### Top pick in Thailand's upstream oil & gas sector

PTTEP is our top pick in the upstream oil & gas sector for its highest leverage to change oil and gas prices. We estimate that every 1% change in oil price would increase its earnings by 1.3-20%, depending on the oil volume sold. While there is a potential downside from the recent change in Yadana's shareholding, we believe PTTEP's net profit growth will remain sanguine in 2022 based on its strong sales volume growth and the oil and gas price uptrend.



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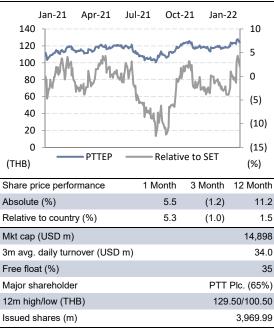
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THB158.00
THB124.00
+27.4%
THB158.00
UNCHANGED
+10.1%

## **KEY STOCK DATA**

PTTEP TB

YE Dec (THB m)	2020	2021E	2022E	2023E
Revenue	160,401	218,352	261,837	260,318
Net profit	22,664	44,667	46,059	45,782
EPS (THB)	5.71	11.25	11.60	11.53
vs Consensus (%)	-	8.8	(9.6)	(4.6)
EBITDA	70,603	114,586	111,417	113,413
Core net profit	23,685	44,667	46,059	45,782
Core EPS (THB)	5.97	11.25	11.60	11.53
Chg. In EPS est. (%)	-	-	-	-
EPS growth (%)	(46.8)	88.6	3.1	(0.6)
Core P/E (x)	20.8	11.0	10.7	10.8
Dividend yield (%)	3.4	5.4	5.6	5.6
EV/EBITDA (x)	6.8	4.9	5.3	5.0
Price/book (x)	1.4	1.3	1.3	1.2
Net debt/Equity (%)	(3.7)	19.0	25.2	17.1
ROE (%)	6.7	12.3	12.1	11.4



Sources: Bloomberg consensus; FSSIA estimates

PREPARED BY FSS INTERNATIONAL INVESTMENT ADVISORY SECURITIES CO LTD (FSSIA). ANALYST CERTIFICATION AND IMPORTANT DISCLOSURES CAN BE FOUND AT THE END OF THIS REPORT

#### **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 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



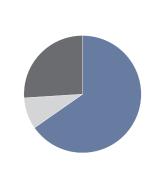
- Exploration and production 96.7 %
- Pipeline 7.2 %
- Others 1.8 %
- Inter company eliminations -5.7 %

Source: PTT Explor & Prod

#### **Major shareholders**

- PTT Plc. 65.3 %
- Thai NDVR 8.7 %





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 price and a potential earnings downside from government intervention.

#### **Event calendar**

 Date
 Event

 Jan 2022
 4Q21/2021 results announcement

#### Key assumptions

	2021E	2022E	2023E
Brent oil price (USD/bbl)	68	65	60
Sales volume (boed)	424,740	513,890	533,890
ASP (USD/boe)	41.9	41.5	39.8
Gas price (USD/mmbtu)	5.5	5.6	5.5
Cost (USD/boe)	32.5	32.4	33.4

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



## Myanmar risk from Total's exit

On 21 January 2022, PTTEP announced that TotalEnergies EP Myanmar, an operator and a major shareholder of the Yadana gas field project with a 31.24% stake, intends to withdraw both as a shareholder and operator of Yadana within six months, citing the political instability in Myanmar.

#### 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%
- Myanma Oil and Gas Enterprise (MOGE)	15.00%

# Exhibit 2: Yadana project location



Source: PTTEP

Source: Total Energy

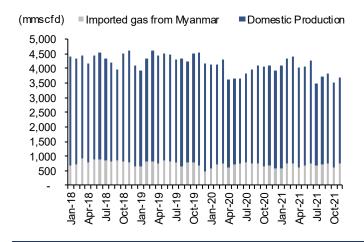
As the third largest shareholder after TotalEnergies (31.2375%) and Unocal Myanmar Offshore Company (UMOCL), a subsidiary of Chevron (28.2625%), PTTEP is now considering whether to take control of TotalEnergies' stake, which will be distributed on a pro rata basis under the current concession.

#### Volume upside vs cost downside

We see both upside and downside risks to PTTEP from the withdrawal of TotalEnergies from Yadana.

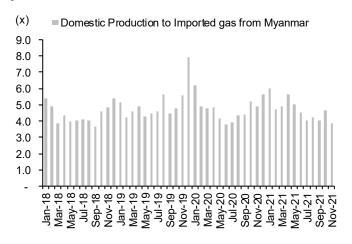
**Potential upside.** Under the current concession for Yadana, PTTEP is eligible to acquire an additional 25% stake based on its remaining stake in Yadana on a pro rata basis of 36.6% (25% out of remaining 68.25% stake, excluding the 31.24% stake of TotalEnergies). This could bring PTTEP's stake to 50% (current 25% plus 25% (36.6% of TotalEnergies' 31.24%).

#### Exhibit 3: Thailand gas production and imports



Source: EPPO

# Exhibit 4: Domestic production to imported gas from Myanmar

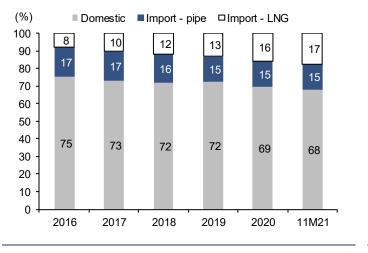


Source: EPPO

# **FINANSIA**

Yadana is one of the three gas fields currently owned by PTTEP in Myanmar, with the other two fields being Yetagun and Zawtika. The combined gas supply delivered via pipeline from Myanmar to Thailand ranges between 600-980mmscfd, representing around 20% of Thailand's total average gas supply from 2018 to Nov-21, according to the Energy Planning and Policy Office (EPPO).

#### Exhibit 5: Thailand's gas supply breakdown by source (%)



#### (%) (mmscfd) Domestic Import - pipe □ Import - LNG Growth (RHS) 6,000 4.0 5.000 2.0 4,000 0.0 3.000 -2.0 2,000 -4.0 1,000 -6.0 0 -8.0 2016 2017 2018 2019 2020 11M21

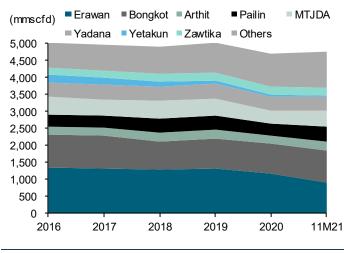
Exhibit 6: Thailand's gas supply breakdown by source

#### Source: EPPO

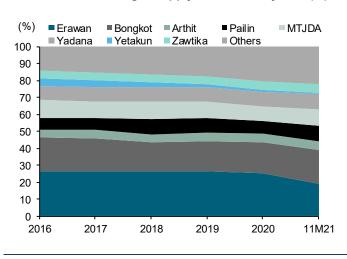
Source: EPPO

While Yadana produces around 700-800mmscfd of gas and around 400-500mmscfd is exported to Thailand at 50-75% of total production under the current gas sales agreement, the remaining two gas fields of Yetagun and Zawtika have seen much lower gas production levels than Yadana's at 60-100mmscfd for Yetagun (19.3% owned by PTTEP) and 200-300mmscfd from Zawtika (80% owned by PTTEP).





#### Exhibit 8: Thailand's gas supply breakdown by field (%)



#### Source: EPPO

Source: EPPO

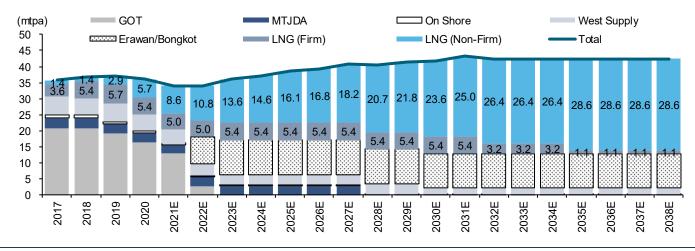
Hence, Yadana is the most important field for gas supply to Thailand from Myanmar. If PTTEP acquires an additional 25% stake to own a 50% stake in total, we estimate that Yadana's gas production and sales volume would contribute up to 7-10k boed, or 2-3% of PTTEP's total sales volume in 2022-23, which could translate to a 3-5% earnings upside to PTTEP, thanks to Yadana's low-cost structure.

**Potential downside.** However, given that the concession for Yadana gas field will expire by 2028 and Yetagun's gas production is now approaching the end of its production life due to natural depletion, we think it is likely that PTTEP, as a state-owned enterprise, may acquire more than the pro rata-based stake of 25% for Yadana in order to ensure gas supply security.

According to <u>The Maritime Executive</u>, Yadana has been controversial ever since TotalEnergies partnered with MOGE to develop the Yadana gas field in the 1990s. After the February 2021 military coup, Total indicated that Myanmar had seen much worsening human rights abuses and a deterioration of the rule of law, leading to Total walking away from the country.

Chevron, the second largest major shareholder of Yadana, under the increasing pressure of the US government's sanctions against Myanmar's junta government, is now considering exiting the country. If Chevron exits Yadana, we think it is likely that PTTEP may have to take the additional 28.26% stake owned by UMOL, bringing PTTEP's stake up to 78.26% and becoming the major shareholder and operator of Yadana.

#### Exhibit 9: Gas supply projection under Gas Plan 2018



#### Source: EPPO

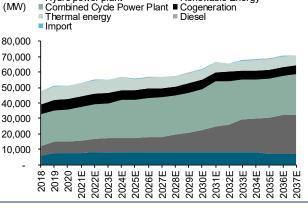
While we see a limited risk for PTTEP as a key operator of Zawtika gas field, we think PTTEP could see risks from 1) cost structure changes to Yadana during 2022-28, its expiration period, as there is no clear law governing the cost methodologies for the field; and 2) the potential downside from ballooning decommission costs at end-2028. The case in place is the long dispute over decommissioning costs between Chevron, a former operator and major shareholder of Erawan gas field, and PTTEP during the transition period to PTTEP as a new operator of Erawan, leading to a delay in PTTEP's entry to Erawan in preparation to operate and invest in the field.

#### Exhibit 10: Yetagun project

Project	Yetagun
Concessions	Blocks M12, M13 and M14
Area	24,130 square kilometres
Location	Gulf of Martaban, Republic of the Union of Myanmar
Operator	Petronas Carigali Myanmar (Hong Kong) Ltd.
Petroleum Fields	Yetagun
Type of Petroleum	Natural gas and condensate
Production Start-up	1-Apr-00
Partners	
- Petronas Carigali Myanmar (Hong Kong) Ltd.	40.91%
- Myanma Oil and Gas Enterprise (MOGE)	20.45%
- Nippon Oil Exploration (Myanmar) Ltd.	19.32%
- PTTEP International Limited (PTTEPI)	19.31%

Source: PTTEP

Exhibit 11: Thailand's power capacity by power plant type Hydro power plant Renewable Energy



Source: EPPO

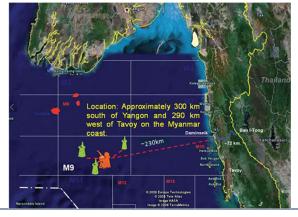


In addition, Thailand has continued to rely on gas-fired power plants as a major power source for the country, accounting for over 60% of total capacity, including combined cycle, cogeneration, and thermal power plants. Hence, any potential gas supply disruption from the gas imported from Myanmar may require PTTEP to invest more in Yadana, effectively increasing the risk for uncertain concession and decommissioning costs, in our view.

#### Exhibit 12: Zawtika project

Project	Zawtika
Concessions	Blocks M9 and Small North East Part of M11
Area	12,306 square kilometer
Location	Gulf of Moattama, Republic of the Union of Myanmar
Operator	PTTEP International Limited (PTTEPI)
Petroleum Fields	Zawtika, Kakonna and Gawthaka
Type of Petroleum	Natural Gas
Effective Date	12-Nov-03
Partners	
- PTTEP International Limited (PTTEPI)	80.00%
- Myanma Oil and Gas Enterprise (MOGE)	20.00

#### Exhibit 13: Zawtika project location



Source: PTTEP

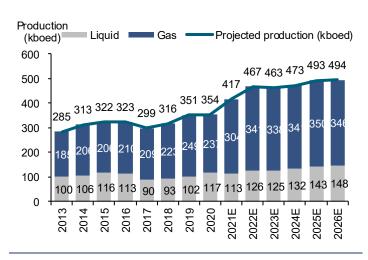
Source: Offshore-technology

#### Top pick in Thailand's oil & gas sector

PTTEP is our top pick in the upstream oil & gas sector for its highest leverage to change oil and gas prices. We estimate that every 1% change in oil price would increase its earnings by 1.3-20%, depending on the oil volume sold.

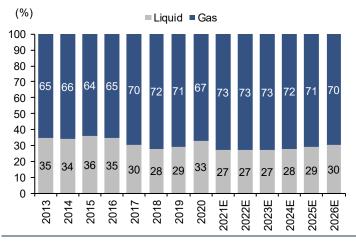
While there is a potential downside from the recent change in Yadana's shareholding, we believe PTTEP's net profit growth will remain sanguine in 2022 based on its strong sales volume growth and the oil and gas price uptrend.





Sources: PTTEP; FSSIA estimates





Sources: PTTEP; FSSIA estimates

### **Financial Statements**

PTT Explor & Prod

Profit and Loss (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023E
Revenue	191,053	160,401	218,352	261,837	260,318
Cost of goods sold	(18,946)	(14,793)	(49,178)	(84,961)	(81,826)
Gross profit	172,107	145,607	169,174	176,877	178,493
Other operating income	-	-	-	-	-
Operating costs	(74,681)	(75,004)	(54,588)	(65,459)	(65,080)
Operating EBITDA	97,426	70,603	114,586	111,417	113,413
Depreciation	(25,124)	(26,100)	(28,948)	(31,819)	(34,276)
Goodwill amortisation	0	0	0	0	C
Operating EBIT	72,301	44,503	85,638	79,599	79,137
Net financing costs	(1,235)	(5,987)	(14,000)	(5,640)	(5,640)
Associates	380	1,307	1,307	1,307	1,307
Recurring non-operating income	(5,564)	3,933	2,807	2,807	2,807
Non-recurring items	4,252	(1,021)	2,007	2,007	2,007
Profit before tax	4,232 69,754	<b>41,428</b>	74,444	76,766	76,304
	-	-	-		-
Tax Bas Star from the	(20,952)	(18,764)	(29,778)	(30,706)	(30,522)
Profit after tax	48,803	22,664	44,667	46,059	45,782
Minority interests	0	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	48,803	22,664	44,667	46,059	45,782
Non-recurring items & goodwill (net)	(4,252)	1,021	0	0	0
Recurring net profit	44,550	23,685	44,667	46,059	45,782
Per share (THB)					
Recurring EPS *	11.22	5.97	11.25	11.60	11.53
Reported EPS	12.29	5.71	11.25	11.60	11.53
DPS	8.25	4.25	6.75	6.96	6.92
Diluted shares (used to calculate per share data)	3,970	3,970	3,970	3,970	3,970
Growth					
Revenue (%)	11.2	(16.0)	36.1	19.9	(0.6)
Operating EBITDA (%)	9.5	(27.5)	62.3	(2.8)	1.8
Operating EBIT (%)	11.1	(38.4)	92.4	(7.1)	(0.6)
Recurring EPS (%)	23.0	(46.8)	88.6	3.1	(0.6)
Reported EPS (%)	34.8	(53.6)	97.1	3.1	(0.6)
Operating performance		. ,			. ,
Gross margin inc. depreciation (%)	76.9	74.5	64.2	55.4	55.4
Gross margin of key business (%)	76.9	74.5	64.2	55.4	55.4
Operating EBITDA margin (%)	51.0	44.0	52.5	42.6	43.6
Operating EBIT margin (%)	37.8	27.7	39.2	30.4	30.4
Net margin (%)	23.3	14.8	20.5	17.6	17.6
Effective tax rate (%)	30.0	45.3	40.0	40.0	40.0
Dividend payout on recurring profit (%)					
	73.5	71.2	60.0	60.0	60.0 14 5
Interest cover (X)	54.1	8.1	6.3	14.6	14.5
Inventory days	184.2	248.2	80.9	55.0	62.1
Debtor days	63.4	58.4	40.5	58.4	78.0
Creditor days	143.2	475.6	152.5	46.0	52.0
Operating ROIC (%)	13.5	8.6	15.7	12.0	11.0
ROIC (%)	7.6	5.5	9.3	7.8	7.6
ROE (%)	11.9	6.7	12.3	12.1	11.4
ROA (%)	6.9	4.1	7.9	7.3	7.3
* Pre-exceptional, pre-goodwill and fully diluted					
Revenue by Division (THB m)	2019	2020	2021E	2022E	2023E
Exploration and production	194,999	155,181	222,543	266,029	264,510
Pipeline	11,439	11,513	11,513	11,513	11,513
Others	2,653	2,875	2,875	2,875	2,875
Inter company eliminations	(18,039)	(9,168)	(18,579)	(18,579)	(18,579)

Sources: PTT Explor & Prod; FSSIA estimates

## **Financial Statements**

PTT Explor & Prod

h Flow (THB m) Year Ending Dec urring net profit reciation bociates & minorities ur non-cash items nge in working capital h flow from operations ex - maintenance ex - new investment acquisitions & disposals ur investments (net) h flow from investing lends paid ty finance ur financing cash flows h flow from financing urecurring cash flows ur adjustments other adjustments ement in cash cash flow to firm (FCFF)	2019 44,550 25,124 - 35,065 34,563 139,303 - (115,506) 192 0 (115,314) (21,655) 0 31,659 (52,064) (42,061) - 0	2020 23,685 26,100 - 35,065 (17,958) <b>66,891</b> - (115,506) 176 1 (115,329) (20,986) 0 3,457 92,102 74,574	2021E 44,667 28,948 - 35,066 (27,045) 81,636 - (114,807) 457 0 (114,350) (26,800) 0 4,984	2022E 46,059 31,819 - 35,066 (12,139) 100,805 - (114,807) 838 0 (113,969) (27,636) 0	2023E 45,782 34,276 7,152 122,276 (81,807 838 (80,969) (27,469
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nge in working capital <b>n flow from operations</b> ex - maintenance ex - new investment acquisitions & disposals or investments (net) <b>n flow from investing</b> lends paid ty finance : finance : or financing cash flows <b>n flow from financing</b> precurring cash flows or adjustments other adjustments ement in cash	34,563 <b>139,303</b> (115,506) 192 0 <b>(115,314)</b> (21,655) 0 31,659 (52,064) <b>(42,061)</b>	(17,958) <b>66,891</b> - (115,506) 176 1 <b>(115,329)</b> (20,986) 0 3,457 92,102	(27,045) <b>81,636</b> - (114,807) 457 0 <b>(114,350)</b> (26,800) 0	(12,139) <b>100,805</b> - (114,807) 838 0 <b>(113,969)</b> (27,636)	7,152 <b>122,276</b> (81,807 838 ( <b>80,969</b> )
h flow from operations ex - maintenance ex - new investment acquisitions & disposals ir investments (net) h flow from investing lends paid ty finance finance ir finance ir financing cash flows h flow from financing precurring cash flows ar adjustments other adjustments ement in cash	<b>139,303</b> (115,506) 192 0 ( <b>115,314</b> ) (21,655) 0 31,659 (52,064) ( <b>42,061</b> )	66,891 (115,506) 176 1 (115,329) (20,986) 0 3,457 92,102	<b>81,636</b> (114,807) 457 0 (114,350) (26,800) 0	100,805 (114,807) 838 0 (113,969) (27,636)	122,276 (81,807 838 ( (80,969)
ex - maintenance ex - new investment acquisitions & disposals ir investments (net) in flow from investing lends paid ty finance finance ir financing cash flows in flow from financing recurring cash flows ar adjustments other adjustments ement in cash	(115,506) 192 0 (115,314) (21,655) 0 31,659 (52,064) (42,061)	(115,506) 176 1 (115,329) (20,986) 0 3,457 92,102	(114,807) 457 0 (114,350) (26,800) 0	(114,807) 838 0 (113,969) (27,636)	(81,807) 838 ( <b>(80,969</b> )
ex - new investment acquisitions & disposals ir investments (net) in flow from investing lends paid ty finance if finance ir financing cash flows in flow from financing recurring cash flows ar adjustments other adjustments ement in cash	192 0 (115,314) (21,655) 0 31,659 (52,064) (52,064) (42,061)	176 1 (115,329) (20,986) 0 3,457 92,102	457 0 (114,350) (26,800) 0	838 0 (113,969) (27,636)	838 ( (80,969)
acquisitions & disposals er investments (net) <b>h flow from investing</b> lends paid ty finance finance er financing cash flows <b>h flow from financing</b> recurring cash flows er adjustments other adjustments ement in cash	192 0 (115,314) (21,655) 0 31,659 (52,064) (52,064) (42,061)	176 1 (115,329) (20,986) 0 3,457 92,102	457 0 (114,350) (26,800) 0	838 0 (113,969) (27,636)	838 ( (80,969)
er investments (net) h flow from investing lends paid ty finance finance or financing cash flows h flow from financing recurring cash flows er adjustments other adjustments ement in cash	0 (115,314) (21,655) 0 31,659 (52,064) (52,064) (42,061)	1 (115,329) (20,986) 0 3,457 92,102	0 (114,350) (26,800) 0	0 <b>(113,969)</b> (27,636)	( <b>80,969</b> )
n flow from investing lends paid ty finance finance or financing cash flows <b>h flow from financing</b> recurring cash flows or adjustments other adjustments ement in cash	(115,314) (21,655) 0 31,659 (52,064) (42,061)	(115,329) (20,986) 0 3,457 92,102	<b>(114,350)</b> (26,800) 0	<b>(113,969)</b> (27,636)	(80,969
lends paid ty finance finance er financing cash flows h flow from financing recurring cash flows er adjustments other adjustments ement in cash	(21,655) 0 31,659 (52,064) (42,061)	(20,986) 0 3,457 92,102	(26,800) 0	(27,636)	
ty finance finance er financing cash flows h flow from financing recurring cash flows er adjustments other adjustments ement in cash	0 31,659 (52,064) <b>(42,061)</b>	0 3,457 92,102	0		
finance frinancing cash flows n flow from financing recurring cash flows er adjustments other adjustments ement in cash	31,659 (52,064) (42,061)	3,457 92,102			((
er financing cash flows n flow from financing recurring cash flows er adjustments other adjustments ement in cash	(52,064) (42,061)	92,102		5,000	(20,000
n flow from financing recurring cash flows er adjustments other adjustments ement in cash	(42,061)		(24,288)	13,128	14,805
rrecurring cash flows or adjustments other adjustments ement in cash	-		(46,104)	(9,508)	(32,664
er adjustments other adjustments ement in cash	Ω	-	-	-	
other adjustments ement in cash	0	0	0	0	C
ement in cash	0	0	0	0	C
each flow to firm (ECEE)	(18,072)	26,136	(78,818)	(22,672)	8,643
	31,279.40	(40,482.25)	(25,923.41)	(6,373.71)	48,098.11
cash flow to equity (FCFE)	3,582.99	47,121.57	(52,018.40)	4,964.02	36,112.84
share (THB)					
snare (тнв) F per share	7.88	(10.20)	(6.53)	(1.61)	12.12
E per share	0.90	11.87	(13.10)	1.25	9.10
urring cash flow per share	26.38	21.37	27.38	28.45	29.00
nce Sheet (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023E
jible fixed assets (gross) : Accumulated depreciation	1,061,295 (739,794)	1,100,534 (805,044)	1,215,341 (877,415)	1,330,148 (956,961)	1,411,955 (1,042,652
•	(739,794) 321,501				
gible fixed assets (net)	-	295,491	337,927	373,187	369,303
ngible fixed assets (net)	0	0	0	0	(
-term financial assets	- 13,675	- 13,523	- 13,992	- 14,461	14,929
st. in associates & subsidiaries	85,122	111,257	32,439	9,767	14,923
ո & equivalents receivable					
	27,599	23,752	24,657	59,135	52,064
ntories	9,961	10,156	11,639	13,957	13,876
r current assets	19,443	7,551	7,551	7,551	7,55
ent assets	142,125	152,716	76,286	90,410	91,901
r assets	192,163	213,908	238,677	204,189	194,359
l assets	669,464	675,637	666,881	682,247	670,493
mon equity	357,059	354,411	372,280	390,703	409,016
rities etc.	0	0	0	0	(
I shareholders' equity	357,059	354,411	372,280	390,703	409,016
term debt	81,559	85,016	90,000	95,000	75,000
r long-term liabilities	169,005	179,953	171,865	163,777	155,689
g-term liabilities	250,564	264,969	261,865	258,777	230,689
payable	7,194	31,356	9,746	11,687	11,620
t term debt	13,208	13,208	13,208	13,208	13,208
r current liabilities	41,440	11,693	9,782	7,871	5,960
ent liabilities	61,841	56,257	32,736	32,766	30,788
I liabilities and shareholders' equity	669,464	675,637	666,881	682,247	670,493
working capital	8,369	(1,591)	24,318	61,084	55,910
sted capital	535,709	521,330	614,913	652,921	634,502
ludes convertibles and preferred stock which is being t	realeu as uebl				
share (THB)	89.94	89.27	03 77	98.41	103.03
value per snare jible book value per share	89.94 89.94	89.27 89.27	93.77 93.77	98.41 98.41	103.03
	09.94	09.27	93.11	90.41	103.03
ncial strength					
debt/equity (%)	2.7	(3.7)	19.0	25.2	17.1
debt/total assets (%)	1.4	(1.9)	10.6	14.4	10.4
ent ratio (x)	2.3	2.7	2.3	2.8	3.0
nterest cover (x)	97.5	28.2	5.5	22.2	21.9
ation	2019	2020	2021E	2022E	20238
urring P/E (x) *	11.0	20.8	11.0	10.7	10.3
urring P/E @ target price (x) *	14.1	26.5	14.0	13.6	13.1
prted P/E (x)	10.1	21.7	11.0	10.7	10.8
lend yield (%)	6.7	3.4	5.4	5.6	5.6
e/book (x)	1.4	1.4	1.3	1.3	1.2
e/tangible book (x)	1.4	1.4	1.3	1.3	1.2
BITDA (x) **	5.2	6.8	4.9	5.3	5.0
EBITDA @ target price (x) **	6.5	8.7	6.1	6.5	6.1
nvested capital (x)	0.9	0.9	0.9	0.9	0.9
urring P/E (x) * urring P/E @ target price (x) * orted P/E (x) lend yield (%) e/book (x) e/tangible book (x) EBITDA (x) **	<b>11.0</b> <b>14.1</b> 10.1 6.7 1.4 1.4 5.2	<b>20.8</b> <b>26.5</b> 21.7 3.4 1.4 1.4 6.8	<b>11.0</b> <b>14.0</b> 11.0 5.4 1.3 1.3 4.9		<b>10.7</b> <b>13.6</b> 10.7 5.6 1.3 1.3 5.3

Sources: PTT Explor & Prod; FSSIA estimates



#### Corporate Governance report of Thai listed companies 2020

EXCELLE	NT LEVEL									
AV VAV	ADVANC	AF	AIRA	AKP	AKR	ALT	AMA	AMATA	AMATAV	ANAN
AOT	AP	ARIP	ARROW	ASP	BAFS	BANPU	BAY	BCP	BCPG	BDMS
EC	BEM	BGRIM	BIZ	BKI	BLA	BOL	BPP	BRR	BTS	BWG
ENTEL	CFRESH	CHEWA	CHO	CIMBT	CK	CKP	CM	CNT	COL	COMAN
отто	CPALL	CPF	CPI	CPN	CSS	DELTA	DEMCO	DRT	DTAC	DTC
V8	EA	EASTW	ECF	ECL	EGCO	EPG	ETE	FNS	FPI	FPT
SMART	GBX	GC	GCAP	GEL	GFPT	GGC	GPSC	GRAMMY	GUNKUL	HANA
ARN	HMPRO	ICC	ICHI	III	ILINK	INTUCH	IRPC	IVL	JKN	JSP
VD	K	KBANK	KCE	ш ККР	KSL	KTB	KTC	LANNA	LH	LHFG
T	LPN	MAKRO	MALEE	MBK	MBKET	MC	мсот	METCO	MFEC	MINT
	MOONG	MARKO	MTC	NCH	NCL	NEP	NKI	NOBLE	NSI	NVD
YT	OISHI	ORI	ото	PAP	PCSGH	PDJ	PG	PHOL	PLANB	PLANET
_AT	PORT	PPS	PR9	PREB	PRG	PRM	PSH	PSL	PTG	PTT
LAT ITEP					QTC					
	PTTGC	PYLON	Q-CON	QH		RATCH	RS	S	S&J	SAAM
ABINA	SAMART	SAMTEL	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SDC
EAFCO	SEAOIL	SE-ED	SELIC	SENA	SIRI	SIS	SITHAI	SMK	SMPC	SNC
ONIC	SORKON	SPALI	SPI	SPRC	SPVI	SSSC	SST	STA	SUSCO	SUTHA
/I	SYMC	SYNTEC	TACC	TASCO	TCAP	TFMAMA	THANA	THANI	THCOM	THG
HIP	THRE	THREL	TIP	TIPCO	TISCO	ТК	ТКТ	TTB	TMILL	TNDT
NL	TOA	TOP	TPBI	TQM	TRC	TSC	TSR	TSTE	TSTH	TTA
TCL	TTW	TU	TVD	TVI	TVO	TWPC	U	UAC	UBIS	UV
GI	VIH	WACOAL	WAVE	WHA	WHAUP	WICE	WINNER	TRUE		
ERY GO	OD LEVEL									
3	ABM	ACE	ACG	ADB	AEC	AEONTS	AGE	AH	AHC	AIT
LA	AMANAH	AMARIN	APCO	APCS	APURE	AQUA	ASAP	ASEFA	ASIA	ASIAN
SIMAR	ASK	ASN	ATP30	AUCT	AWC	AYUD	В	BA	BAM	BBL
TIT	BGC	BJC	BJCHI	BROOK	BTW	CBG	CEN	CGH	CHARAN	CHAYO
HG	CHOTI	CHOW	CI	CIG	CMC	COLOR	COM7	CPL	CRC	CRD
SC	CSP	CWT	DCC	DCON	DDD	DOD	DOHOME	EASON	EE	ERW
STAR	FE	FLOYD	FN	FORTH	FSS	FTE	FVC	GENCO	GJS	GL
LAND	GLOBAL	GLOCON	GPI	GULF	GYT	HPT	HTC	ICN	IFS	ILM
1H	INET	INSURE	IRC	IRCP	IT	ITD	ITEL	J	JAS	JCK
СКН	JMART	JMT	KBS	KCAR	KGI	KIAT	KOOL	KTIS	KWC	KWM
λE	LALIN	LDC	LHK	LOXLEY	LPH	LRH	LST	М	MACO	MAJOR
BAX	MEGA	META	MFC	MGT	MILL	MITSIB	MK	MODERN	MTI	MVP
ETBAY	NEX	NINE	NTV	NWR	OCC	OGC	OSP	PATO	PB	PDG
	PICO	PIMO	PJW	PL	PM	PPP	PRIN	PRINC	PSTC	PT
LT	RCL	RICHY	RML	RPC	RWI	S11	SALEE	SAMCO	SANKO	SAPPE
- V AWAD	SCI	SCP	SE	SEG	SFP	SGF	SHR	SIAM	SINGER	SKE
(R	SKY	SMIT	SMT	SNP	SPA	SPC	SPCG	SR	SRICHA	SSC
SF	STANLY	SMIT	SMI	SUC	SUN		T	TAE	TAKUNI	TBSP
SF CC	TCMC	TEAM	TEAMG	TFG	TIGER	SYNEX TITLE	i TKN	TAE	TAKUNI TM	TMC
MD	TMI	TMT	TNITY	TNP	TNR	TOG	TPA	TPAC	TPCORP	TPOLY
PS	TRITN	TRT	TRU	TSE	TVT	TWP	UEC	UMI	UOBKH	UP
PF	UPOIC	UT	UTP	UWC	VL	VNT	VPO	WIIK	WP	XO
JASA	ZEN	ZIGA	ZMICO							
OOD LE	VEL									
IP	A	ABICO	AJ	ALL	ALUCON	AMC	APP	ARIN	AS	AU
2	BC	BCH	BEAUTY	BGT	BH	BIG	BKD	BLAND	BM	BR
ROCK	BSBM	BSM	BTNC	CAZ	CCP	CGD	CITY	CMAN	CMO	CMR
РТ	CPW	CRANE	CSR	D	EKH	EP	ESSO	FMT	GIFT	GREEN
SC	GTB	HTECH	HUMAN	IHL	INOX	INSET	IP	JTS	JUBILE	KASET
СМ	KKC	KUMWEL	KUN	KWG	KYE	LEE	MATCH	MATI	M-CHAI	MCS
			MORE		NDR					

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	TPIPP	TPLAS	
TTI	TYCN	UKEM	UMS	VCOM	VRANDA	WIN	WORK	WPH			
		Description	ı					Score	Range		
		Excellent						90-1	100		
Very Good								80-	89		
								70	70		
		Good						70-	79		

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	Al	AIE	AIRA	AKP	AMA	AMANAH	AP	AQUA	ARROW
ASK	ASP	AYUD	В	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	К	KASET	KBANK	KBS	KCAR	KCE	KGI	KKP	KSL
КТВ	KTC	KWC	L&E	LANNA	LHFG	LHK	LPN	LRH	М	MAKRO
MALEE	MBAX	MBK	MBKET	MC	MCOT	MFC	MFEC	MINT	MONO	MOONG
MPG	MSC	MTC	MTI	NBC	NEP	NINE	NKI	NMG	NNCL	NSI
NWR	000	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	WIIK	XO
ZEN	TRUE									
DECLARED										
7UP	ABICO	AF	ALT	AMARIN	AMATA	AMATAV	ANAN	APURE	B52	BKD
BM	BROCK	BUI	СНО	CI	сотто	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 inc	dicates practica	l participation wi	th thoroughly ex	camination in rela	ation to the reco	mmended proce	dures from the	audit committee	or the SEC's

It field It is 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

# **FINANSIA**

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#### 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



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 124.00	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 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 24-Jan-2022 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.

