6 OCTOBER 2021 THAILAND / OIL & GAS PTT EXPLOR & PROD



PTTEP TB



Dancing with the crude

Hedging losses to curb the oil price upsides in 3Q21

We project PTTEP to post a strong 3Q21 net profit of THB9.8b, up 37% q-q and 36% y-y. We expect its core net profit to rise to THB12.6b, up 13% q-q and 104% y-y. We see the key drivers as 1) a higher average selling price (ASP) to USD44.4/boe, driven by the higher gas price to USD5.76/mmbtu and liquid price to USD69.9/bbl – a small discount to the average Dubai oil price of USD71.9/bbl in 3Q21; 2) a 6.5% q-q lower sales volume to 414kboed, but still higher than the previously guided 405kboed, due to the higher-than-expected sales volumes from Bongkot and Erawan to offset the planned shutdown impacts of the Arthit and MTJDA gas fields and S1 oil field; 3) a higher cost to USD29.38/boe, higher than our previously projected USD28.5/boe due to the higher write-off expense of USD27m for the gas wells at the Zawtika field in Myanmar and USD18m for the gas well in the SK415 area in Malaysia; and 4) a hedging loss of USD40m as a result of the collar hedging of 12m bbls at a USD60/bbl oil price.

Upsides from the rising oil and gas prices

As Thailand's leading producer of oil & gas, PTTEP is poised to benefit from the global energy crunch that has boosted commodity prices since 3Q21. With a production volume mix of 70% gas and 30% oil, PTTEP should benefit more from the oil price hike thanks to its small discount to the Dubai crude oil price due to PTTEP's comparable crude quality to Dubai. However, it should benefit less from the gas price increase, which has spiked to over USD20/mmbtu (spot LNG price), as PTTEP's gas price formula has a 6-month delay to the oil price changes and only around 1/3 of its gas price is linked to the change in high sulphur fuel oil.

Volume downside from Erawan delay

In 2022, we think the production volume downside of up to 300mmscfd from the 6-month delay in the Erawan (contract 4) gas field's production as a result of the dispute between the Department of Mineral Fuel and the soon-to-exit Chevron, should be more than offset by the production growth from new projects, including the 5kbpd Algeria phase 1 (COD in 1Q22, 50% stake) and higher production levels from existing fields.

Top pick in Thai energy sector for oil play

Maintain BUY and our target price of THB158, based on 6.1x 2021E EV/EBITDA, reflecting our positive view on the oil price outlook.



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TARGET PRICE	THB158.00
CLOSE	THB120.50
UP/DOWNSIDE	+31.1%
PRIOR TP	THB158.00
CHANGE IN TP	UNCHANGED
TP vs CONSENSUS	+14.2%

KEY STOCK DATA

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 (%)	-	9.2	(4.1)	(0.6)
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)	20.2	10.7	10.4	10.4
Dividend yield (%)	3.5	5.6	5.8	5.7
EV/EBITDA (x)	6.6	4.8	5.2	4.8
Price/book (x)	1.3	1.3	1.2	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 could see a negative impact from declining gas prices in 2021, reflecting the low oil prices in 2020, as PTTEP's gas price is linked to the average past 6-month oil price.

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



■ 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 price and a potential earnings downside from government intervention.

Event calendar

 Date
 Event

 Nov 2021
 3Q21 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 2021 earnings would rise 1.3%, and vice versa, all else being equal.
- For every 1% increase in gas price, we estimate 2021 earnings would rise 1.2%, and vice versa.
- For every 1% increase in sales volume, we estimate 2021 earnings would rise 1.1%, and vice versa.

Source: FSSIA estimates

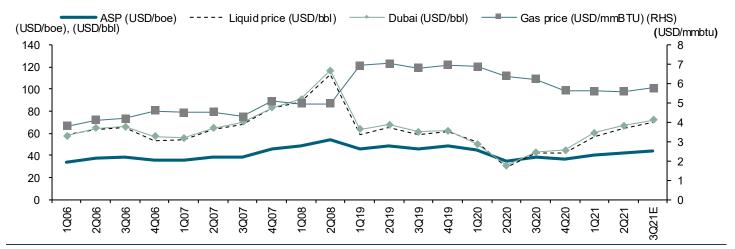


Exhibit 1: 3Q21E/9M21E preview

	3Q20	2Q21		3Q21E		9M20	9M21E	Change
	(THB m)	(THB m)	(THB m)	(q-q%)	(у-у%)	(THB m)	(THB m)	(y-y%)
Revenue	38,475	54,209	60,587	11.8	57.5	117,952	156,932	33.0
Operating costs	(11,415)	(12,460)	(15,329)	23.0	34.3	(41,152)	(48,870)	18.8
EBITDA	27,059	41,750	45,258	8.4	67.3	76,800	108,062	40.7
EBITDA margin (%)	70.3	77.0	74.7	nm	nm	65.1	68.9	nm
Depn & amort.	(16,123)	(19,747)	(20,475)	3.7	27.0	(48,476)	(56,779)	17.1
EBIT	10,937	22,003	24,783	12.6	126.6	28,324	51,283	81.1
Interest expense	(1,936)	(1,611)	(1,752)	8.8	(9.5)	(5,910)	(4,816)	(18.5)
Interest & invt inc	1,327	793	852	7.4	(35.8)	10,308	12,925	25.4
Associates' contrib	144	88	120	37.0	(16.7)	530	272	(48.8)
Exceptionals	1,108	(4,070)	(1,650)	nm	nm	3,195	(2,774)	nm
Pretax profit	11,579	17,203	22,353	29.9	93.1	36,448	56,890	56.1
Tax	(4,377)	(10,063)	(12,554)	24.8	186.8	(16,310)	(28,418)	74.2
Tax rate (%)	37.8	58.5	56	nm	nm	44.8	50.0	nm
Minority interests	0	0	0	nm	nm	0	0	nm
Net profit	7,202	7,140	9,799	37.2	36.1	20,137	28,472	41.4
Non-recurring	1,028	(4,046)	(2,790)	(31.0)	(371.4)	1,499	(4,140)	(376.1)
Core profit	6,174	11,185	12,589	12.5	103.9	18,638	32,612	75.0
EPS (THB)	1.81	1.80	2.47	37.2	36.1	5.07	7.17	41.4
Core EPS (THB)	1.56	2.82	3.17	12.5	103.9	4.69	8.21	75.0

Sources: PTTEP; FSSIA estimates

Exhibit 2: ASP and prices of liquid and gas for PTTEP vs Dubai crude oil price



Sources: PTTEP; FSSIA estimates

FINANSIA

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	0
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
			2,007	2,007	2,007
Non-recurring items	4,252	(1,021)			
Profit before tax	69,754	41,428	74,444	76,766	76,304
Tax	(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	01.0	(00.0)	07.1	0.1	(0.0)
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
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

Cash Flow (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023
. , .		23.685			
ecurring net profit epreciation	44,550 25,124	23,685 26,100	44,667 28,948	46,059 31,819	45,78 34,27
ssociates & minorities	-	20,100	- 20,340	51,019	54,27
ther non-cash items	35,065	35,065	35,066	35,066	35,06
hange in working capital	34,563	(17,958)	(27,045)	(12,139)	7,15
ash flow from operations	139,303	66,891	81,636	100,805	122,27
Capex - maintenance	-	-	-	-	
Capex - new investment	(115,506)	(115,506)	(114,807)	(114,807)	(81,807
let acquisitions & disposals	192	176	457	838	83
Other investments (net)	0	1	0	0	(00.000
cash flow from investing	(115,314) (21,655)	(115,329)	(114,350) (26,800)	(113,969)	(80,969
vividends paid equity finance	(21,055)	(20,986) 0	(20,800)	(27,636) 0	(27,469
bebt finance	31,659	3,457	4,984	5,000	(20,000
Other financing cash flows	(52,064)	92,102	(24,288)	13,128	14,80
cash flow from financing	(42,061)	74,574	(46,104)	(9,508)	(32,664
lon-recurring cash flows	-	-	-	-	
Other adjustments	0	0	0	0	
let other adjustments	0	0	0	0	
lovement in cash	(18,072)	26,136	(78,818)	(22,672)	8,64
ree cash flow to firm (FCFF)	31,279.40	(40,482.25)	(25,923.41)	(6,373.71)	48,098.1
ree cash flow to equity (FCFE)	3,582.99	47,121.57	(52,018.40)	4,964.02	36,112.8
er share (THB)					
CFF per share	7.88	(10.20)	(6.53)	(1.61)	12.1
CFE per share	0.90	11.87	(13.10)	1.25	9.1
ecurring cash flow per share	26.38	21.37	27.38	28.45	29.0
alance Sheet (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023
angible fixed assets (gross)	1,061,295	1,100,534	1,215,341	1,330,148	1,411,95
ess: Accumulated depreciation	(739,794)	(805,044)	(877,415)	(956,961)	(1,042,652
angible fixed assets (net)	321,501	295,491	337,927	373,187	369,30
ntangible fixed assets (net)	0	0	0	0	,
ong-term financial assets	-	-	-	-	
nvest. in associates & subsidiaries	13,675	13,523	13,992	14,461	14,92
Cash & equivalents	85,122	111,257	32,439	9,767	18,41
/C receivable	27,599	23,752	24,657	59,135	52,06
iventories	9,961	10,156	11,639	13,957	13,87
Other current assets	19,443	7,551	7,551	7,551	7,55
Current assets Dther assets	142,125 192,163	152,716 213,908	76,286 238,677	90,410 204,189	91,90 194,35
otal assets	669,464	675,637	666,881	682,247	670,49
Common equity	357,059	354,411	372,280	390,703	409,01
/inorities etc.	0	0	0	0	400,01
otal shareholders' equity	357,059	354,411	372,280	390,703	409,01
ong term debt	81,559	85,016	90,000	95,000	75,00
other long-term liabilities	169,005	179,953	171,865	163,777	155,68
ong-term liabilities	250,564	264,969	261,865	258,777	230,68
/C payable	7,194	31,356	9,746	11,687	11,62
hort term debt	13,208	13,208	13,208	13,208	13,20
Other current liabilities	41,440	11,693	9,782	7,871	5,96
Current liabilities	61,841	56,257	32,736	32,766	30,78
otal liabilities and shareholders' equity	669,464 8 369	675,637 (1.591)	666,881 24,318	682,247	670,49
let working capital nvested capital	8,369 535,709	(1,591) 521,330	24,318 614,913	61,084 652 921	55,91 634,50
Includes convertibles and preferred stock which is bein	,	021,000	014,913	652,921	034,30
·					
er share (THB) ook value per share	89.94	89.27	93.77	98.41	103.0
ook value per snare angible book value per share	89.94 89.94	89.27 89.27	93.77 93.77	98.41 98.41	103.0
inancial strength		00.21	00.11		100.0
et debt/equity (%)	2.7	(3.7)	19.0	25.2	17.
et debt/total assets (%)	1.4	(1.9)	10.6	14.4	10.
urrent ratio (x)	2.3	2.7	2.3	2.8	3.
F interest cover (x)	97.5	28.2	5.5	22.2	21.
aluation	2019	2020	2021E	2022E	2023
ecurring P/E (x) *	10.7	2020	10.7	10.4	10.
ecurring P/E (x) * ecurring P/E @ target price (x) *	10.7	20.2	10.7 14.0	10.4 13.6	10. 13.
eported P/E (x)	9.8	20.3	10.7	10.4	10.
ividend yield (%)	6.8	3.5	5.6	5.8	5.
rice/book (x)	1.3	1.3	1.3	1.2	1.
rice/tangible book (x)	1.3	1.3	1.3	1.2	1.
	5.0	6.6	4.8	5.2	4.
V/EBITDA (x) ** V/EBITDA @ target price (x) **	5.0 6.5	6.6 8.7	4.8 6.1	6.5	4. 6.

Sources: PTT Explor & Prod; FSSIA estimates



Corporate Governance report of Thai listed companies 2020

EXCELLE	NT LEVEL									
AAV	ADVANC	AF	AIRA	AKP	AKR	ALT	AMA	AMATA	AMATAV	ANAN
OT	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	СК	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		ILINK	INTUCH	IRPC	IVL	JKN	JSP
VD	K	KBANK	KCE	KKP	KSL	КТВ	KTC	LANNA	LH	LHFG
Т	LPN	MAKRO	MALEE	MBK	MBKET	MC	мсот	METCO	MFEC	MINT
ONO	MOONG	MSC	MTC	NCH	NCL	NEP	NKI	NOBLE	NSI	NVD
YT	OISHI	ORI	ОТО	PAP	PCSGH	PDJ	PG	PHOL	PLANB	PLANET
LAT	PORT	PPS	PR9	PREB	PRG	PRM	PSH	PSL	PTG	PTT
TTEP	PTTGC	PYLON	Q-CON	QH	QTC	RATCH	RS	S	S & J	SAAM
ABINA	SAMART	SAMTEL	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SDC
					SIRI					SNC
EAFCO	SEAOIL	SE-ED	SELIC	SENA		SIS	SITHAI SST	SMK	SMPC	
ONIC	SORKON	SPALI	SPI TACC	SPRC	SPVI	SSSC		STA	SUSCO	SUTHA
VI	SYMC	SYNTEC		TASCO	TCAP	TFMAMA			THCOM	THG
HIP	THRE	THREL	TIP	TIPCO	TISCO	TK	TKT	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									
S	ABM	ACE	ACG	ADB	AEC	AEONTS	AGE	AH	AHC	AIT
LLA	AMANAH	AMARIN	APCO	APCS	APURE	AQUA	ASAP	ASEFA	ASIA	ASIAN
SIMAR	ASK	ASN	ATP30	AUCT	AWC	AYUD	В	BA	BAM	BBL
FIT	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
ИН	INET	INSURE	IRC	IRCP	IT	ITD	ITEL	J	JAS	JCK
СКН	JMART	JMT	KBS	KCAR	KGI	KIAT	KOOL	KTIS	KWC	KWM
&E	LALIN	LDC	LHK	LOXLEY	LPH	LRH	LST	М	MACO	MAJOR
IBAX	MEGA	META	MFC	MGT	MILL	MITSIB	MK	MODERN	MTI	MVP
ETBAY	NEX	NINE	NTV	NWR	OCC	OGC	OSP	PATO	PB	PDG
DI	PICO	PIMO	PJW	PL	PM	PPP	PRIN	PRINC	PSTC	PT
LT	RCL	RICHY	RML	RPC	RWI	S11	SALEE	SAMCO	SANKO	SAPPE
AWAD	SCI	SCP	SE	SEG	SFP	SGF	SHR	SIAM	SINGER	SKE
KR	SKY	SMIT	SMT	SNP	SPA	SPC	SPCG	SR	SRICHA	SSC
SF	STANLY	STI	STPI	SUC	SUN	SYNEX	T	TAE	TAKUNI	TBSP
	TCMC	TEAM	TEAMG	TFG	TIGER	TITLE	TKN	TKS	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
				000	VL	VINI	VFU	WHIT	VVF	70
UASA	ZEN	ZIGA	ZMICO							
OOD LE	VEL									
JP	А	ABICO	AJ	ALL	ALUCON	AMC	APP	ARIN	AS	AU
52	BC	BCH	BEAUTY	BGT	BH	BIG	BKD	BLAND	BM	BR
ROCK	BSBM	BSM	BTNC	CAZ	CCP	CGD	CITY	CMAN	СМО	CMR
PT	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
DX	MJD	MM	MORE	NC	NDR	NER	NFC	NNCL	NPK	NUSA
		DE	DIC		DMTA	DOCT		DDAKIT	DDECUA	

IVIDA	INIOD	IVIIVI	WORL	NO	NDIX			INNOL		NOOA
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		
		Descriptio	n					Score	Range	
		Excellent						90-	100	
		Very Good	ł					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	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	СМ	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	ТКТ	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	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									

tified 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

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Suwat Sinsadok FSS International Investment Advisory Securities Co., Ltd

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History of change in investment rating and/or target price



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

Price and TP are in local currency

Source: ESSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
PTT Explor & Prod	PTTEP TB	THB 120.50	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 Finansia Syrus Securities Public Company Limited

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All share prices are as at market close on 05-Oct-2021 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.

