EQUITY RESEARCH - RESULTS FLASH

PTT PCL PTT TB

THAILAND / OIL & GAS





TARGET PRICE	THB60.00
CLOSE	THB36.50
UP/DOWNSIDE	+64.4%
TP vs CONSENSUS	+26.2%

Hedging losses led to a weak 1Q22

- 1Q22 NP of THB25.6b (-7% q-q and -22% y-y); core NP dropped to THB24.6b (-19% q-q, +33% y-y) due to lower coal earnings.
- We think PTT's NP growth remains strong on high oil, gas, and coal prices in 2022.
- Maintain BUY and our SoTP-based TP of THB60.

Hedging losses dragged down 1Q22 earnings

PTT posted a 1Q22 net profit (NP) of THB25.6b, down 7% q-q and 22% y-y, missing the Bloomberg consensus estimate by 24% and our forecast by 10%. Key drivers were a non-recurring loss of THB0.9b, including a reversal of take-or-pay expenses of THB0.7b, an FX gain of THB5.7b, a THB49b hedging loss, and other impairment losses from subsidiaries and associates. 1Q22 core NP dropped to THB24.6b (-19% q-q, +33% y-y) due to the q-q lower earnings from coal which offset the higher NPs from gas, PTT Exploration and Production (PTTEP TB, BUY), and refinery and petrochemical associates. Gas NP inched up to THB15b, due to higher NPs from its pipeline transmission (TM) and gas separation plant (GSP) which offset the weaker NPs from gas sales & marketing (S&M), trading, and natural gas for vehicles (NGV). PTTEP's EBIT rose 8.9% q-q to THB36.4b in 1Q22 due to the higher average selling price (ASP).

GSPs and TM drove gas EBITDA in 1Q22

1Q22 core gas EBIT rose to THB15.1b (+5% q-q, -12% y-y), driven by the higher product prices of GSPs and higher sales volumes for TM to offset the weaker margins for S&M and NGV. EBIT from its oil trading unit jumped to THB15.5b due to a rise in the oil sales volume. Transmission pipeline EBITDA rose to THB8.5b in 1Q22 (+4% y-y, +7% q-q) due to higher volumes, while EBITDA from its GSP rose to THB10.3b due to the higher product margins and fewer planned shutdowns at a 92% run rate.

Rescuers: stock gain in 1Q22 and a q-q lower gas price in 2Q22

EBIT from downstream petrochemical and refinery associates surged to THB34.5b in 1Q22 (+152% q-q) due to higher stock gains which offset the lower olefins and aromatics margins. Coal EBIT dipped to THB1.4b, down 38% q-q, due to a 22% q-q lower sales volume of 1.4mt despite the 4% q-q higher ASP for coal. PTT guided that its pool gas price should drop by over 20% in 2Q22, driven by a lower price and volume of imported LNG with a projected spot LNG price of USD26/mmbtu in 2Q22 vs USD35/mmbtu in 1Q22.

A defensive recovery oil & gas play

Maintain BUY and our SoTP-based TP of THB60. We think PTT's NP growth potential remains strong on high oil, gas, and coal prices in 2022.

KEY STOCK DATA

YE Dec (THB m)	2021	2022E	2023E	2024E
Revenue	2,258,818	2,384,459	2,556,087	2,722,943
Net profit	108,363	134,095	151,749	141,896
EPS (THB)	3.79	4.69	5.31	4.97
vs Consensus (%)	-	14.0	29.7	16.8
EBITDA	392,983	394,234	409,622	383,442
Core net profit	89,249	134,095	151,749	141,896
Core EPS (THB)	3.12	4.69	5.31	4.97
EPS growth (%)	57.2	50.2	13.2	(6.5)
Core P/E (x)	11.7	7.8	6.9	7.3
Dividend yield (%)	1.4	4.1	4.1	4.6
EV/EBITDA (x)	5.3	4.6	4.0	3.8
Price/book (x)	1.0	0.9	0.9	0.8
Net debt/Equity (%)	39.3	25.6	9.6	(3.4)
ROE (%)	9.5	12.7	13.2	11.3



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(1.4)	(9.3)	(8.2)
Relative to country (%)	4.2	(2.8)	(8.9)
Mkt cap (USD m)			30,050
3m avg. daily turnover (USD m)			64.3
Free float (%)			49
Major shareholder	Min	istry of Fina	nce (51%)
12m high/low (THB)		4	2.00/34.00
Issued shares (m)			28,563.00

Sources: Bloomberg consensus; FSSIA estimates



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Exhibit 1: Summary of 1Q22 operations

	1Q21	4Q21		1Q22		2021	2022E	Chg.
	(THB m)	(THB m)	(THB m)	(q-q %)	(y-y %)	(THB m)	(THB m)	(y-y %)
Revenue	477,837	688,838	758,465	10.1	58.7	2,258,818	2,384,459	5.6
Operating costs	(374,840)	(587,567)	(615,764)	4.8	64.3	(2,651,801)	(2,778,693)	4.8
EBITDA	102,997	101,271	142,701	40.9	38.5	392,983	394,234	0.3
EBITDA margin (%)	21.6	14.7	18.8	nm	nm	17.4	16.5	nm
Depreciation & amort	(35,036)	(33,850)	(37,145)	9.7	6.0	(163,799)	(173,007)	5.6
EBIT	67,961	67,421	105,556	56.6	55.3	229,184	221,227	(3.5)
Interest expense	(6,439)	(7,153)	(7,445)	4.1	15.6	(28,163)	(30,424)	8.0
Interest & invt inc	14,354	6,529	3,787	(42.0)	(73.6)	(3,018)	8,740	nm
Associates' contri	1,947	1,937	1,949	0.6	0.1	9,010	9,911	10.0
Exceptional	(18,935)	(10,868)	(45,270)	316.6	139.1	12,646	0	nm
Pretax profit	58,889	57,866	58,578	1.2	(0.5)	219,658	209,454	(4.6)
Tax	(11,683)	(19,648)	(21,874)	11.3	87.2	(67,591)	(43,985)	(34.9)
Tax rate (%)	(19.8)	(34.0)	(37.3)	nm	nm	30.8	21.0	nm
Minority interests	(14,618)	(10,674)	(11,133)	4.3	(23.8)	(43,704)	(31,373)	(28.2)
Net profit	32,588	27,544	25,571	(7.2)	(21.5)	108,363	134,095	23.7
Non-recurring	14,022	(2,901)	929	nm	(93.4)	19,114	0	nm
Core profit	18,566	30,445	24,642	(19.1)	32.7	89,249	134,095	50.2
EPS (THB)	1.14	0.96	0.90	(7.2)	(21.5)	3.79	4.69	23.7
Core EPS (THB)	0.65	1.07	0.86	(19.1)	32.7	3.12	4.69	50.2

Sources: PTT; FSSIA estimates

Exhibit 2: 1Q22 performance of key segments

	1Q21	4Q21	1Q22	Ch	ange
	(THB m)	(THB m)	(THB m)	(q-q %)	(y-y %)
EBITDA	102,997	101,271	142,701	40.9	38.5
Oil	6,531	4,513	6,686	48.1	2.4
Oil trading	3,975	(54)	15,625	nm	293.1
Gas	21,775	19,200	19,520	1.7	(10.4)
PTTEP	31,824	47,419	53,465	12.8	68.0
Petrochem and refining	33,492	23,573	45,162	91.6	34.8
Coal	1,230	2,943	1,836	(37.6)	49.3
Others	4,786	3,298	2,456	(25.5)	(48.7)
EBIT*	4Q21	4Q21	1Q22	(q-q%)	(y-y%)
Oil	5,127	2,939	5,177	76.1	1.0
Oil trading	3,926	(108)	15,502	nm	294.9
Gas	17,178	14,411	15,089	4.7	(12.2)
PTTEP	15,327	33,439	36,431	8.9	137.7
Petrochem and refining	23,984	13,662	34,457	152.2	43.7
Coal	897	2,257	1,390	(38.4)	55.0
Others	2,138	441	(441)	nm	nm
Share of profit/(loss) - Petrochem and refining	1,465	1,393	1,075	(22.8)	(26.6)
Share of profit/(loss) - Others	482	555	879	58.4	82.4
FX gain (loss)	(4,330)	5,139	5,712	11.2	nm
Net profit	32,588	27,544	25,571	(7.2)	(21.5)

*Note: EBIT includes exceptionals, share of profit (loss), and investment income, hence it differs from EBIT in Exhibit 1, which excludes these items Source: PTT

Exhibit 3: 1Q22 quarterly key drivers

	Unit	Unit 1Q21 4Q21		1Q22	Change	
					(q-q %)	(y-y %)
Oil sales volume	bpd	1,694,381	2,152,143	2,929,197	36.1	72.9
Gas sales volume	mmscfd	4,584	4,158	4,422	6.3	(3.5)
GSP volume	tonnes	1,780,056	1,637,187	1,703,083	4.0	(4.3)
PTTEP's ASP	USD/boe	40.4	46.9	51.4	9.6	27.2
PTTEP's sales volume	boed	382,877.0	420,965.0	427,368.0	1.5	11.6
Coal ASP	USD/tonne	67.9	95.3	99.2	4.1	46.1
Coal sales volume	m tonnes	1.5	1.8	1.4	(22.2)	(6.7)
Net profit	THB m	32,588	27,544	25,571	(7.2)	(21.5)

Source: PTT

Financial Statements

PTT PCI

Profit and Loss (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Revenue	1,615,665	2,258,818	2,384,459	2,556,087	2,722,943
Cost of goods sold	(1,305,456)	(1,736,431)	(1,944,920)	(2,097,900)	(2,287,765)
Gross profit	310,209	522,388	439,539	458,187	435,178
Other operating income	-	-	-	· -	-
Operating costs	(76,974)	(129,405)	(45,305)	(48,566)	(51,736)
Operating EBITDA	233,235	392,983	394,234	409,622	383,442
Depreciation	(154,591)	(163,799)	(173,007)	(182,215)	(191,423)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	78,644	229,184	221,227	227,407	192,020
Net financing costs	(19,267)	(34,632)	(30,424)	(30,230)	(30,036)
Associates	4,178	9,010	9,911	10,902	11,992
Recurring non-operating income	24,757	5,992	18,651	36,177	60,521
Non-recurring items	(19,017)	19,114	0	0	0
Profit before tax	65,116	219,658	209,454	233,354	222,504
Tax	(25,166)	(67,591)	(43,985)	(49,004)	(46,726)
Profit after tax	39,950	152,068	165,469	184,350	175,778
Minority interests	(2,184)	(43,704)	(31,373)	(32,601)	(33,883)
Preferred dividends	0	Ó	Ó	0	0
Other items	-	-	-	_	-
Reported net profit	37,766	108,363	134,095	151,749	141,896
Non-recurring items & goodwill (net)	19,017	(19,114)	0	0	0
Recurring net profit	56,783	89,249	134,095	151,749	141,896
Per share (THB)					
Recurring EPS *	1.99	3.12	4.69	5.31	4.97
Reported EPS	1.32	3.79	4.69	5.31	4.97
DPS	0.50	0.50	1.50	1.48	1.68
Diluted shares (used to calculate per share data)	28,563	28,563	28,563	28,563	28,563
Growth				,	,
Revenue (%)	(27.2)	39.8	5.6	7.2	6.5
Operating EBITDA (%)	(18.8)	68.5	0.3	3.9	(6.4)
Operating EBIT (%)	(44.5)	191.4	(3.5)	2.8	(15.6)
Recurring EPS (%)	(38.9)	57.2	50.2	13.2	(6.5)
Reported EPS (%)	(59.4)	186.9	23.7	13.2	(6.5)
Operating performance					
Gross margin inc. depreciation (%)	9.6	15.9	11.2	10.8	9.0
Gross margin of key business (%)	9.6	15.9	11.2	10.8	9.0
Operating EBITDA margin (%)	14.4	17.4	16.5	16.0	14.1
Operating EBIT margin (%)	4.9	10.1	9.3	8.9	7.1
Net margin (%)	3.5	4.0	5.6	5.9	5.2
Effective tax rate (%)	38.6	30.8	21.0	21.0	21.0
Dividend payout on recurring profit (%)	25.2	16.0	32.0	28.0	33.8
Interest cover (X)	5.4	6.8	7.9	8.7	8.4
Inventory days	39.4	35.8	40.6	40.0	39.2
Debtor days	31.4	24.8	30.9	30.6	30.7
Creditor days	57.9	51.7	61.1	60.3	59.1
Operating ROIC (%)	6.9	24.0	21.5	18.4	16.8
ROIC (%)	3.2	7.4	8.3	9.7	9.7
ROE (%)	6.5	9.5	12.7	13.2	11.3
ROA (%)	2.8	5.6	6.1	6.5	6.0
* Pre exceptional, pre-goodwill and fully diluted	2.0	0.0	0.1	0.0	0.0
Revenue by Division (THB m)	2020	2021	2022E	2023E	2024E
Petroleum exploration and production	192,963	194,893	196,842	198,810	200,798
Natural gas	512,874	531,465	531,465	531,465	531,465
Coal	22,654	21,452	21,452	21,452	21,452
Oil	511,478	531,211	531,211	531,211	531,211

Sources: PTT PCL; FSSIA estimates

Financial Statements

PTT PCL

Cash Flow (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Recurring net profit	56,783	89,249	134,095	151,749	141,896
Depreciation	154,591	163,799	173,007	182,215	191,423
Associates & minorities	(4,178)	(9,010)	(9,911)	(10,902)	(11,992
Other non-cash items	79,186	(79,095)	130,046	130,131	130,287
Change in working capital	3,052	(52,023)	101,680	103,932	103,863
Cash flow from operations	289,435	112,921	528,917	557,125	555,470
Capex - maintenance	· -	-	-	-	
Capex - new investment	(110,494)	(110,494)	(110,494)	(110,494)	(110,494
Net acquisitions & disposals	5,283	5,194	5,194	5,194	5,194
Other investments (net)	0	0	0	0	(
Cash flow from investing	(105,212)	(105,300)	(105,300)	(105,300)	(105,300
Dividends paid	(14,281)	(14,281)	(42,844)	(42,415)	(47,998
Equity finance	0	0	0	0	(11,000
Debt finance	109,972	129,476	0	0	(
Other financing cash flows	(240,423)	(142,117)	(181,118)	(181,203)	(181,358
Cash flow from financing	(144,733)	(26,922)	(223,962)	(223,617)	(229,357
Non-recurring cash flows	(144,700)	(20,322)	(225,502)	(223,017)	(223,007
Other adjustments	0	0	0	0	(
•	0	0	0	0	(
Net other adjustments					
Movement in cash	39,490	(19,302)	199,654	228,207	220,819
Free cash flow to firm (FCFF)	212,759.39	35,783.75	454,040.89	482,055.02	480,211.4
Free cash flow to equity (FCFE)	53,771.55	(5,020.35)	242,498.77	270,622.10	268,817.16
Per share (THB)					
FCFF per share	7.45	1.25	15.90	16.88	16.8
FCFE per share	1.88	(0.18)	8.49	9.47	9.4
Recurring cash flow per share	10.03	5.77	14.96	15.87	15.8
Balance Sheet (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
	1 010 242	2,020,927	0.404.000	2 244 926	2 252 22
Tangible fixed assets (gross)	1,910,343	2,020,837	2,131,332	2,241,826	2,352,32
Less: Accumulated depreciation	(1,392,217)	(1,556,017)	(1,729,024)	(1,911,239)	(2,102,661
Tangible fixed assets (net)	518,126	464,821	402,308	330,588	249,65
Intangible fixed assets (net)	21,678	21,679	21,679	21,679	21,67
Long-term financial assets	-	-	-	-	000.04
nvest. in associates & subsidiaries	75,680	128,779	184,568	241,347	299,21
Cash & equivalents	333,251	313,949	513,604	741,811	962,63
A/C receivable	110,528	196,243	207,158	222,069	236,56
nventories	129,779	210,410	222,114	238,101	253,64
Other current assets	147,372	132,804	583,070	579,144	575,48
Current assets	720,930	853,406	1,525,945	1,781,126	2,028,32
Other assets	1,207,769	1,609,335	963,831	889,566	816,41
Total assets	2,544,183	3,078,019	3,098,330	3,264,306	3,415,28
Common equity	882,040	1,006,696	1,097,947	1,207,281	1,301,17
Minorities etc.	403,805	466,243	393,333	425,934	459,81
Total shareholders' equity	1,285,845	1,472,940	1,491,280	1,633,215	1,760,99
Long term debt	664,732	786,224	781,224	776,224	771,22
Other long-term liabilities	295,579	325,201	306,563	303,542	300,35
Long-term liabilities	960,312	1,111,425	1,087,786	1,079,766	1,071,57
A/C payable	174,873	316,864	334,488	358,564	381,97
Short term debt	98,793	106,778	114,763	122,748	130,73
Other current liabilities	24,360	70,013	70,013	70,013	70,01
Current liabilities	298,026	493,654	519,264	551,325	582,71
Total liabilities and shareholders' equity	2,544,183	3,078,019	3,098,330	3,264,306	3,415,28
Net working capital	188,446	152,580	607,841	610,738	613,70
nvested capital	2,011,699	2,377,193	2,180,226	2,093,918	2,000,67
fincludes convertibles and preferred stock which is b		_,_,,,,,	_,,,,	_,,,,,,,,	_,,
·				40.07	
Per share (THB)	20.00	25.24	20.44		15 5
Per share (THB) Book value per share	30.88	35.24	38.44	42.27	45.5
Per share (THB) Book value per share Fangible book value per share	30.88 30.12	35.24 34.49	38.44 37.68	41.51	
Per share (THB) Book value per share Fangible book value per share Financial strength	30.12	34.49	37.68	41.51	44.8
Per share (THB) Book value per share Fangible book value per share Financial strength Net debt/equity (%)	30.12	34.49	37.68 25.6	41.51 9.6	44.8
Per share (THB) 3ook value per share Fangible book value per share Financial strength Net debt/equity (%) Net debt/total assets (%)	30.12 33.5 16.9	34.49 39.3 18.8	25.6 12.3	9.6 4.8	(3.4)
Per share (THB) Book value per share Fangible book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x)	30.12 33.5 16.9 2.4	34.49 39.3 18.8 1.7	25.6 12.3 2.9	9.6 4.8 3.2	(3.4 (1.8 3.4
Per share (THB) Book value per share angible book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x)	30.12 33.5 16.9	34.49 39.3 18.8	25.6 12.3	9.6 4.8	(3.4 (1.8 3.4
Per share (THB) Book value per share Tangible book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x)	30.12 33.5 16.9 2.4	34.49 39.3 18.8 1.7	25.6 12.3 2.9	9.6 4.8 3.2	44.8 (3.4 (1.8 3. 13.
Per share (THB) Book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation	30.12 33.5 16.9 2.4 9.5	34.49 39.3 18.8 1.7 4.0	25.6 12.3 2.9 12.6	9.6 4.8 3.2 13.6	(3.4.8 (1.3.3 3 13 2024
Per share (THB) Book value per share Tangible book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) *	30.12 33.5 16.9 2.4 9.5	34.49 39.3 18.8 1.7 4.0 2021	25.6 12.3 2.9 12.6 2022E	9.6 4.8 3.2 13.6 2023E	44.8 (3.4 (1.4 3 13 2024
Per share (THB) Book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) /aluation Recurring P/E (x) * Recurring P/E @ target price (x) *	30.12 33.5 16.9 2.4 9.5 2020 18.4	34.49 39.3 18.8 1.7 4.0 2021 11.7	25.6 12.3 2.9 12.6 2022E 7.8	9.6 4.8 3.2 13.6 2023E 6.9	44.8 (3.4 (1.4 3 13 2024 7 12
Per share (THB) Book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Recurring P/E @ target price (x) * Reported P/E (x)	30.12 33.5 16.9 2.4 9.5 2020 18.4 30.2	34.49 39.3 18.8 1.7 4.0 2021 11.7 19.2	37.68 25.6 12.3 2.9 12.6 2022E 7.8 12.8	9.6 4.8 3.2 13.6 2023E 6.9 11.3	44.8 (3.4 (1.3 3 13 2024 7 12
Per share (THB) Book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%)	30.12 33.5 16.9 2.4 9.5 2020 18.4 30.2 27.6 1.4	39.3 18.8 1.7 4.0 2021 11.7 19.2 9.6 1.4	25.6 12.3 2.9 12.6 2022E 7.8 12.8 7.8 4.1	9.6 4.8 3.2 13.6 2023E 6.9 11.3 6.9 4.1	44.8 (3.4 (1.3 3 13 2024 7 12 7 4
Per share (THB) Book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) /aluation Recurring P/E (x) * Reported P/E (x) Dividend yield (%) Price/book (x)	30.12 33.5 16.9 2.4 9.5 2020 18.4 30.2 27.6 1.4 1.2	39.3 18.8 1.7 4.0 2021 11.7 19.2 9.6 1.4 1.0	37.68 25.6 12.3 2.9 12.6 2022E 7.8 12.8 7.8 4.1 0.9	9.6 4.8 3.2 13.6 2023E 6.9 11.3 6.9 4.1 0.9	44.8 (3. (1. 3 13 2024 7 12 7 4
Per share (THB) Book value per share Tangible book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x)	30.12 33.5 16.9 2.4 9.5 2020 18.4 30.2 27.6 1.4 1.2 1.2	39.3 18.8 1.7 4.0 2021 11.7 19.2 9.6 1.4 1.0	37.68 25.6 12.3 2.9 12.6 2022E 7.8 12.8 7.8 4.1 0.9 1.0	9.6 4.8 3.2 13.6 2023E 6.9 11.3 6.9 4.1 0.9 0.9	7. 44.8 7. 44.8 7. 42.4 7. 4. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9
Per share (THB) Book value per share Tangible book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Recurring P/E (x) target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x) EV/EBITDA (x) **	30.12 33.5 16.9 2.4 9.5 2020 18.4 30.2 27.6 1.4 1.2 1.2 8.0	39.3 18.8 1.7 4.0 2021 11.7 19.2 9.6 1.4 1.0 1.1 5.3	37.68 25.6 12.3 2.9 12.6 2022E 7.8 12.8 7.8 4.1 0.9 1.0 4.6	9.6 4.8 3.2 13.6 2023E 6.9 11.3 6.9 4.1 0.9 0.9 4.0	7. 44.8 (3.4 (1.3 3. 13. 2024 7. 12. 7 4. 0. 0. 0. 3.
Per share (THB) Book value per share Tangible book value per share Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x)	30.12 33.5 16.9 2.4 9.5 2020 18.4 30.2 27.6 1.4 1.2 1.2	39.3 18.8 1.7 4.0 2021 11.7 19.2 9.6 1.4 1.0	37.68 25.6 12.3 2.9 12.6 2022E 7.8 12.8 7.8 4.1 0.9 1.0	9.6 4.8 3.2 13.6 2023E 6.9 11.3 6.9 4.1 0.9 0.9	(3.4)

Sources: PTT PCL; FSSIA estimates

Corporate Governance report of Thai listed companies 2020

	NT LEVEL	. <u>-</u>								
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
OV8	EA	EASTW	ECF	ECL	EGCO	EPG	ETE	FNS	FPI	FPT
SMART	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	ОТО	PAP	PCSGH	PDJ	PG	PHOL	PLANB	PLANET
	PORT	PPS	PR9			PRM				
PLAT				PREB	PRG		PSH	PSL	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	SEAOIL	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
ГНІР	THRE	THREL	TIP	TIPCO	TISCO	TK	TKT	TTB	TMILL	TNDT
ΓNL	TOA	TOP	TPBI	TQM	TRC	TSC	TSR	TSTE	TSTH	TTA
TTCL	TTW	TU	TVD	TVI	TVO	TWPC	U	UAC	UBIS	UV
/GI	VIH	WACOAL	WAVE	WHA	WHAUP	WICE	WINNER	TRUE		
IEBY CO	OD LEVEL									
	OD LEVEL	ACE	100	ADD	AFC	AFONTO	ACE	A11	ALIC	AIT
2S	ABM	ACE	ACG	ADB	AEC	AEONTS	AGE	AH	AHC	AIT
ALLA	AMANAH	AMARIN	APCO	APCS	APURE	AQUA	ASAP	ASEFA	ASIA	ASIAN
ASIMAR	ASK	ASN	ATP30	AUCT	AWC	AYUD	В	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
STAR	FE	FLOYD	FN	FORTH	FSS	FTE	FVC	GENCO	GJS	GL
GLAND	GLOBAL	GLOCON	GPI	GULF	GYT	HPT	HTC	ICN	IFS	ILM
MH	INET	INSURE	IRC	IRCP	IT	ITD	ITEL	J	JAS	JCK
ICKH	JMART	JMT	KBS	KCAR	KGI	KIAT	KOOL	KTIS	KWC	KWM
.&E	LALIN	LDC	LHK	LOXLEY	LPH	LRH	LST	M	MACO	MAJOR
MBAX	MEGA	META	MFC	MGT	MILL	MITSIB	MK	MODERN	MTI	MVP
NETBAY	NEX	NINE	NTV	NWR	OCC	OGC	OSP	PATO	PB	PDG
NETBAT PDI	PICO	PIMO			PM	PPP	PRIN	PRINC	PSTC	PDG
			PJW	PL						
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
CC	TCMC	TEAM	TEAMG	TFG	TIGER	TITLE	TKN	TKS	TM	TMC
ΓMD	TMI	TMT	TNITY	TNP	TNR	TOG	TPA	TPAC	TPCORP	TPOLY
ΓPS	TRITN	TRT	TRU	TSE	TVT	TWP	UEC	UMI	UOBKH	UP
JPF	UPOIC	UT	UTP	UWC	VL	VNT	VPO	WIIK	WP	XO
/UASA	ZEN	ZIGA	ZMICO	-			-			-
OOD LE	VEL A	ABICO	AJ	ALL	ALUCON	AMC	APP	ARIN	AS	AU
352	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
SSC	GTB	HTECH	HUMAN	IHL	INOX	INSET	IP	JTS	JUBILE	KASET
CM	KKC	KUMWEL	KUN	KWG	KYE	LEE	MATCH	MATI	M-CHAI	MCS
/IDX	MJD	MM	MORE	NC	NDR	NER	NFC	NNCL	NPK	NUSA
CEAN	PAF	PF	PK	PLE	PMTA	POST	PPM	PRAKIT	PRECHA	PRIME
PROUD	PTL	RBF	RCI	RJH	ROJNA	RP	RPH	RSP	SF	SFLEX
GP	SISB	SKN	SLP	SMART	SOLAR	SPG	SQ	SSP	STARK	STC
SUPER	SVOA	TC	TCCC	THMUI	TIW	TNH	TOPP	TPCH	TPIPP	TPLAS
TI	TYCN	UKEM	UMS	VCOM	VRANDA	WIN	WORK	WPH		
		Description						Score F	Range	
		Excellent						90-1	00	
		Very Good						80-8	39	

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,

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

and corruption SEC imposed a civil sanction against insider trading of director and executive; ** delisted

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

Declared This level indicates determination to participate in the Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC)

Disclaimer:

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

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

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

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

Suwat Sinsadok, 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-May-2020

Price and TP are in local currency

Source: FSSIA estimates

PTT Explor & Prod (PTTEP TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
29-Oct-2019 11-Mar-2020 26-Mar-2020 30-Apr-2020		123.00 81.00 81.00 85.00	12-Jun-2020 30-Dec-2020 11-Feb-2021 05-Jul-2021	BUY BUY BUY BUY	101.00 116.00 136.00 158.00	28-Jan-2022 16-Mar-2022	BUY BUY	162.00 176.00

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 PCL	PTT TB	THB 36.50	BUY	Risks to our SoTP-based valuation are the oil price and potential earnings downside from government intervention.
PTT Explor & Prod	PTTEP TB	THB 149.50	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

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 12-May-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.