

10 NOVEMBER 2021

THAILAND / PETROCHEM & CHEMICALS

PTT GLOBAL CHEMICAL PTTGC TB

BUY

UNCHANGED

TARGET PRICE	THB75.00
CLOSE	THB62.00
UP/DOWNSIDE	+21.0%
TP vs CONSENSUS	+0.8%

Stumbling on hedging loss

Weaker olefins margins offset by stronger PC margins

PTTGC's 3Q21 net profit (NP) was THB7b, down 72% q-q but up 7.7x y-y. Core NP was THB8.7b, down 17% q-q but up 12x y-y, missing BBG consensus by 18% and our estimate by 5% due to the absence of the divestment gain of THB11.9b for a 12.73% stake in Global Power Synergy (GPSC TB, BUY, TP THB100) in 2Q21. Key drags were weaker olefins product margins that were offset by the strong margins of products in the performance material and chemical group (PC; phenol, propylene oxide, and polyols), aromatics spreads, and the rising gross refining margin (GRM). The overall EBITDA margin in 3Q21 was at 13.5% (vs 14.9% in 2Q21 and 8.7% in 3Q20). Non-operating items included a stock gain of THB1.2b, a hedging loss of THB1.7b, and an FX loss of THB1.2b.

Hedging loss eroded refinery earnings

The refinery unit had a 3Q21 net loss of THB1.8b, and its EBITDA margin plunged to -7% from -1% in 2Q21 due to a large hedging loss of USD7.6/bbl that outweighed the refinery market GRM of USD3.2/bbl (+162% y-y, +58% q-q) and a stock gain of USD1.29/bbl. The refinery utilisation rate dipped to 77% in 3Q21 vs 101% in 2Q21. For aromatics, 3Q21 NP was THB3.5b, driven by a large hedging gain of USD76.9/t vs the P2F at USD188/t (+141% y-y, +4% q-q), a higher PX-condensate margin of USD303/t (+60% y-y, +6% q-q), but a lower benzene-condensate margin of USD377/t (+4.3x y-y, -4% q-q). The aromatics utilisation rate stayed high at 100% as there were no planned shutdowns.

Weak olefins earnings on lower margins

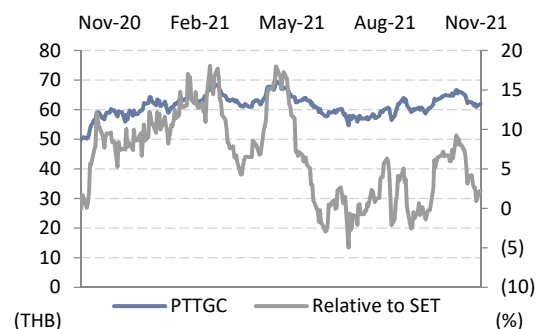
3Q21 olefins NP was at THB4.5b, down 11% q-q, dragged down by q-q lower product margins over naphtha across all products, including high density polyethylene (HDPE) (-21% q-q), linear low density polyethylene (LLDPE) (-12% q-q), low density polyethylene (LDPE) (-23% q-q), polypropylene (PP) (-21% q-q), and monoethylene glycol (MEG)-0.65 ethylene (-12% q-q). The olefins utilisation rate dipped to 91% in 3Q21, with polymers' at 104%. 3Q21 NP for PC boosted the share of profits to THB1,295m (+46% y-y, -44% q-q).

Refinery turnaround is key for a strong 4Q21-2022 outlook

We maintain our TP of THB75, based on 11.1x 2021E EV/EBITDA, above its 8-year average of 7.9x, to reflect the strong PC margins and improving earnings from olefins.

KEY STOCK DATA

YE Dec (THB m)	2020	2021E	2022E	2023E
Revenue	329,291	375,922	381,286	381,411
Net profit	200	34,846	26,728	28,891
EPS (THB)	0.04	7.73	5.93	6.41
vs Consensus (%)	-	(9.4)	(7.0)	1.1
EBITDA	19,813	50,349	54,534	55,513
Core net profit	(969)	32,431	25,227	26,526
Core EPS (THB)	(0.22)	7.19	5.60	5.88
EPS growth (%)	nm	nm	(22.2)	5.1
Core P/E (x)	(288.4)	8.6	11.1	10.5
Dividend yield (%)	6.8	6.5	14.0	12.7
EV/EBITDA (x)	18.7	10.7	10.0	9.8
Price/book (x)	1.0	0.9	1.0	1.0
Net debt/Equity (%)	29.0	84.1	89.7	90.6
ROE (%)	(0.3)	11.2	8.7	9.4



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(4.6)	6.9	34.1
Relative to country (%)	(4.2)	0.9	5.6
Mkt cap (USD m)	8,530		
3m avg. daily turnover (USD m)	40.3		
Free float (%)	51		
Major shareholder	PTT Plc. (48%)		
12m high/low (THB)	70.00/45.50		
Issued shares (m)	4,508.85		

Sources: Bloomberg consensus; FSSIA estimates



Suwat Sinsadok
 suwat.sin@fssia.com
 +66 2611 3558

Siriluck Pinthusoonthorn
 siriluck.pin@fssia.com
 +66 2611 3562

Exhibit 1: Summary of 3Q21/9M21 operations

	3Q20	2Q21	3Q21		9M20	9M21	Chg.	2021E	
	(THB m)	(THB m)	(THB m)	(q-q %)	(y-y %)	(THB m)	(THB m)	(y-y %)	(THB m)
Revenue	77,148	112,627	113,189	0.5	46.7	240,930	328,492	36.3	375,922
Operating costs	(70,402)	(95,817)	(97,938)	2.2	39.1	(231,179)	(280,027)	21.1	(308,455)
EBITDA	6,746	16,810	15,251	(9.3)	126.1	9,751	48,465	397.0	50,349
EBITDA margin (%)	8.7	14.9	13.5	nm	nm	4.0	14.8	nm	13.4
Depn & amort.	(5,079)	(5,589)	(5,837)	4.4	14.9	(15,011)	(16,884)	12.5	(28,923)
EBIT	1,274	11,801	10,770	nm	745.7	(7,644)	33,372	nm	21,426
Interest expense	(909)	(1,530)	(1,704)	11.4	87.4	(2,574)	(4,417)	71.6	(5,952)
Interest & invt inc	223	22,762	569	(97.5)	155.4	1,344	23,739	1,666.6	1,571
Associates' contrib	884	2,324	1,154	(50.4)	30.5	2,251	5,370	138.6	7,596
Exceptionals	(254)	(4,590)	(2,823)	(38.5)	nm	(100)	(8,784)	nm	12,000
Pretax profit	1,217	30,767	7,965	(74.1)	554.5	(6,723)	49,280	nm	39,056
Tax	(235)	(5,591)	(727)	(87.0)	209.3	655	(7,038)	nm	(3,839)
Tax rate (%)	19.3	18.2	9.1	(49.8)	(52.7)	9.7	14.3	46.6	9.8
Minority interests	(74)	(141)	(233)	65.5	216.8	(137)	(507)	nm	(371)
Net profit	908	25,035	7,005	(72.0)	671.2	(6,205)	41,735	nm	34,846
Non-recurring items	238	14,576	(1,652)	(111.3)	(792.9)	(9,412)	13,850	nm	2,415
Core net profit	670	10,459	8,657	(17.2)	1,192.1	3,207	27,885	769.5	32,431
EPS (THB)	0.20	5.55	1.55	(72.0)	671.2	(1.38)	9.26	nm	7.73
Core EPS (THB)	0.15	2.32	1.92	(17.2)	1,192.1	0.71	6.18	769.5	7.19

Sources: PTTGC; FSSIA estimates

Exhibit 2: 3Q21/9M21 key quarterly indicators

	3Q20	2Q21	3Q21	Change		9M20	9M21	Change
				(q-q)	(y-y)			(y-y)
Utilisation rate (%)*								
Olefins	103	93	91	(2.0)	(12.0)	95	96	1.0
MEG	95	104	110	6.0	15.0	96	106	10.0
Refinery	94	101	77	(24.0)	(17.0)	100	93	(7.0)
Aromatics	90	102	100	(2.0)	10.0	95	100	5.0
Margins								
Refinery (USD/bbl)								
Market GRM	1.22	2.03	3.20	57.6	162.3	2.38	2.76	16.0
Hedging gain (loss)	0.17	(1.57)	(7.55)	380.9	(4,541.2)	0.59	(2.88)	(588.1)
Stock gain (loss)	0.05	1.42	1.29	(9.2)	2,480.0	(4.64)	1.74	(137.5)
Accounting GRM	1.44	1.88	(3.06)	(262.8)	(312.5)	(1.67)	1.63	(197.6)
Aromatics (USD/t)								
Aromatics P2F	78.0	181.0	188.0	3.9	141.0	140.0	172.0	22.9
Hedging gain (loss)	5.9	(13.2)	76.9	(682.6)	1,203.4	2.9	20.8	617.2
Stock gain (loss)	23.4	37.6	30.0	(20.2)	28.2	(45.3)	42.5	(193.8)
Accounting P2F	107.0	205.0	295.0	43.9	175.7	98.0	235.0	139.8
Olefins (USD/t)								
HDPE price	919	1,191	1,138	(4.5)	23.8	839	1,158	38.0
Naphtha	397	606	676	11.6	70.3	370	613	65.7
HDPE-naphtha	522	585	462	(21.0)	(11.5)	469	545	16.2
Net profit breakdown by product group (THB m)								
Olefins & derivatives	1,798	5,033	4,460	(11.4)	148.1	1,655	14,386	769.2
Refinery	(775)	(276)	(1,837)	565.6	137.0	(6,521)	(865)	(86.7)
Aromatics	(591)	1,482	3,513	137.0	(694.4)	(1,640)	6,061	(469.6)
EO/EG, JV	506	1,574	(2,962)	(288.2)	(685.4)	(458)	(2,214)	383.4
Green chemical	48	(2,971)	172	(105.8)	258.3	(80)	(2,668)	3,235.0
High volume specialties	487	3,454	3,671	6.3	653.8	771	9,827	1,174.6
Services & others	(565)	16,739	(12)	(100.1)	(97.9)	98	17,208	17,459.2
Total net profit	908	25,035	7,005	(72.0)	671.5	(6,175)	41,735	(775.9)
EBITDA margin (%)*								
Overall	9	15	14	(1.0)	5.0	4	15	11.0
Overall excluding stock gain/loss	8	14	13	(1.0)	5.0	8	13	5.0
Olefins & derivatives	19	26	18	(8.0)	(1.0)	13	23	10.0
Refinery	-	(1)	(7)	(6.0)	(7.0)	3	-2	(5.0)
Aromatics	1	12	24	12.0	23.0	10	15	5.0
Green	7	5	10	5.0	3.0	4	8	4.0
HVS	16	30	30	-	14.0	14	29	15.0

*Note: Change in % is represented in ppt change

Sources: PTTGC; FSSIA estimates

Financial Statements

PTT Global Chemical

Profit and Loss (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023E
Revenue	412,810	329,291	375,922	381,286	381,411
Cost of goods sold	(370,369)	(294,596)	(308,455)	(309,398)	(308,532)
Gross profit	42,441	34,695	67,466	71,888	72,879
Other operating income	-	-	-	-	-
Operating costs	(16,469)	(14,881)	(17,117)	(17,353)	(17,366)
Operating EBITDA	25,972	19,813	50,349	54,534	55,513
Depreciation	(20,250)	(22,497)	(28,923)	(35,349)	(37,596)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	5,722	(2,683)	21,426	19,185	17,917
Net financing costs	(363)	(3,861)	4,619	(632)	1,540
Associates	4,559	3,323	7,596	6,753	6,489
Recurring non-operating income	5,877	5,918	10,596	10,177	10,760
Non-recurring items	1,763	1,169	2,415	1,501	2,365
Profit before tax	12,999	543	39,056	30,231	32,582
Tax	(649)	109	(3,839)	(3,133)	(3,321)
Profit after tax	12,349	652	35,217	27,099	29,262
Minority interests	(667)	(452)	(371)	(371)	(371)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	11,682	200	34,846	26,728	28,891
Non-recurring items & goodwill (net)	(1,763)	(1,169)	(2,415)	(1,501)	(2,365)
Recurring net profit	9,919	(969)	32,431	25,227	26,526
Per share (THB)					
Recurring EPS *	2.20	(0.22)	7.19	5.60	5.88
Reported EPS	2.59	0.04	7.73	5.93	6.41
DPS	7.77	4.24	4.02	8.71	7.85
Diluted shares (used to calculate per share data)	4,508	4,508	4,508	4,508	4,508
Growth					
Revenue (%)	(20.4)	(20.2)	14.2	1.4	0.0
Operating EBITDA (%)	(54.3)	(23.7)	154.1	8.3	1.8
Operating EBIT (%)	(84.9)	nm	nm	(10.5)	(6.6)
Recurring EPS (%)	(75.6)	nm	nm	(22.2)	5.1
Reported EPS (%)	(70.8)	(98.3)	17,357.6	(23.3)	8.1
Operating performance					
Gross margin inc. depreciation (%)	5.4	3.7	10.3	9.6	9.3
Gross margin of key business (%)	5.4	3.7	10.3	9.6	9.3
Operating EBITDA margin (%)	6.3	6.0	13.4	14.3	14.6
Operating EBIT margin (%)	1.4	(0.8)	5.7	5.0	4.7
Net margin (%)	2.4	(0.3)	8.6	6.6	7.0
Effective tax rate (%)	5.0	-20.1	9.8	10.4	10.2
Dividend payout on recurring profit (%)	353.0	(1,973.8)	55.9	155.7	133.3
Interest cover (X)	31.9	0.8	(6.9)	46.5	(18.6)
Inventory days	37.3	43.2	36.7	33.9	34.2
Debtor days	35.3	35.2	30.3	31.9	32.1
Creditor days	44.6	44.7	40.5	43.4	43.8
Operating ROIC (%)	2.1	(0.9)	(0.6)	(0.5)	(0.4)
ROIC (%)	2.8	0.7	(0.7)	(0.6)	(0.5)
ROE (%)	3.4	(0.3)	11.2	8.7	9.4
ROA (%)	2.4	0.6	6.0	4.1	4.4
* Pre exceptional, pre-goodwill and fully diluted					
Revenue by Division (THB m)					
Refinery and shared facilities	163,414	136,654	164,337	168,315	168,440
Aromatics	68,525	59,125	79,125	79,125	79,125
Olefins and derivatives	107,407	90,258	81,475	82,861	82,861
Green Chemicals	19,852	13,652	18,652	19,652	19,652

Sources: PTT Global Chemical; FSSIA estimates

Financial Statements

PTT Global Chemical

Cash Flow (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023E
Recurring net profit	9,919	(969)	32,431	25,227	26,526
Depreciation	20,250	22,497	28,923	35,349	37,596
Associates & minorities	(6,000)	(6,001)	(7,596)	(6,753)	(6,489)
Other non-cash items	(1,931)	(1,584)	(1,584)	(1,584)	(1,584)
Change in working capital	7,728	6,024	(2,740)	13	363
Cash flow from operations	29,966	19,966	49,435	52,252	56,411
Capex - maintenance	-	-	-	-	-
Capex - new investment	(40,000)	(40,000)	(188,800)	(40,000)	(40,000)
Net acquisitions & disposals	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)
Other investments (net)	(780)	(770)	(770)	(770)	(770)
Cash flow from investing	(41,780)	(41,770)	(190,570)	(41,770)	(41,770)
Dividends paid	(35,011)	(19,131)	(18,128)	(39,266)	(35,369)
Equity finance	0	0	0	0	0
Debt finance	(8,488)	(8,486)	143,307	(1,000)	(10,000)
Other financing cash flows	27,312	68,174	(10,779)	22,662	23,526
Cash flow from financing	(16,188)	40,556	114,400	(17,605)	(21,843)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	(28,002)	18,752	(26,735)	(7,123)	(7,202)
Free cash flow to firm (FCFF)	(8,695.04)	(18,292.83)	(135,182.97)	18,637.53	22,619.01
Free cash flow to equity (FCFE)	7,009.26	37,883.83	(8,607.37)	32,143.60	28,166.93
Per share (THB)					
FCFF per share	(1.93)	(4.06)	(29.98)	4.13	5.02
FCFE per share	1.55	8.40	(1.91)	7.13	6.25
Recurring cash flow per share	4.93	3.09	11.57	11.59	12.43
Balance Sheet (THB m) Year Ending Dec					
Tangible fixed assets (gross)	380,497	420,497	609,297	649,297	689,297
Less: Accumulated depreciation	(154,746)	(177,243)	(206,166)	(241,515)	(279,111)
Tangible fixed assets (net)	225,751	243,254	403,131	407,782	410,186
Intangible fixed assets (net)	0	0	0	0	0
Long-term financial assets	-	-	-	-	-
Invest. in associates & subsidiaries	44,790	51,791	60,387	68,140	75,629
Cash & equivalents	25,560	44,313	17,578	10,455	3,253
A/C receivable	34,157	29,277	33,062	33,534	33,545
Inventories	36,252	33,445	28,532	28,939	28,949
Other current assets	8,525	22,876	22,876	12,876	12,876
Current assets	104,494	129,911	102,048	85,804	78,623
Other assets	77,478	64,426	64,426	64,426	44,426
Total assets	452,514	489,383	629,993	626,153	608,864
Common equity	285,830	281,015	297,734	285,195	278,716
Minorities etc.	7,765	7,979	4,419	4,790	5,161
Total shareholders' equity	293,595	288,994	302,153	289,985	283,878
Long term debt	96,918	126,261	269,568	268,568	258,568
Other long-term liabilities	8,968	15,086	14,760	23,567	22,374
Long-term liabilities	105,886	141,347	284,328	292,135	280,942
A/C payable	40,102	31,988	36,518	37,039	37,052
Short term debt	10,129	1,993	1,993	1,993	1,993
Other current liabilities	2,802	25,060	5,000	5,000	5,000
Current liabilities	53,033	59,041	43,512	44,033	44,045
Total liabilities and shareholders' equity	452,514	489,383	629,993	626,153	608,864
Net working capital	36,030	28,550	42,952	33,310	33,318
Invested capital	384,050	388,022	570,897	573,658	563,560
* Includes convertibles and preferred stock which is being treated as debt					
Per share (THB)					
Book value per share	63.41	62.34	66.05	63.26	61.83
Tangible book value per share	63.41	62.34	66.05	63.26	61.83
Financial strength					
Net debt/equity (%)	27.8	29.0	84.1	89.7	90.6
Net debt/total assets (%)	18.0	17.2	40.3	41.5	42.3
Current ratio (x)	2.0	2.2	2.3	1.9	1.8
CF interest cover (x)	130.5	21.2	(38.0)	115.2	(43.3)
Valuation					
Recurring P/E (x) *	28.2	(288.4)	8.6	11.1	10.5
Recurring P/E @ target price (x) *	34.1	(348.8)	10.4	13.4	12.7
Reported P/E (x)	23.9	1,400.2	8.0	10.5	9.7
Dividend yield (%)	12.5	6.8	6.5	14.0	12.7
Price/book (x)	1.0	1.0	0.9	1.0	1.0
Price/tangible book (x)	1.0	1.0	0.9	1.0	1.0
EV/EBITDA (x) **	14.2	18.7	10.7	10.0	9.8
EV/EBITDA @ target price (x) **	16.5	21.7	11.8	11.1	10.8
EV/invested capital (x)	1.0	1.0	0.9	0.9	1.0
* Pre-exceptional, pre-goodwill and fully diluted ** EBITDA includes associate income and recurring non-operating income					

Sources: PTT Global Chemical; FSSIA estimates

Corporate Governance report of Thai listed companies 2020

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

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

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

Description

Score Range

Excellent

90-100

Very Good

80-89

Good

70-79

Disclaimer:

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

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

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

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

Anti-corruption Progress Indicator 2020

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

DECLARED										
7UP	ABICO	AF	ALT	AMARIN	AMATA	AMATAV	ANAN	APURE	B52	BKD
BM	BROCK	BUI	CHO	CI	COTTO	DDD	EA	EFORL	EP	ERW
ESTAR	ETE	EVER	FSMART	GPI	ILINK	IRC	J	JKN	JMART	JMT
JSP	JTS	KWG	LDC	MAJOR	META	NCL	NOBLE	NOK	PK	PLE
ROJNA	SAAM	SAPPE	SCI	SE	SHANG	SINGER	SKR	SPALI	SSP	STANLY
SUPER	SYNEX	THAI	TKS	TOPP	TRITN	TTA	UPF	UV	WIN	ZIGA

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

Disclaimer:

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

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

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

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

Suwat Sinsadok FSS International Investment Advisory Securities Co., Ltd

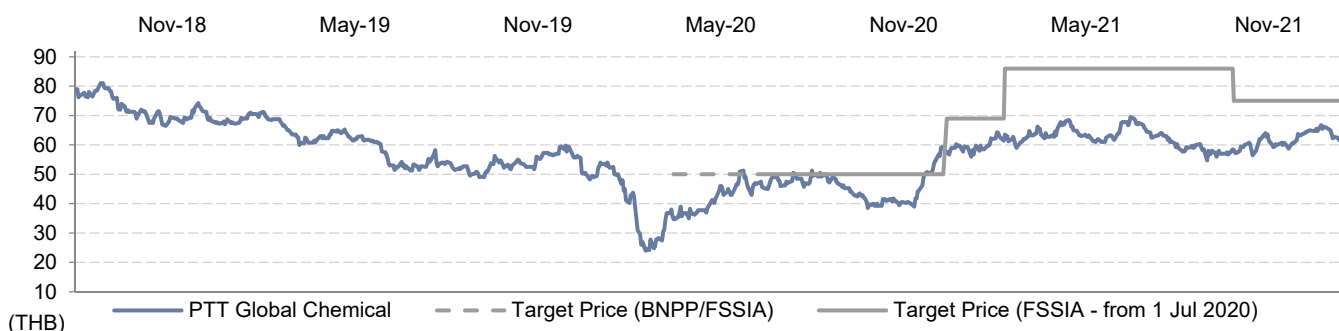
The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s) was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed herein.

This report has been prepared by FSS International Investment Advisory Company Limited (FSSIA). The information herein has been obtained from sources believed to be reliable and accurate; however FSS makes no representation as to the accuracy and completeness of such information. Information and opinions expressed herein are subject to change without notice. FSS has no intention to solicit investors to buy or sell any security in this report. In addition, FSS does not guarantee returns nor price of the securities described in the report nor accept any liability for any loss or damage of any kind arising out of the use of such information or opinions in this report. Investors should study this report carefully in making investment decisions. All rights are reserved.

This report may not be reproduced, distributed or published by any person in any manner for any purpose without permission of FSSIA. Investment in securities has risks. Investors are advised to consider carefully before making investment decisions.

History of change in investment rating and/or target price

PTT Global Chemical (PTTGC TB)



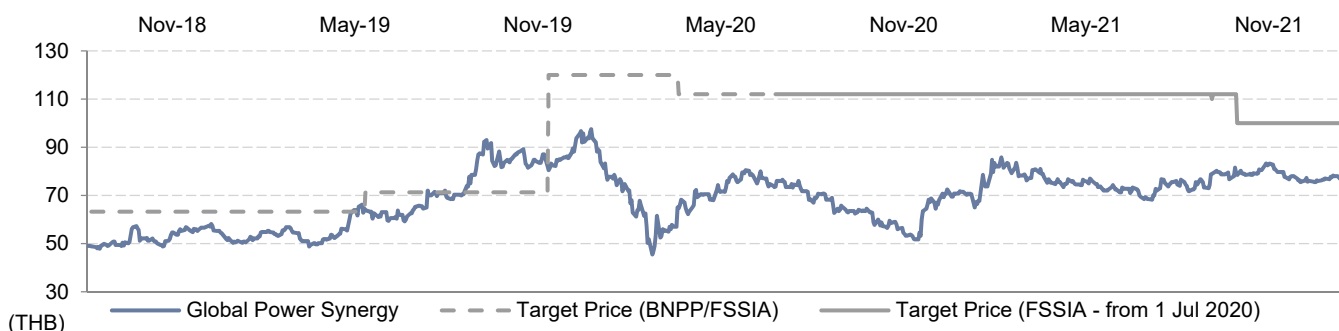
Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
09-Apr-2020	BUY	50.00	18-Jan-2021	BUY	86.00	12-Jul-2021	BUY	86.00
08-May-2020	BUY	50.00	16-Feb-2021	BUY	86.00	03-Aug-2021	BUY	75.00
27-Nov-2020	BUY	69.00	21-Apr-2021	BUY	86.00			

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

Price and TP are in local currency

Source: FSSIA estimates

Global Power Synergy (GPSC TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
15-Nov-2018	BUY	63.25	08-May-2020	BUY	112.00	14-Jul-2021	BUY	110.00
11-Jul-2019	BUY	71.27	03-Aug-2020	BUY	112.00	15-Jul-2021	BUY	112.00
17-Dec-2019	BUY	120.00	21-Aug-2020	BUY	112.00	05-Aug-2021	BUY	100.00
08-Apr-2020	BUY	112.00	15-Feb-2021	BUY	112.00			

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

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
PTT Global Chemical	PTTGC TB	THB 62.00	BUY	The key downside risks to our EV/EBITDA-based TP are the weaker-than-expected HDPE price and HDPE-naphtha margin.
Global Power Synergy	GPSC TB	THB 75.25	BUY	The downside risks to our SoTP-based TP on GPSC include 1) lower-than-expected demand for electricity in Thailand; 2) a lower crude price; and 3) lower-than-expected demand from industrial users.

Source: FSSIA estimates

Additional Disclosures

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finasia 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 Finasia Syrus Securities Public Company Limited, which is the parent company of FSSIA.

All share prices are as at market close on 09-Nov-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.