PTTGC



PTT Global Chemical

PTT Global Chemical Public Company Limited Bloomberg PTTGC TB Reuters PTTGC.BK

Preview 4Q23F: Supported by extra gains

We expect 4Q23F net earnings (release on Feb 12) to be in the black despite lower product spread at both oil refining and petrochemical segments and a stock loss, backed by extra gains on asset divestment and US bond buyback. These items will pull it to a net profit in 2023 from a net loss of Bt4.1bn in 9M23. We expect core earnings to improve YoY in 2024F on better oil refining margin and gradual improvement in olefins and polymer and performance chemical segments. Although share price (-12%) underperformed the SET (-3%) over the past month, we expect limited interest in the stock until we see a better outlook for global economies in general and the petrochemical industry in particular. We stay Neutral with TP of Bt50/share, based on 0.8x PBV (2024F), implying 8.4x EV/EBITDA (2024F).

Operations in the red in 4Q23F. With a narrower market GRM and lower oil price QoQ, we expect 4Q23F operating performance to sink to a loss of Bt1.7bn from a profit of Bt1.6bn in 3Q23. Crack spread for gasoil, nearly 70% of total oil refining sales volume, fell 21% QoQ in 4Q23, despite higher seasonal demand, shrinking oil refining market GRM by 40% QoQ to US\$7.6/bbl, still better than Singapore GRM of US\$5.5/bbl. The segment will also be hit by a stock loss of Bt3.3bn, offset by hedging gain of Bt2bn. Petrochemical earnings will be hurt by a planned olefins cracker and downstream PE maintenance shutdown and weaker chemical earnings on low season for allnex and low spread.

Net profit backed by extra items. Still, we expect it to report a net profit of Bt4.5bn in 4Q23 despite the operating loss, underwritten by Bt5.8bn in extra gains on FX and asset divestment. This will bring 2023 to a net profit of Bt390mn from 9M23 net loss of Bt4.1bn.

Core profit in 1Q24 expected to improve QoQ on better GRM. Slower demand and a supply imbalance in the petrochemical market will continue to hamper the petrochemical business while feedstock cost stays high on tighter supply. Nonetheless, we expect core profit to improve QoQ in 1Q24 on the recovery of GRM (+32% QTD to US\$7.24/bbl), though the boost to PTTGC will be smaller than for other refiners as higher crack spread for gasoline and fuel oil is key to GRM, not gasoil (70% of PTTGC's product yield). We expect earnings from the performance chemical segment to improve QoQ after the low season in 4Q23.

Chemical business expected to recover in 2024. We expect demand in the petrochemical business to improve gradually in 2024, backed by strong global GDP growth (+3% YoY, IMF forecast). PTTGC also has fewer planned maintenance shutdowns in 2024, including an olefins cracker in 3Q24. The key factor is the availability of ethane supply from PTT, which will return to normal in Apr 2024. PTTGC also has alternative feedstock, propane, from the olefins 2 modification project (OMP) which started up in 2Q23. Demand for allnex's products (coating resins and additives) with an EBITDA margin premium to PTTGC's, is expected to gradually recover YoY, pegged to improving markets in Europe, the US and Asia. We expect an earnings turnaround in 2024F, though still far below the 5-year average pre-COVID of Bt27bn.

Key risk factors: 1) Volatile crude oil price and product spread for oil refining and petrochemicals, 2) higher feedstock cost due to lower gas feedstock, 3) asset impairment, 4) regulatory change on GHG emissions and single-use plastics (<3% of capacity), and 5) change in allocation of domestic gas supply to petrochemicals. Key ESG risk factors include the environmental impact of its business and how it adapts during the transition to clean energy and a circular economy.

Forecasts and valuation

Year to 31 Dec	Unit	2021	2022	2023F	2024F	2025F
Revenue	(Btmn)	468,953	683,954	613,545	600,573	581,846
EBITDA	(Btmn)	61,952	46,537	36,425	56,202	56,878
Core profit	(Btmn)	32,313	13,792	(5,480)	13,461	14,038
Reported profit	(Btmn)	44,982	(8,752)	390	13,461	14,038
Core EPS	(Bt)	7.17	3.06	(1.22)	2.99	3.11
DPS	(Bt)	3.75	1.00	0.50	1.50	1.60
P/E, core	(X)	4.8	11.2	n.a.	11.5	11.0
EPS growth, core	(%)	n.a.	(57.3)	n.a.	n.a.	4.3
P/BV, core	(X)	0.5	0.5	0.5	0.5	0.5
ROE	(%)	10.5	4.4	(1.8)	4.2	4.3
Dividend yield	(%)	10.9	2.9	1.5	4.4	4.7
EV/EBITDA	(X)	4.7	8.6	11.4	7.1	6.7

Source: InnovestX Research

Tactical: NEUTRAL

Stock data						
Last close (Jan 2		34.25				
Target price (Bt)			50.00			
Mkt cap (Btbn)			154.43			
Mkt cap (US\$mn)		4,359			
Beta			Н			
Mkt cap (%) SET			0.91			
Sector % SET		1.99				
Shares issued (m	n)	4,509				
Par value (Bt)		10.00				
12-m high / low (Bt)	52.5 / 31.8				
Avg. daily 6m (US	S\$mn)	12.34				
Foreign limit / ac	tual (%)	37 / 11				
Free float (%)		54.8				
Dividend policy (%)	≥ 30				
Share perform	nance					
(%)	1M	3M	12M			
Absolute	(11.0)	(3.5)	(31.5)			
Relative to SET	(8.5)	(2.1) (16.				

Source: SET, Innove	stX Resea	arch			
2023 Sustainab	ility/20	22 ES	SG S	Score	J
SET ESG Ratings				AAA	4

ESG Bloomberg Rank in the sector

2/15
1/15
2/15
2/15

ESG comment

PTTGC had the sector's best environmental and governance scores in 2021, with an outstanding social score. The company has set up concrete plans to achieve target to reduce greenhouse gas by 20% within 2030 from the peak year in 2025.

Source: Bloomberg Finance L.P.

Analyst

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Value proposition

PTTGC is PTT Group's flagship chemical company. It is also the largest ethane-based petrochemical producer in Thailand with fully integrated petrochemical and refinery operations and a diversified product portfolio covering the full hydrocarbon chain, as well as ventures in green chemicals. While the ethylene output from the 2.9mtpa-crackers is mostly consumed internally to produce 1.9mtpa polyethylene, it also supplies propylene to contracted customers, primarily companies under the PTT Group. PTTGC also operates a 280kbd oil refinery, comprising a 145kbd conventional oil refinery and 135kbd condensate residual splitter. It has steadily expanded its product portfolio to specialty chemicals, including ethylene oxide (EO)-based performance products and ethylene glycol (EG), as well as phenol and related. It invested in a global coating resins firm – allnex – to strengthen its HVA product portfolio and international business. PTTGC has invested in the bio-based chemical business, using crude palm oil and crude palm kernel oil as the key feedstock to produce methyl ester (biodiesel) and related products via subsidiary Global Green Chemicals Plc (GGC).

Business outlook

Following poor earnings in 2023, we expect a profit in 2024, assuming gas supply from PTT's gas separation plants (GSP) returns to normal. This relies heavily on the full committed production volume of G1/61 (Erawan) at 800mmcfd, which is scheduled in Apr 2024. Sluggish petrochemical demand and new capacity additions in China and the Middle East are likely to keep product spread lower than historical average. Oil refinery and aromatics businesses will continue to be in the driver's seat in 2024 due to steady recovery in demand and lower additional PX capacity. More contribution from the specialty chemical business – allnex – is expected on the gradual recovery of demand in Europe and the US, as well as in Asia as allnex's China hub started up in 2023. Oil price fluctuation may cause inventory gain/loss throughout the year. Expanding to more specialty and recycled products will also reduce earnings volatility compared to commodity grade products.

Bullish views	Bearish views
 PTTGC's competitive feedstock cost, mainly ethane from PTT's gas separation plant, will support profitability in the medium term. 	 Lower ethane supply from PTT on lower gas production in the Gulf of Thailand at Block G1/61 (Erawan) was the key drag on olefins EBITDA margin in 2023. Any delay in G1/61 production ramp-up to committed volume of 800mmcfd remains the key risk for PTTGC's earnings. More risk has emerged from the new government's intention to alter the gas supply allocation to the petrochemical industry.
2. Feedstock flexibility will increase after the olefins retrofit project (ORP) started up in 2Q21 and the olefins 2 modification project (OMP) commenced operations in 2Q23.	 Investors are concerned about depleting gas reserves in the Gulf of Thailand which will reduce its competitiveness in the longer term.
The planned expansion in downstream specialty and recycled products will stabilize profitability in the long term.	 The company's plan to invest in an olefins cracker in the US continues to undermine investor appetite for the stock. The downcycle of the petrochemical industry has led it to defer this investment in the near term.

Key catalysts			
Factor	Event	Impact	Comment
Higher ethane feedstock	Ethane supply from PTT is expected to increase in 2024.	Positive	We expect adjusted EBITDA for the olefins business to improve in 2024 on a higher ethane supply from PTT on more production at Block G1/61 (Erawan), especially after full production is achieved in Apr 2024.
Near-term earnings outlook	4Q23F earnings	Higher YoY and QoQ	Net profit will be boosted by extra gains, but core earnings will be pressured by lower market GRM and weaker seasonal demand for petrochemical products, which continued to depress product spread amidst market pessimism on the global economic outlook.

Sensitivity Analysis

Factor	Earnings impact	TP impact
EBITDA margin (+0.1%)	+5.1% (2023F)	+Bt0.5/share



Our view on ESG

We view that PTTGC provides concrete targets on environmental and social issues with a committed timeline and actual performance relative to its targets. We view PTTGC's management and governance as satisfactory, reflecting management expertise and experience in the business, a diverse Board of Directors and transparency with stakeholders.

ESG Disclosure Score							
Bloomberg ESG Score	77.38 (2022)	(CG Ratin	g DJSI	SETESG	SET ESG Ratings	
Rank in Sector	2/15	PTTGC	5	Yes	Yes	AAA	
		Source: Thai li	nstitute of D	irectors and	d SET		
Environmental Issue (E)		Social Issue (S)					
	D from peak year in 2025 missions and cooperate with to halve scope 3 emissions izations in Thailand to nomy by raising public agement. t in renewable energy	genero leverag the ma to its re Comm end-to • PTTGC enhance	ating sust ging strat inageme ecycled p unity Wa -end was employe ce the eff	ainable i tegy via nt of was blastic re ste Mode ste mance ed custor ficiency o	income fo a Circular ste for de sin factor el project agement. mer recor of its custo	vith the goal of or local communities, Economy, mainly livery as feedstock y under the in order to promote mmendations to omer relationship intains customer	

technology and integrate green initiatives into its business operations, aiming at reducing the consumption of fossil fuels. This includes the installation of solar rooftops. The company also enhanced energy efficiency and reduced energy consumption in production process and offices. PTTGC also joins hand with other companies under PTT group to study opportunities in CCUS in Thailand.

Governance Issue (G)

- PTTGC's board of directors (2022) consists of 14 directors, 13 non-executive directors (92.8% of the entire board), 8 independent directors, which exceeds half of the board (57.1% of the entire board), and an executive director. There is one female member (7.1% of the entire board).
- The company has been rated "Excellent" (5 stars) by the Thai Institute of Directors in 2022.
- We view PTTGC's management and governance as satisfactory, reflecting management's experience and expertise, its transparency with stakeholders, and its independent board of directors.

ESG Disclosure Score

respectively.

satisfaction at 93%.

	2021	2022
ESG Disclosure Score	78.71	77.38
Environment	88.55	90.27
Emissions Reduction Initiatives	Yes	Yes
Climate Change Policy	Yes	Yes
GHG Scope 1	6,737.60	6,148.62
Biodiversity Policy	Yes	Yes
Energy Efficiency Policy	Yes	Yes
Total Energy Consumption	43,233.80	36,885.50
Social	57.68	58.22
Human Rights Policy	Yes	Yes
Equal Opportunity Policy	Yes	Yes
Health and Safety Policy	Yes	Yes
Fatalities - Employees	0.00	1.00
Total Recordable Incident Rate - Employees	0.08	0.08
Employee Turnover Pct	3.83	5.65
Governance	89.86	83.59
Size of the Board	15	14
Number of Board Meetings for the Year	16	15
Board Meeting Attendance Pct	99	100
Number of Female Executives	7	7
Number of Independent Directors	8	9
Board Duration (Years)	3	3
Source: Bloomberg Finance L.P.		

PTTGC continued to emphasize improving employee

compensation. Employee turnover rate was 5.65% in

Injury Frequency Rate and Total recordable incident

2022, slightly up from 3.83% in 2021 and Lost Time

rate was 0 and 0.4 case/1 million man-hours,

capability while maintaining work-life balance and

safety and occupational health with competitive

Source: Bloomberg Finance L.P.

Disclaimer

Bloomberg ESG Disclosure Scores rate companies on their level of disclosure of ESG data. Bloomberg offers four disclosure scores, for overall ESG, as well as Environmental, Social, and Governance. To review the fully transparent methodology, calculate disclosure scores for any company, and compare a company's scores vs its peers, see ESG Disclosure Score Model in Bloomberg.



Financial statement

Profit and Loss Stateme	ent								
FY December 31	Unit	2018	2019	2020	2021	2022	2023F	2024F	2025F
Total revenue	(Btmn)	518,655	412,810	329,291	468,953	683,954	613,545	600,573	581,846
Cost of goods sold	(Btmn)	466,026	390,619	317,093	409,783	629,952	574,137	542,095	524,054
Gross profit	(Btmn)	52,629	22,191	12,198	59,170	54,002	39,408	58,477	57,791
SG&A	(Btmn)	14,854	16,469	14,881	21,727	38,973	34,977	34,226	33,144
Other income	(Btmn)	2,694	2,319	2,283	1,771	3,946	3,251	3,097	3,333
Interest expense	(Btmn)	3,593	3,119	3,511	5,945	9,835	11,932	9,748	9,598
Pre-tax profit	(Btmn)	36,876	4,922	(3,912)	33,269	9,139	(4,250)	17,601	18,383
Corporate tax	(Btmn)	2,986	649	(109)	7,228	(2,273)	275	2,985	3,117
Equity a/c profits	(Btmn)	6,895	4,559	3,323	6,841	3,496	(1,398)	(1,608)	(1,689)
Minority interests	(Btmn)	(201)	(667)	(452)	(568)	(1,116)	444	452	461
Core profit	(Btmn)	40,583	8,164	(932)	32,313	13,792	(5,480)	13,461	14,038
Extra-ordinary items	(Btmn)	(514)	3,518	1,132	12,669	(22,544)	5,870	0	0
Net Profit	(Btmn)	40,069	11,682	200	44,982	(8,752)	390	13,461	14,038
EBITDA	(Btmn)	59,524	27,239	19,891	61,952	46,537	36,425	56,202	56,878
Core EPS	(Btmn)	9.00	1.81	(0.21)	7.17	3.06	(1.22)	2.99	3.11
Net EPS	(Bt)	8.89	2.59	0.04	9.98	(1.94)	0.09	2.99	3.11
DPS	(Bt)	4.25	2.00	1.00	3.75	1.00	0.50	1.50	1.60

Balance Sheet									
FY December 31	Unit	2018	2019	2020	2021	2022	2023F	2024F	2025F
Total current assets	(Btmn)	144,310	104,494	129,911	209,092	172,009	158,780	160,333	177,283
Total fixed assets	(Btmn)	324,945	348,020	359,472	538,389	547,957	543,640	533,552	522,575
Total assets	(Btmn)	469,255	452,514	489,383	747,481	719,965	702,420	693,885	699,858
Total loans	(Btmn)	95,655	106,778	148,002	209,163	277,345	270,708	266,572	262,436
Total current liabilities	(Btmn)	73,858	53,033	59,041	147,003	103,976	90,379	77,030	80,506
Total long-term liabilities	(Btmn)	91,915	105,886	141,347	272,875	317,161	297,158	293,021	288,885
Total liabilities	(Btmn)	165,773	158,919	200,389	419,878	421,138	387,537	370,052	369,391
Paid-up capital	(Btmn)	45,088	45,088	45,088	45,088	45,088	45,088	45,088	45,088
Total equity	(Btmn)	303,482	293,595	288,994	327,603	298,828	314,883	323,834	330,467
BVPS	(Bt)	65.66	63.39	62.33	70.58	64.61	68.27	70.35	71.92

Cash Flow Statement									
FY December 31	Unit	2018	2019	2020	2021	2022	2023F	2024F	2025F
Core Profit	(Btmn)	40,583	8,164	(932)	32,313	13,792	(5,480)	13,461	14,038
Depreciation and amortization	(Btmn)	19,055	19,198	20,292	22,738	27,563	28,743	28,853	28,897
Operating cash flow	(Btmn)	53,554	30,337	21,953	70,108	(3,297)	12,373	40,520	45,165
Investing cash flow	(Btmn)	(32,842)	(41,780)	(28,274)	(148,843)	(12,213)	(21,426)	(18,765)	(17,920)
Financing cash flow	(Btmn)	(27,397)	(6,461)	31,794	90,036	(14,164)	(10,687)	(8,647)	(11,541)
Net cash flow	(Btmn)	(6,685)	(17,904)	25,473	11,300	(29,674)	(19,740)	13,108	15,704

FY December 31	Unit	2018	2019	2020	2021	2022	2023F	2024F	2025F
Gross margin	(%)	10.1	5.4	3.7	12.6	7.9	6.4	9.7	9.9
Operating margin	(%)	7.3	1.4	(0.8)	8.0	2.2	0.7	4.0	4.2
EBITDA margin	(%)	11.5	6.6	6.0	13.2	6.8	5.9	9.4	9.8
EBIT margin	(%)	7.8	1.9	(0.1)	8.4	2.8	1.3	4.6	4.8
Net profit margin	(%)	7.7	2.8	0.1	9.6	(1.3)	0.1	2.2	2.4
ROE	(%)	13.9	2.7	(0.3)	10.5	4.4	(1.8)	4.2	4.3
ROA	(%)	9.0	1.8	(0.2)	5.2	1.9	(0.8)	1.9	2.0
Net D/E	(X)	0.1	0.3	0.3	0.4	0.8	0.8	0.8	0.7
Interest coverage	(X)	16.6	8.7	5.7	10.4	4.7	3.1	5.8	5.9
Debt service coverage	(X)	3.7	2.1	0.8	1.3	2.0	1.9	3.3	3.4
Payout Ratio	(%)	47.8	77.2	2,258.9	37.6	n.m.	577.6	50.2	51.4

Main Assumptions FY December 31	Unit	2018	2019	2020	2021	2022	2023F	2024F	2025F
Utilization rate - Olefins	(%)	101	102	97	91	80	82	85	85
Utilization rate - Aromatics	(%)	93	88	96	99	88	88	88	88
Utilization rate - Oil Refinery	(%)	102	87	97	95	89	100	100	100
HDPE-naphtha spread	(US\$/t)	716	468	500	536	418	400	420	445
PX-condensate spread	(US\$/t)	451	351	228	259	275	360	340	340
Market GRM	(US\$/bbl)	6.1	3.9	2.2	3.8	12.1	7.5	8.3	9.7



Financial statement

Profit and Loss Stateme	ent								
FY December 31	Unit	4Q21	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23
Total revenue	(Btmn)	140,461	176,767	197,603	183,141	126,442	148,147	147,949	161,678
Cost of goods sold	(Btmn)	128,033	156,957	171,442	179,713	121,840	138,948	142,652	145,548
Gross profit	(Btmn)	12,428	19,810	26,161	3,428	4,603	9,199	5,297	16,130
SG&A	(Btmn)	8,357	9,652	9,139	9,328	10,854	8,471	8,482	8,645
Other income	(Btmn)	433	811	818	591	1,725	680	1,321	1,516
Interest expense	(Btmn)	1,528	2,101	2,428	2,741	2,566	2,786	2,885	2,999
Pre-tax profit	(Btmn)	2,975	8,869	15,412	(8,050)	(7,091)	(1,379)	(4,750)	6,002
Corporate tax	(Btmn)	190	38	(255)	(28)	(2,028)	(43)	(271)	467
Equity a/c profits	(Btmn)	1,471	1,142	1,549	250	555	(244)	(408)	(263)
Minority interests	(Btmn)	(61)	(470)	(438)	(200)	(9)	23	16	30
Core profit	(Btmn)	4,195	9,504	16,778	(7,973)	(4,517)	(1,557)	(4,871)	5,302
Extra-ordinary items	(Btmn)	(947)	(6,908)	(15,400)	(5,431)	5,195	1,640	(720)	(3,875)
Net Profit	(Btmn)	3,248	2,596	1,378	(13,404)	678	82	(5,591)	1,427
EBITDA	(Btmn)	10,358	17,806	24,544	1,717	2,470	8,373	5,168	16,201
Core EPS	(Btmn)	0.93	2.11	3.72	(1.77)	(1.00)	(0.35)	(1.08)	1.18
Net EPS	(Bt)	0.72	0.58	0.31	(2.97)	0.15	0.02	(1.24)	0.32

Balance Sheet Unit 2Q22 1Q23 FY December 31 4Q21 1Q22 3Q22 4Q22 2Q23 3Q23 Total current assets (Btmn) 209,092 238,676 252,436 198,814 172,009 168,995 167,095 195,704 Total fixed assets (Btmn) 538,389 542,661 540,220 543,650 547,957 544,374 542,457 537,201 Total assets 781,338 713,369 709,552 (Btmn) 747,481 792,656 742,464 719,965 732,906 Total loans (Btmn) 209,163 282,834 304,490 277,163 277,345 270,999 266,646 267,637 Total current liabilities 105,487 (Btmn) 147,003 165,246 165,556 123,985 103,976 102,370 128,436 Total long-term liabilities (Btmn) 272,875 289,939 310,247 316,374 317,161 312,472 310,802 311,394 Total liabilities 419,878 (Btmn) 455,184 475,803 440,358 421,138 414,842 416,288 439,830 Paid-up capital (Btmn) 45,088 45,088 45,088 45,088 45,088 45,088 45,088 45,088 302,106 Total equity (Btmn) 327,603 326,153 316,853 298,828 298,528 293,263 293,075 BVPS (Bt) 70.58 70.16 68.21 64.91 64.61 64.53 63.39 63.37

Cash Flow Statement									
FY December 31	Unit	4Q21	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23
Core Profit	(Btmn)	4,195	9,504	16,778	(7,973)	(4,517)	(1,557)	(4,871)	5,302
Depreciation and amortization	(Btmn)	5,854	6,837	6,704	7,027	6,995	6,965	7,032	7,200
Operating cash flow	(Btmn)	29,159	5,176	(3,262)	(547)	(4,664)	18,397	10,807	10,724
Investing cash flow	(Btmn)	(114,731)	(17,588)	(9,925)	28,046	(12,745)	(4,417)	(116)	(4,427)
Financing cash flow	(Btmn)	86,161	15,337	4,205	(42,332)	8,626	(9,284)	(12,993)	5,398
Net cash flow	(Btmn)	589	2,925	(8,982)	(14,834)	(8,783)	4,695	(2,302)	11,695

FY December 31	Unit	4Q21	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23
Gross margin	(%)	8.8	11.2	13.2	1.9	3.6	6.2	3.6	10.0
Operating margin	(%)	2.9	5.7	8.6	(3.2)	(4.9)	0.5	(2.2)	4.6
EBITDA margin	(%)	7.4	10.1	12.4	0.9	2.0	5.7	3.5	10.0
EBIT margin	(%)	3.2	6.2	9.0	(2.9)	(3.6)	1.0	(1.3)	5.6
Net profit margin	(%)	2.3	1.5	0.7	(7.3)	0.5	0.1	(3.8)	0.9
ROE	(%)	5.2	11.6	20.9	(10.3)	(6.0)	(2.1)	(6.6)	7.2
ROA	(%)	2.5	5.0	8.5	(4.2)	(2.5)	(0.9)	(2.7)	2.9
Net D/E	(X)	0.5	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Interest coverage	(X)	6.8	8.5	10.1	0.6	1.0	3.0	1.8	5.4
Debt service coverage	(X)	0.9	1.3	1.8	0.3	0.4	1.5	1.0	3.0

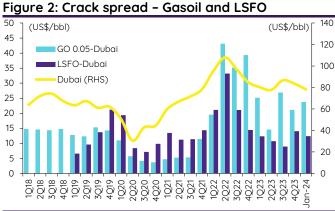
Key Statistics									
FY December 31	Unit	4Q21	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23
Utilization rate - Olefins	(%)	80	85	75	83	76	72	81	90
Utilization rate - Aromatics	(%)	97	100	80	88	82	89	90	70
Utilization rate - Oil Refinery	(%)	101	101	98	100	56	103	103	105
HDPE-naphtha spread	(US\$/t)	507	453	468	390	360	396	435	384
PX-condensate spread	(US\$/t)	211	248	354	276	249	355	396	357
Market GRM	(US\$/bbl)	6.4	7.6	21.1	9.8	9.7	10.3	5.7	12.6



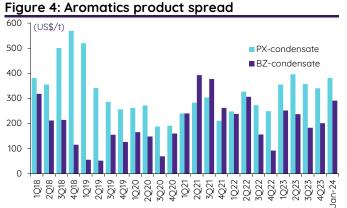
Figure 1: PTTGC - 4Q23F earnings preview

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	4Q22	3Q23	4Q23F	%YoY	%QoQ
Sales and Service Incomes	126,442	160,392	151,432	19.8	(5.6)
EBITDA	110	14,709	5,320	4,728.9	(63.8)
Operating profit	(1,899)	1,614	(1,716)	n.a.	n.a.
Net profit	678	1,427	4,472	559.7	213.5
EPS (Bt/share)	0.15	0.32	0.99	559.7	213.5
CDU utilization rate	56%	105%	103%	47.0	(2.0)
Market GRM	9.7	12.6	7.6	(21.6)	(39.7)
Utilization rate - PE	95%	109%	104%	8.6	(5.5)
HDPE-naphtha spread (US\$/t)	360	384	364	1.1	(5.2)
Utilization rate - BTX	82%	70%	85%	3.0	15.0
P2F margin - aromatics (US\$/t)	96	160	172	79.2	7.5
Source: PTTGC and InnovestX Research					

Appendix

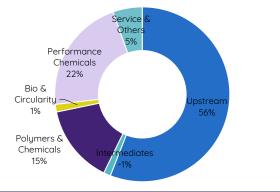


Source: PTTGC and InnovestX Research



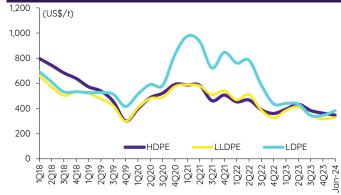
Source: PTTGC and InnovestX Research





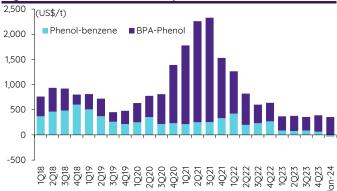
Source: PTTGC and InnovestX Research

Figure 3: PE product spread



Source: PTTGC and InnovestX Research

Figure 5: Phenol and BPA spread



Source: PTTGC and InnovestX Research

Figure 7: Quarterly adjusted EBITDA

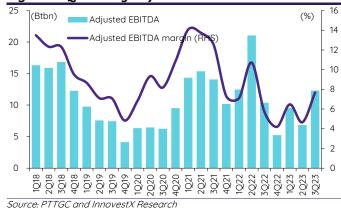




Figure 8: Olefins intake breakdown

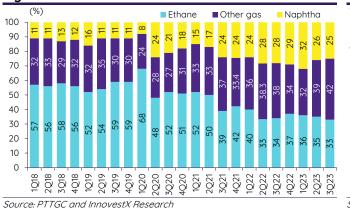
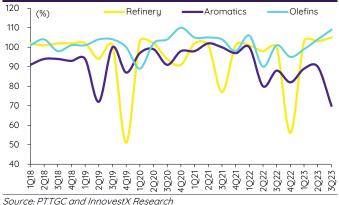


Figure 9: Utilization rate



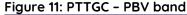




Figure 10: PTTGC - quarterly profit

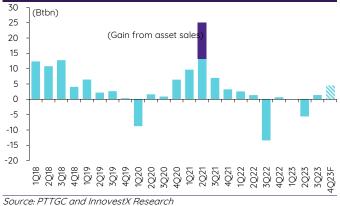


Figure 12: Valuation summary (price as of Jan 29, 2024)

_			• •			,									
	Rating	Price	Target	ETR	P/E (x)	EPS g	rowth	(%)	P/BV (x)	ROE (%)	Div.	Yield (%)	EV/E	BITDA	(X)
		(Bt/Sh)	(Bt/Sh)	(%)	22A 23F 24F	22A	23F	24F	22A 23F 24F	22A 23F 24F	22A	23F 24	F 22A	23F	24F
GGC	Underperform	8.90	10.5	18.0	9.1 n.m. 15.6	30	n.m.	n.m.	0.9 1.0 0.9	10 (3) 6	5.6	0.0 3.	3 4.2	18.1	5.0
IVL	Neutral	24.40	35.0	44.7	3.5 50.9 10.7	44	(93)	377	0.7 0.7 0.7	22 1 7	6.6	1.2 2.	9 4.3	7.2	5.1
PTTGC	Neutral	34.25	50.0	47.4	11.2 n.m. 11.5	(57)	n.m.	n.m.	0.5 0.5 0.5	4 (2) 4	2.9	1.5 4.	4 8.6	11.4	7.1
Average					7.9 50.9 12.6	6	(93)	377	0.7 0.7 0.7	12 (1) 6	5.0	0.9 3.	5 5.7	12.2	5.7

Source: InnovestX Research



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Companies with Good CG Scoring

24CS, AMANAH, AMARC, AMC, APP, ASAP, BCT, BE8, BIG, BIOTEC, BLESS, BSM, BVG, CAZ, CCET, CHARAN, CHAYO, CHOTI, CITY, CMAN, CMR, CRANE, CWT, DHOUSE, DTCENT, EASON, FNS, FTE, GIFT, GJS, GTB, GTV, GYT, HL, HTECH, HYDRO, IIG, INGRS, INSURE, IRCP, ITD, ITNS, JCK, JMT, JR, JSP, KBS, KGEN, KJL, L&E, LEE, MASTER, MBAX, MEB, MENA, META, MGT, MITSIB, MJD, MOSHI, MUD, NATION, NNCL, NPK, NSL, NV, OGC, PAF, PCC, PEACE, PICO, PK, PL, PLANET, PLE, PMTA, PPM, PRAKIT, PRAPAT, PRECHA, PRIN, PSG, RABBIT, READY, RJH, RSP, RWI, S11, SAAM, SAF, SAMCO, SAWAD, SCAP, SCP, SIAM, SKE, SKY, SMART, SMD, SMIT, SOLAR, SPA, STECH, STPI, SVR, TC, TCCC³, TEAM, TFI, TIGER, TITLE, TKC, TMI, TNH, TPA, TPAC, TRITN, UBA, UMI, UMS, UTP, VARO, VPO, W, WARRIX, WORK, WPH, YONG, ZIGA

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¹OISHI was voluntarily delisted from the Stock Exchange of Thailand, effectively on September 6, 2023

²SFP was voluntarily delisted from the Stock Exchange of Thailand, effectively on July 19, 2023

³TCCC was voluntarily delisted from the Stock Exchange of Thailand effectively on August 25, 2023

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Declared (ประกาศเจตนารมณ์)

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N/A

24CS, 3K-BAT, A, A5, AAV, ABM, ACAP, ACC, ACG, ADD, AEONTS, AFC, AGE, AHC, AIT, AJA, AKR, AKS, ALL, ALLA, ALPHAX, ALUCON, AMARC, AMARIN, AMR, ANAN, ANI, AOT, APCO, APEX, APP, APURE, AQUA, ARIN, ARIP, ARROW, ASAP, ASEFA, ASIA, ASIMAR, ASN, ATP30, AU, T, AURA, B52, BA, BBIK, BC, BCT, BDMS, BEAUTY, BEM, BGT, BH, BIG, BIOTEC, BIS, BIZ, BJC, BJCHI, BKD, BLC, BLESS, BLISS, BM, BOL, BR, BRI, BROCK, BSM, BSRC, BTNC, BTW, BUI, BVG, CCET, CCP, CEYE, CGD, CH, CHARAN, CHASE, CHAYO, CHG, CHIC, CHO, CI, CITY, CIVIL, CK, CKP, CMAN, CMO, CMR, CNT, COCOCO, COLOR, COMAN, CPANEL, CPH, CPR, CPT, CRANE, CRD, CSP, CSS, CTW, CWT, D, DCON, DDD, DHOUSE, DITTO, DOD, DPAINT, DTCENT, DTCI, DV8, EASON, ECL, EE, EFORL, EMC, ETL, EVER, F&D, FANCY, FE, FLOYD, FMT, FN, FORTH, FTI, FVC, GABLE, GENCO, GFC, GIFT, GL, GLAND, GLOCON, GLORY, GRAMMY, GRAND, GSC, GTB, GTV, GYT, HEALTH, HFT, HL, HPT, HTECH, HUMAN, HYDRO, I2, IFEC, IIG, IMH, IND, INGRS, INSET, IP, IRC, IRCP, IT, ITD, ITNS, ITTHI, JAK, JCK, JCKH, JCT, JDF, JPARK, JSP, JUBILE, K, KAMART, KC, KCG, KCM, KDH, KEX, KIAT, KISS, KJL, KK, KKC, KLINIQ, KOOL, KTIS, KTMS, KUMWEL, KUN, KWC, KWM, KYE, LALIN, LDC, LEE, LIT, LOXLEY, LPH, LST, MANRIN, MASTER, MATI, MCA, M-CHAI, MCS, MDX, MEB, MEGA, METCO, MGC, MIGA, MJD, MK, ML, MORE, MOSHI, MTW, MUD, MVP, NAM, NC, NCL, NCR, NET, NEWS, NFC, NNCL, NOK, NOVA, NPK, NSL, NTSC, NTV, NUSA, NV, NVD, NYT, OHTL, ONEE, ORN, PACE, PACO, PAF, PCC, PEARC, PERM, PF, PHG, PICO, PIN, PJW, PLE, PLT, PMTA, POLAR, POMPUI, PORT, POST, PPM, PRAAT, PRECHA, PRI, PRIN, PRO, PROUD, PSG, PSP, PTC, PTL, RAM, RCL, READY, RICHY, RJH, ROCK, ROCTEC, ROH, ROJNA, RP, RPC, RPH, RSP, S, S11, SABUY, SAF, SAFARI, SAFE, SALEE, SAM, SAMART, SAMCO, SAMTEL, SAV, SAWAD, SAWANG, SBNEXT, SCAP, SCGD, SCI, SCL, SCP, SDC, SE, SEAFCO, SECURE, SFT, SGF, SHANG, SHR, SIAM, SICT, SIMAT, SINGER, SINO, SISB, SJWO, SK, SKN, SKY, SLM, SLY, SWAG, SBNEXT, SCAP, SCGD, SCI, SCL, SCP, SDC, SE, SEAFCO, SECURE, ST, SGF, SHANG, SHR, SIAM, SICT, SIMAT, SINGER, SINO, SISB, SJWO, SK, SKN, SKY, SLM, SLY, SWAG, SBNEXT, S

Explanations

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