PTT Global Chemical

PTTGC

PTT Global Chemical
Public Company Limited

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2Q23 likely to remain challenging

Pessimism on PTTGC's earnings has sent the share down 24% YTD vs. the SET's -9% and SETPETRO's -19%. It reported a thin 1Q23 profit of Bt82mn, sinking 97% YoY and 87% QoQ despite a sharp 82% QoQ rise in adjusted EBITDA. 2Q23F will be challenging as two drivers in 1Q23, oil refinery and aromatics, have already slipped QoQ. Further, performance of olefins and polymer businesses remains below historical average due to insufficient gas supply from PTT and the performance chemical segment is pressured by the global economic slowdown. We slash our 2023F by 52% to reflect the disappointing results and cut TP (end-2023) to Bt52/share, based on 0.8x PBV (2023F), largely priced in. Neutral.

1Q23 results recap. PTTGC's 1Q23 profit was worse than expected at only Bt82mn, down 97% YoY and 87% QoQ. Although earnings for the upstream segment, oil refinery and aromatics, was up strongly QoQ on higher market GRM and aromatics product spread, overall performance was dragged by olefins, intermediate (phenol and MEG), and performance chemicals (Vencorex). Contribution from the JV was in the red due to lower product spread at associates, mainly Thai Asahi. Adjusted EBITDA grew 82% QoQ to Bt9.5bn but fell 24% YoY. Adjusted EBITDA margin improved from 4% in 4Q22 to 6% in 1Q23 but is way below 5-year average of 10%.

2Q23F remains challenging. We expect 2Q23 earnings to remain subdued as key earnings drivers in 1Q23 (oil refinery and aromatics) have weakened QTD and other businesses remain feeble. A potential driver could be olefins and polymers due to more gas supply from PTT, but this is uncertain. It expects the proportion of ethane feedstock in 2Q23 to be close to 1Q23's level of 36% before rising to 37-40% in 3Q23 on a rise in production at Block G1/61 (Erawan) to 400mmcfd from 200mmcfd± from June. We expect this to drive earnings in 2H23, implying a slower earnings recovery this year than previously thought. There may be some offset provided by the startup of the olefins modification project (OMP) in 2Q23 that will enable it to up propane feedstock to 40% from 29%, giving more flexibility in feedstock selection.

Earnings forecast and TP cut. The earnings turnaround in 2023, led by no huge inventory loss and other extra items, will be slower than expected. The weaker 1Q23 profit looks to continue through 2Q23, and we cut our 2023F net profit by 52% to Bt9.9bn. Downside risk is gas supply in 2H23 and global economic outlook. We also cut TP to Bt52 from Bt56, based on 0.8x PBV (2023F), equivalent to 9.7x EV/EBITDA.

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 government policy in allocating domestic gas supply to petrochemical business.

Forecasts and valuation

| Year to 31 Dec | Unit | 2021 | 2022 | 2023F | 2024F | 2025F |
|---|-----------|---------|---------|---------|---------|---------|
| Revenue | (Btmn) | 468,953 | 683,954 | 608,765 | 579,615 | 561,153 |
| EBITDA | (Btmn) | 61,952 | 46,537 | 50,261 | 61,870 | 66,605 |
| Core profit | (Btmn) | 32,313 | 13,792 | 8,292 | 20,176 | 24,280 |
| Reported profit | (Btmn) | 44,982 | (8,752) | 9,932 | 20,176 | 24,280 |
| Core EPS | (Bt) | 7.17 | 3.06 | 1.84 | 4.47 | 5.38 |
| DPS | (Bt) | 3.75 | 1.00 | 1.10 | 2.20 | 2.70 |
| P/E, core | (x) | 5.0 | 11.7 | 19.4 | 8.0 | 6.6 |
| EPS growth, core | (%) | n.a. | (57.3) | (39.9) | 143.3 | 20.3 |
| P/BV, core | (x) | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 |
| ROE | (%) | 10.5 | 4.4 | 2.7 | 6.5 | 7.4 |
| Dividend yield | (%) | 10.5 | 2.8 | 3.1 | 6.2 | 7.6 |
| FCF yield | (x) | (48.8) | (9.6) | (2.9) | 16.5 | 21.3 |
| EV/EBIT | (x) | 7.5 | 21.4 | 19.3 | 11.9 | 9.8 |
| EBIT growth, core | (%) | n.a. | (51.6) | 13.4 | 53.5 | 14.2 |
| EV/CE | (x) | 0.8 | 1.1 | 1.1 | 1.1 | 1.1 |
| ROCE | (%) | 8.0 | 5.0 | 4.0 | 6.8 | 8.1 |
| EV/EBITDA | (x) | 4.8 | 8.7 | 8.3 | 6.4 | 5.5 |
| EBITDA growth Source: InnovestX Resear | (%) ch | 211.5 | (24.9) | 8.0 | 23.1 | 7.7 |

Tactical: NEUTRAL

(3-month) Stock data

| Last close (May 19) (Bt) | 35.75 |
|----------------------------|-------------|
| Target price (Bt) | 52.00 |
| Mkt cap (Btbn) | 161.19 |
| Mkt cap (US\$mn) | 4,704 |
| Beta | Н |
| Mkt cap (%) SET | 0.87 |
| Sector % SET | 2.23 |
| Shares issued (mn) | 4,509 |
| Par value (Bt) | 10.00 |
| 12-m high / low (Bt) | 52.5 / 35.3 |
| Avg. daily 6m (US\$mn) | 20.13 |
| Foreign limit / actual (%) | 37 / 11 |
| Free float (%) | 54.8 |
| | |

| 2022 Sustainability/2021 | ESG Score |
|-----------------------------|-----------|
| Sustainability Index (THSI) | Included |
| | |

 ≥ 30

| ESG Bloomberg Score | 78.71 |
|---------------------|-------|
| Environmental Score | 88.55 |
| Social Score | 57.68 |
| Governance Score | 89.86 |

Source: Bloomberg Finance L.P.

Dividend policy (%)

| Share performance | | | | | |
|-------------------|--------|--------|--------|--|--|
| (%) | 1M | 3M | 12M | | |
| Absolute | (12.8) | (27.0) | (23.1) | | |
| Relative to SET | (9.9) | (20.2) | (17.6) | | |

Source: SET, InnovestX Research

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 also 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

Earnings in 2023F are expected to turn around from net loss of Bt8.8bn in 2022, which arose out of its planned shutdown of most of its olefin crackers and oil refinery throughout last year and weak petrochemical product spread. Lower losses from extra items, mainly from oil price hedging and inventory, will underlie the YoY increase in profit. Oil refinery and aromatics businesses are key drivers for 1H23 and olefins and polymer businesses will take the driver's seat in 2H23 given higher ethane feedstock from PTT after gas production at G1/61 (Erawan) is ramped up from Jun 2023. More contribution from the specialty chemical business is expected, mainly from allnex. 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. | 1. Lower ethane supply from PTT on lower gas production in the Gulf of Thailand, mainly Block G1/61 (Erawan), will continue to drag EBITDA margin of its olefins business. More risk has emerged from the new government's intention to alter the gas supply allocation to the petrochemical industry. |
| Feedstock flexibility will increase after the olefins retrofit project (ORP) started up in 2Q21 and the olefins 2 modification project (OMP) commences operations in 2Q23. | Investors are concerned about the 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. | 3. The company's plan to invest in an olefins cracker in the US continues to undermine investor appetite for the stock as gas cost in the US may be less competitive on the US administration's policy to reduce fracking activities. |

Key catalysts

| Factor | Event | Impact | Comment |
|-------------------------------|--|-----------------------------|---|
| Higher ethane feedstock | More ethane supply from PTT is expected from 3Q23 onwards. | Positive | We expect adjusted EBITDA for the olefins business to improve in 3Q23 on a higher ethane proportion of 37-40% in 2H23 from 36% in 1Q23. |
| Near-term earnings outlook | 2Q23F earnings momentum | Lower YoY but higher QoQ | Lower inventory loss will be the key earnings driver QoQ but weaker GRM is expected to affect adjusted EBITDA margin for oil refining. The market remains pessimistic on the global economic outlook. |

Sensitivity Analysis

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



ESG Disclosure Score

| Bloomberg ESG Score | 79.24 (2021) |
|---------------------|--------------|
| Rank in Sector | 2/15 |

| | CG Rating 0-5 | DJSI | SETTHSI | THSI |
|-------|---------------|------|---------|------|
| PTTGC | 5 | Yes | Yes | Yes |

Source: Thai Institute of Directors and SET

Environmental Issue (E)

- PTTGC targets to reduce greenhouse gas (scope 1 and 2) by 20% within 2030 and to achieve net zero emissions and cooperate with suppliers and customers to halve scope 3 emissions within 2050.
- It is one of the first organizations in Thailand to implement a Circular Economy by raising public awareness of waste management.
- PTTGC continues to invest in renewable energy 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.

Social Issue (S)

- PTTGC set up social enterprises with the goal of generating sustainable income for local communities, leveraging strategy via a Circular Economy, mainly the management of waste for delivery as feedstock to its recycled plastic resin factory under the Community Waste Model project in order to promote end-to-end waste management.
- PTTGC employed customer recommendations to enhance the efficiency of its customer relationship management. It continuously maintains customer satisfaction at 93%, higher than the industry average.
- PTTGC continued to emphasize improving employee capability while maintaining work-life balance and safety and occupational health with competitive compensation. Employee turnover rate was 5.65% in 2022, slightly up from 3.83% in 2021 and Lost Time Injury Frequency Rate and Total recordable incident rate was 0 and 0.4 case/1 million man-hours, respectively.

Governance Issue (G)

- PTTGC's board of directors 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

| | 2020 | 2021 |
|--|-----------|-----------|
| ESG Disclosure Score | 80.81 | 79.24 |
| Environment | 89.10 | 88.55 |
| Emissions Reduction Initiatives | Yes | Yes |
| Climate Change Policy | Yes | Yes |
| GHG Scope 1 | 5,880.00 | 6,737.60 |
| Biodiversity Policy | Yes | Yes |
| Energy Efficiency Policy | Yes | Yes |
| Total Energy Consumption | 41,518.40 | 43,233.80 |
| Social | 63.42 | 57.68 |
| Human Rights Policy | Yes | Yes |
| Equal Opportunity Policy | Yes | Yes |
| Health and Safety Policy | Yes | Yes |
| Fatalities - Employees | 0.00 | 0.00 |
| Total Recordable Incident Rate - Employees | 0.04 | 0.08 |
| Employee Turnover Pct | 6.33 | 3.83 |

| 89.86 | 89.86 |
|-------|----------|
| 15 | 15 |
| 15 | 16 |
| 96 | 99 |
| 7 | 7 |
| 8 | 8 |
| 3 | 3 |
| | 15 15 |

Source: Bloomberg Finance L.P.

Disclaime

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 such as energy consumption, board composition, and workforce accidents.

Company ESG reporting has evolved since our ESG Disclosure Score was originally created in 2010. In order to reflect the evolution in corporate reporting, in early 2022 Bloomberg updated its ESG disclosure scores methodology. The methodology changes were implemented for all years of data for all companies in the ESG Coverage universe.

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.

Mon, May 22, 2023



Financial statement

| 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 | 608,765 | 579,615 | 561,153 |
| Cost of goods sold | (Btmn) | 466,026 | 390,619 | 317,093 | 409,783 | 629,952 | 555,796 | 516,811 | 495,016 |
| Gross profit | (Btmn) | 52,629 | 22,191 | 12,198 | 59,170 | 54,002 | 52,969 | 62,804 | 66,137 |
| SG&A | (Btmn) | 14,854 | 16,469 | 14,881 | 21,727 | 38,973 | 34,702 | 33,021 | 31,955 |
| Other income | (Btmn) | 2,694 | 2,319 | 2,283 | 1,771 | 3,946 | 3,251 | 3,239 | 3,539 |
| 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 | 9,586 | 23,274 | 28,123 |
| Corporate tax | (Btmn) | 2,986 | 649 | (109) | 7,228 | (2,273) | 1,904 | 3,947 | 4,769 |
| Equity a/c profits | (Btmn) | 6,895 | 4,559 | 3,323 | 6,841 | 3,496 | 1,748 | 2,010 | 2,111 |
| Minority interests | (Btmn) | (201) | (667) | (452) | (568) | (1,116) | (1,139) | (1,161) | (1,185) |
| Core profit | (Btmn) | 40,583 | 8,164 | (932) | 32,313 | 13,792 | 8,292 | 20,176 | 24,280 |
| Extra-ordinary items | (Btmn) | (514) | 3,518 | 1,132 | 12,669 | (22,544) | 1,640 | 0 | 0 |
| Net Profit | (Btmn) | 40,069 | 11,682 | 200 | 44,982 | (8,752) | 9,932 | 20,176 | 24,280 |
| EBITDA | (Btmn) | 59,524 | 27,239 | 19,891 | 61,952 | 46,537 | 50,261 | 61,870 | 66,605 |
| Core EPS | (Btmn) | 9.00 | 1.81 | (0.21) | 7.17 | 3.06 | 1.84 | 4.47 | 5.38 |
| Net EPS | (Bt) | 8.89 | 2.59 | 0.04 | 9.98 | (1.94) | 2.20 | 4.47 | 5.38 |
| DPS | (Bt) | 4.25 | 2.00 | 1.00 | 3.75 | 1.00 | 1.10 | 2.20 | 2.70 |

Balance Sheet

| Dalance 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 | 165,121 | 168,525 | 190,338 |
| Total fixed assets | (Btmn) | 324,945 | 348,020 | 359,472 | 538,389 | 547,957 | 546,157 | 538,756 | 530,630 |
| Total assets | (Btmn) | 469,255 | 452,514 | 489,383 | 747,481 | 719,965 | 711,277 | 707,281 | 720,967 |
| 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 | 89,195 | 74,941 | 78,121 |
| 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 | 386,353 | 367,963 | 367,006 |
| 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 | 305,209 | 319,603 | 334,246 |
| BVPS | (Bt) | 65.66 | 63.39 | 62.33 | 70.58 | 64.61 | 65.77 | 68.70 | 71.69 |

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 | 8,292 | 20,176 | 24,280 |
| Depreciation and amortization | (Btmn) | 19,055 | 19,198 | 20,292 | 22,738 | 27,563 | 28,743 | 28,849 | 28,885 |
| Operating cash flow | (Btmn) | 53,554 | 30,337 | 21,953 | 70,108 | (3,297) | 22,273 | 48,017 | 55,155 |
| Investing cash flow | (Btmn) | (32,842) | (41,780) | (28,274) | (148,843) | (12,213) | (26,943) | (21,448) | (20,759) |
| Financing cash flow | (Btmn) | (27,397) | (6,461) | 31,794 | 90,036 | (14,164) | (10,187) | (9,918) | (13,773) |
| Net cash flow | (Btmn) | (6,685) | (17,904) | 25,473 | 11,300 | (29,674) | (14,857) | 16,650 | 20,624 |

Key Financial Ratios

| FY December 31 | Unit | 2018 | 2019 | 2020 | 2021 | 2022 | 2023F | 2024F | 2025F |
|-----------------------|------|------|------|---------|------|--------|-------|-------|-------|
| Gross margin | (%) | 10.1 | 5.4 | 3.7 | 12.6 | 7.9 | 8.7 | 10.8 | 11.8 |
| Operating margin | (%) | 7.3 | 1.4 | (0.8) | 8.0 | 2.2 | 3.0 | 5.1 | 6.1 |
| EBITDA margin | (%) | 11.5 | 6.6 | 6.0 | 13.2 | 6.8 | 8.3 | 10.7 | 11.9 |
| EBIT margin | (%) | 7.8 | 1.9 | (0.1) | 8.4 | 2.8 | 3.5 | 5.7 | 6.7 |
| Net profit margin | (%) | 7.7 | 2.8 | 0.1 | 9.6 | (1.3) | 1.6 | 3.5 | 4.3 |
| ROE | (%) | 13.9 | 2.7 | (0.3) | 10.5 | 4.4 | 2.7 | 6.5 | 7.4 |
| ROA | (%) | 9.0 | 1.8 | (0.2) | 5.2 | 1.9 | 1.2 | 2.8 | 3.4 |
| Net D/E | (x) | 0.1 | 0.3 | 0.3 | 0.4 | 0.8 | 0.8 | 0.7 | 0.6 |
| Interest coverage | (x) | 16.6 | 8.7 | 5.7 | 10.4 | 4.7 | 4.2 | 6.3 | 6.9 |
| Debt service coverage | (x) | 3.7 | 2.1 | 0.8 | 1.3 | 2.0 | 2.6 | 3.6 | 3.9 |
| Payout Ratio | (%) | 47.8 | 77.2 | 2,258.9 | 37.6 | (51.5) | 49.9 | 49.2 | 50.1 |

| Main | Assumptions |
|------|-------------|
| Main | ASSUMBLIONS |

| i idiii Assoriiptions | | | | | | | | | |
|---------------------------------|------------|------|------|------|------|------|-------|-------|-------|
| FY December 31 | Unit | 2018 | 2019 | 2020 | 2021 | 2022 | 2023F | 2024F | 2025F |
| Utilization rate - Olefins | (%) | 101 | 102 | 97 | 91 | 80 | 95 | 95 | 95 |
| 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 | 425 | 450 | 475 |
| PX-condensate spread | (US\$/t) | 451 | 351 | 228 | 259 | 275 | 280 | 280 | 280 |
| Market GRM | (US\$/bbl) | 6.1 | 3.9 | 2.2 | 3.8 | 12.1 | 7.5 | 8.3 | 9.7 |



Financial statement

| Profit and Lo | ss Statement |
|---------------|--------------|
|---------------|--------------|

| FY December 31 | Unit | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | 1Q23 |
|----------------------|--------|---------|---------|---------|---------|----------|----------|---------|---------|
| Total revenue | (Btmn) | 112,627 | 113,189 | 140,461 | 176,767 | 197,603 | 183,141 | 126,442 | 148,147 |
| Cost of goods sold | (Btmn) | 96,409 | 97,421 | 128,033 | 156,957 | 171,252 | 179,474 | 122,269 | 138,948 |
| Gross profit | (Btmn) | 16,218 | 15,768 | 12,428 | 19,810 | 26,351 | 3,667 | 4,173 | 9,199 |
| SG&A | (Btmn) | 4,417 | 4,998 | 8,357 | 9,652 | 9,388 | 9,621 | 10,312 | 8,471 |
| Other income | (Btmn) | 363 | 567 | 433 | 811 | 818 | 591 | 1,725 | 680 |
| Interest expense | (Btmn) | 1,530 | 1,704 | 1,528 | 2,101 | 2,428 | 2,741 | 2,566 | 2,786 |
| Pre-tax profit | (Btmn) | 10,634 | 9,634 | 2,975 | 8,869 | 15,353 | (8,103) | (6,979) | (1,379) |
| Corporate tax | (Btmn) | 5,591 | 727 | 190 | 38 | (324) | (101) | (1,886) | (43) |
| Equity a/c profits | (Btmn) | 2,324 | 1,154 | 1,471 | 1,142 | 1,549 | 250 | 555 | (244) |
| Minority interests | (Btmn) | (141) | (233) | (61) | (470) | (438) | (200) | (9) | 23 |
| Core profit | (Btmn) | 7,226 | 9,828 | 4,195 | 9,504 | 16,788 | (7,953) | (4,547) | (1,557) |
| Extra-ordinary items | (Btmn) | 17,809 | (2,822) | (947) | (6,908) | (15,400) | (5,431) | 5,195 | 1,640 |
| Net Profit | (Btmn) | 25,035 | 7,005 | 3,248 | 2,596 | 1,388 | (13,384) | 648 | 82 |
| EBITDA | (Btmn) | 17,753 | 17,175 | 10,358 | 17,806 | 24,563 | 1,714 | 2,454 | 8,373 |
| Core EPS | (Btmn) | 1.60 | 2.18 | 0.93 | 2.11 | 3.72 | (1.76) | (1.01) | (0.35) |
| Net EPS | (Bt) | 5.55 | 1.55 | 0.72 | 0.58 | 0.31 | (2.97) | 0.14 | 0.02 |

Balance Sheet

| Daiance once | | | | | | | | | |
|-----------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| FY December 31 | Unit | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | 1Q23 |
| Total current assets | (Btmn) | 222,986 | 221,154 | 209,092 | 238,676 | 252,436 | 198,814 | 172,009 | 168,995 |
| Total fixed assets | (Btmn) | 358,129 | 359,309 | 538,389 | 542,661 | 540,220 | 543,650 | 547,957 | 544,374 |
| Total assets | (Btmn) | 581,115 | 580,464 | 747,481 | 781,338 | 792,656 | 742,464 | 719,965 | 713,369 |
| Total loans | (Btmn) | 192,493 | 177,427 | 209,163 | 282,834 | 304,490 | 277,163 | 277,345 | 270,999 |
| Total current liabilities | (Btmn) | 73,277 | 101,041 | 147,003 | 165,246 | 165,556 | 123,985 | 103,976 | 102,370 |
| Total long-term liabilities | (Btmn) | 187,626 | 157,983 | 272,875 | 289,939 | 310,247 | 316,374 | 317,161 | 312,472 |
| Total liabilities | (Btmn) | 260,902 | 259,024 | 419,878 | 455,184 | 475,803 | 440,358 | 421,138 | 414,842 |
| Paid-up capital | (Btmn) | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 |
| Total equity | (Btmn) | 320,212 | 321,439 | 327,603 | 326,153 | 316,853 | 302,106 | 298,828 | 298,528 |
| BVPS | (Bt) | 69.23 | 69.48 | 70.58 | 70.16 | 68.21 | 64.91 | 64.61 | 64.53 |

Cash Flow Statement

| FY December 31 | Unit | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | 1Q23 |
|-------------------------------|--------|---------|----------|-----------|----------|---------|----------|----------|---------|
| Core Profit | (Btmn) | 7,226 | 9,828 | 4,195 | 9,504 | 16,788 | (7,953) | (4,547) | (1,557) |
| Depreciation and amortization | (Btmn) | 5,589 | 5,837 | 5,854 | 6,837 | 6,782 | 7,076 | 6,867 | 6,965 |
| Operating cash flow | (Btmn) | 10,377 | 21,922 | 29,159 | 5,176 | (3,262) | (547) | (4,664) | 18,397 |
| Investing cash flow | (Btmn) | (4,291) | 11,934 | (114,731) | (17,588) | (9,925) | 28,046 | (12,745) | (4,417) |
| Financing cash flow | (Btmn) | (4,705) | (29,262) | 86,161 | 15,337 | 4,205 | (42,332) | 8,626 | (9,284) |
| Net cash flow | (Btmn) | 1,381 | 4,595 | 589 | 2,925 | (8,982) | (14,834) | (8,783) | 4,695 |

Key Financial Ratios

| FY December 31 | Unit | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | 1Q23 |
|-----------------------|------|------|------|------|------|------|--------|-------|-------|
| Gross margin | (%) | 14.4 | 13.9 | 8.8 | 11.2 | 13.3 | 2.0 | 3.3 | 6.2 |
| Operating margin | (%) | 10.5 | 9.5 | 2.9 | 5.7 | 8.6 | (3.3) | (4.9) | 0.5 |
| EBITDA margin | (%) | 15.8 | 15.2 | 7.4 | 10.1 | 12.4 | 0.9 | 1.9 | 5.7 |
| EBIT margin | (%) | 10.8 | 10.0 | 3.2 | 6.2 | 9.0 | (2.9) | (3.5) | 1.0 |
| Net profit margin | (%) | 22.2 | 6.2 | 2.3 | 1.5 | 0.7 | (7.3) | 0.5 | 0.1 |
| ROE | (%) | 9.3 | 12.3 | 5.2 | 11.6 | 20.9 | (10.3) | (6.1) | (2.1) |
| ROA | (%) | 5.1 | 6.8 | 2.5 | 5.0 | 8.5 | (4.1) | (2.5) | (0.9) |
| Net D/E | (x) | 0.4 | 0.4 | 0.5 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| Interest coverage | (x) | 11.6 | 10.1 | 6.8 | 8.5 | 10.1 | 0.6 | 1.0 | 3.0 |
| Debt service coverage | (x) | 2.3 | 1.5 | 0.9 | 1.3 | 1.8 | 0.3 | 0.4 | 1.5 |

Key Statistics

| FY December 31 | Unit | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | 1Q23 |
|---------------------------------|------------|------|------|------|------|------|------|------|------|
| Utilization rate - Olefins | (%) | 93 | 91 | 80 | 85 | 75 | 83 | 76 | 72 |
| Utilization rate - Aromatics | (%) | 102 | 100 | 97 | 100 | 80 | 88 | 82 | 89 |
| Utilization rate - Oil Refinery | (%) | 101 | 77 | 101 | 101 | 98 | 100 | 56 | 103 |
| HDPE-naphtha spread | (US\$/t) | 585 | 462 | 507 | 453 | 468 | 390 | 360 | 396 |
| PX-condensate spread | (US\$/t) | 283 | 304 | 211 | 248 | 354 | 276 | 249 | 381 |
| Market GRM | (US\$/bbl) | 2.0 | 3.2 | 6.4 | 7.6 | 21.1 | 9.8 | 9.7 | 10.3 |



1Q23 result highlights:

- Sales revenue fell 16% YoY but improved 17% QoQ after as the oil refinery was operated fully in 1Q23, following 49-day planned oil refinery maintenance shutdown in 4Q22. This was also behind higher utilization rate of oil refinery from 56% (4Q22) to 103% (1Q23). Revenue from allnex increased QoQ after its low season in 4Q in Europe and the US.
- Overall adjusted EBITDA fell 24% YoY but rose 82% QoQ, led by upstream, polymers and bio & circularity segment, with adjusted EBITDA improved from 4% in 4Q22 to 6% in 1Q23. This was driven mainly by higher market GRM and wider product spread of aromatics business. Nonetheless, adjusted EBITDA of olefins business continued to weaken (-127% YoY and -85% QoQ) due to high feedstock cost and lower proportion of ethane feedstock from 40% in 1Q22 and 37% in 4Q22 to 36% in 1Q23, vs. 5-year average of nearly 50%.
- Although operating performance of allnex continued to improve in 1Q23 with EBITDA of Bt1.9bn from low season in 4Q22, Adjusted EBITDA of performance chemicals weakened 31% YoY and 26% QoQ. This was due to loss contribution from HDI business in Europe under Vencorex. The competition in HDI business in Europe was more intense due to slower demand in automotive industry and new supply from Asia, hurting profit of Vencorex in 1Q23 with EBITDA loss of >Bt200mn. Mitigation plan for Vencorex is to enhance its cost and seek more collaboration with allnex to increase competitiveness. For allnex, management expects more improvement in 2Q23 with sales volume to increase 3-5% QoQ with stable margin while more overhead cost cutting will be continued.
- Management revealed that the recent business restructuring could save its cost by approximately Bt200mn/year. More overhead cost cutting will be continued amidst weak market condition in petrochemical business.
- More ethane feedstock from PTT is expected for 3Q23 onwards given the expected more gas supply from the Gulf of Thailand (Erawan). This will increase the proportion of ethane feedstock in olefins production from 32% in 1Q23 to 37-40% in 2H23.

Figure 1: PTTGC - 1Q23 earnings review

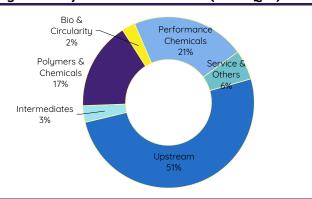
| | 1Q22 | 4Q22 | 1Q23 | %YoY | %QoQ |
|---------------------------|---------|---------|---------|--------|--------|
| P&L (Bt, mn) | | | | • | |
| Total revenue | 176,767 | 126,442 | 148,147 | (16.2) | 17.2 |
| Gross profit | 19,810 | 4,173 | 9,199 | (53.6) | 120.4 |
| EBITDA | 17,806 | 2,454 | 8,373 | (53.0) | 241.2 |
| Profit before extra items | 9,504 | (4,547) | (1,557) | n.a. | n.a. |
| Net Profit | 2,596 | 648 | 82 | (96.8) | (87.3) |
| EPS (Bt) | 0.58 | 0.14 | 0.02 | (96.8) | (87.3) |
| B/S (Bt, mn) | | | | | |
| Total assets | 781,338 | 719,965 | 713,369 | (8.7) | (0.9) |
| Total liabilities | 455,184 | 421,138 | 414,842 | (8.9) | (1.5) |
| Total equity | 326,153 | 298,828 | 298,528 | (8.5) | (0.1) |
| BVPS (Bt) | 70.16 | 64.61 | 64.53 | (8.0) | (0.1) |
| Financial ratio (%) | | | | | |
| Gross margin (%) | 11.2 | 3.3 | 6.2 | (5.0) | 2.9 |
| EBITDA margin (%) | 10.1 | 1.9 | 5.7 | (4.4) | 3.7 |
| Net profit margin (%) | 1.5 | 0.5 | 0.1 | (1.4) | (0.5) |
| ROA (%) | 5.0 | (2.5) | (0.9) | (5.8) | 1.6 |
| ROE (%) | 11.6 | (6.1) | (2.1) | (13.7) | 4.0 |
| D/E (X) | 1.4 | 1.4 | 1.4 | (0.6) | (2.0) |

Source: PTTGC and InnovestX Research



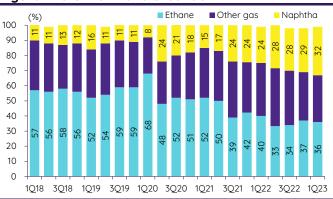
Appendix

Figure 2: Adj. EBITDA breakdown (LTM-1Q23)



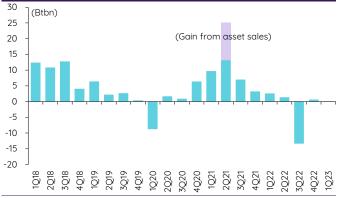
Source: PTTGC and InnovestX Research

Figure 4: Olefins intake breakdown



Source: PTTGC and InnovestX Research

Figure 6: PTTGC - quarterly profit



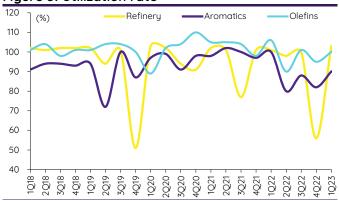
Source: PTTGC and InnovestX Research

Figure 3: Quarterly adjusted EBITDA



Source: PTTGC and InnovestX Research

Figure 5: Utilization rate



Source: PTTGC and InnovestX Research

Figure 7: PTTGC - PBV band



Source: InnovestX Research

Figure 8: Valuation summary (price as of May 19, 2023)

| | Rating | Price Target ETR | | P/E (x) | | EPS growth (%) | | P/BV (x) | | ROE (%) | | Div. Yield (%) | | EV/EBITDA (x) | | | | | | | | |
|--------|------------|------------------|----------|---------|------|----------------|------|----------|------|---------|-----|----------------|-----|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | (Bt/Sh |)(Bt/Sh) | (%) | 22A | 23F | 24F | 22A | 23F | 24F | 22A | 23F | 24F | 22A | 23F | 24F | 22A | 23F | 24F | 22A | 23F | 24F |
| GGC | Neutral | 12.70 | 13.4 | 8.7 | 13.0 | 15.9 | 12.1 | 30 | (18) | 31 | 1.3 | 1.2 | 1.1 | 10 | 8 | 9 | 3.9 | 3.2 | 3.3 | 6.4 | 6.1 | 4.4 |
| IVL | Outperform | 32.25 | 54.0 | 71.5 | 4.7 | 8.7 | 6.4 | 44 | (46) | 36 | 1.0 | 0.9 | 0.8 | 22 | 11 | 13 | 5.0 | 4.0 | 5.0 | 4.8 | 5.5 | 4.2 |
| PTTGC | Neutral | 35.75 | 52.0 | 48.5 | 11.7 | 19.4 | 8.0 | (57) | (40) | 143 | 0.6 | 0.5 | 0.5 | 4 | 3 | 6 | 2.8 | 3.1 | 6.2 | 8.7 | 8.3 | 6.4 |
| Averag | е | | | | 9.8 | 14.7 | 8.9 | 6 | (35) | 70 | 0.9 | 0.9 | 0.8 | 12 | 7 | 10 | 3.9 | 3.4 | 4.8 | 6.7 | 6.6 | 5.0 |

Source: InnovestX Research



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To recognize well performers, the list of companies attaining "Good", "Very Good" and "Excellent" levels of recognition (Not including listed companies qualified in the "no announcement of the results" clause from 1 January 2021 to 27 October 2022) is publicized.

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Declared (ประกาศเจตนารมณ์)

AAI, AH, ASW, BBGI, CBG, CI, CPW, CV, DMT, DOHOME, EKH, EVER, FLOYD, GLOBAL, GREEN, ICN, ITC, J, JAS, JMART, JMT, JTS, LEO, LH, MEGA, MENA, MODERN, NER, OR, OSP, OTO, PRIME, PRTR, RBF, RT, SA, SANKO, SFLEX, SIS, SUPER, SVOA, SVT, TEGH, TGE, TIPH, TKN, TMI, TPLAS, VARO, W, WIN, WPH

N/A

24CS, 3K-BAT, A, A5, AAV, ABM, ACAP, ACC, ACE, ACG, ADB, ADD, AEONTS, AFC, AGE, AHC, AIT, AJA, AKR, AKS, ALL, ALLA, ALPHAX, ALT, ALUCON, AMARC, AMARIN, AMC, AMR, ANAN, AOT, APCO, APEX, APP, APURE, AQUA, ARIN, ARIP, ARROW, ASAP, ASEFA, ASIA, ASIMAR, ASN, ATP30, AU, AUCT, AURA, B52, BA, BBIK, BC, BCT, BDMS, BEAUTY, BEM, BGT, BH, BIG, BIOTEC, BIS, BIZ, BJC, BJCHI, BKD, BLAND, BLESS, BLISS, BM, BOL, BR, BRI, BROCK, BSM, BTG, BTNC, BTW, BUI, BVG, BYD, CAZ, CCET, CCP, CEYE, CGD, CH, CHARAN, CHASE, CHAYO, CHG, CHIC, CHO, CITY, CIVIL, CK, CKP, CMAN, CMO, CMR, CNT, COLOR, COMAN, CPANEL, CPH, CPR, CPT, CRANE, CRD, CSP, CSR, CSS, CTW, CWT, D, DCON, DDD, DEXON, DHOUSE, DITTO, DOD, DPAINT, DTCENT, DTCI, DV8, EASON, EE, EFORL, EMC, ESSO, F&D, FANCY, FE, FMT, FN, FORTH, FTI, FVC, GABLE, GENCO, GIFT, GL, GLAND, GLOCON, GLORY, GRAMMY, GRAND, GSC, GTB, GTV, GYT, HFT, HL, HPT, HTECH, HUMAN, HYDRO, IFEC, IHL, IIG, IMH, IND, INGRS, INSET, IP, IRCP, IT, ITD, ITNS, ITTHI, JAK, JCK, JCKH, JCT, JDF, JSP, JUBILE, KAMART, KC, KCC, KCM, KDH, KEX, KGEN, KIAT, KISS, KJL, KK, KKC, KLINIQ, KOOL, KTIS, KTMS, KUMWEL, KUN, KWC, KWM, KYE, LALIN, LDC, LEE, LIT, LOXLEY, LPH, LST, MACO, MANRIN, MASTER, MATI, MAX, M-CHAI, MCS, MDX, MEB, METCO, MGC, MGT, MICRO, MIDA, MITSIB, MJD, MK, ML, MORE, MOSHI, MPIC, MTW, MUD, MVP, NATION, NC, NCH, NCL, NDR, NETBAY, NEW, NEWS, NEX, NFC, NNCL, NOVA, NPK, NSL, NTSC, NTV, NUSA, NV, NVD, NYT, OHTL, OISHI, ONEE, PACE, PACE, PACO, PAF, PCC, PEACE, PERM, PF, PICO, PIN, PJW, PLE, PLT, PLUS, PMTA, POLAR, POLY, POMPUI, PORT, POST, PPM, PQS, PRAKIT, PRAPAT, PRECHA, PRI, PRIN, PRO, PROEN, PROUD, PSG, PTC, PTL, RAM, RCL, READY, RICHY, RJH, ROCK, ROH, ROJNA, RP. RPC, RPH, RSP, S, S11, SABUY, SAF, SAFARI, SALEE, SAM, SAMART, SAMCO, SAMTEL, SAWAD, SAWANG, SBNEXT, SCAP, SCI, SCP, SDC, SE, SEAFCO, SECURE, SENX, SFP, SFT, SGC, SGF, SHANG, SHR, SIAM, SICT, SIMAT, SISB, SJWD, SK, SKE, SKN, SKY, SLM, SLP, SM, SMART, SMD, SMT, SNNP, SO, SOLAR, SONIC, SPA, SPCG, SPG, SPVI, SQ, SR, SSC, SSS, STANLY, STARK, STC, STEC, STECH, STHAI, STP,

Explanations

Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of April 17, 2023) are categorised into: companies that have declared their intention to join CAC, and companies certified by CAC.