PTT Global Chemical

PTT Global Chemical Public Company Limited

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Reuters



Challenges continuing

Although we expect PTTGC's huge loss in 3Q22 to be this year's bottom, earnings outlook remains challenging as fears of a global recession weaken demand. Management says PTTGC is well prepared to withstand the uncertain economic outlook with strong financial position and liquidity. It continues to improve production efficiency to maintain competitiveness while keeping on the path to decarbonization (net zero emissions by 2050). The near-term challenge will deter investment in chemical stocks for the next three months despite undemanding valuation. Neutral with TP of Bt56, on 0.8x PBV (2023F).

3Q22 earnings recap. PTTGC's net loss in 3Q22 of Bt13.4bn was worse than expected with a lower adjusted EBITDA (-51% QoQ) in all segments and Bt14.2bn in extra losses: stock loss and NRV, hedging loss, FX loss and extra provisions relating to an incident at a subsidiary. The upstream segment (refinery, aromatics, olefins & utilities) did poorest; polymer did best though adjusted EBITDA fell 16% QoQ.

4Q22F remains challenging. Management admits earnings are vulnerable to a global economic slowdown and other uncontrollable factors, including China's COVID lockdowns that cause supply chain disruption and sluggish demand for petrochemical products, and geopolitical risk in Europe pushing up feedstock cost. It says it has risk mitigation plans, including cuts in operating expenses (10-15% reduction) and capital expenditure (Bt5bn savings) and an efficiency enhancement project (Bt4bn benefit in 2022). PTTGC has prepared financial liquidity to withstand uncertainty in financial markets at a manageable financing cost to ensure continuity of operations while reducing exposure to floating interest rate.

Increasing high value products portion to continue. Management reaffirms its target to increase the portion of HVP to 56% by 2030 from 36% in 2022. The current weak product spread of commodity grade products in the polymer segment, which hurt earnings in 9M22, especially in 3Q22, has led PTTGC to accelerate this growth strategy. Performance chemicals segment will be driven by allnex, who has a leading position in the global market. More synergy and collaboration between PTTGC and allnex will drive contribution to 35% of total EBITDA by 2030 from 22% in 9M22. The EBITDA margin hiccup in 3Q22 at allnex was caused by supply disruption in the automotive industry (~20% of allnex sales), expected to improve in 2023.

Cutting earnings forecast for 2022F but maintain TP. The disappointing 9M22 was mainly due to non-recurring items and we cut our 2022F to a loss of Bt5.6bn from a net loss of Bt2.9bn to reflect the higher losses from inventory, derivatives and FX in 3Q22. Earnings are expected to improve in 4Q22F without the huge inventory loss and other extra items. Despite the 2022F cut, the impact on TP of Bt56 is minimal. This is based on 0.8x PBV (2023F), equivalent to -1SD of 10-year average of 1.1x to reflect its earnings risk. Poor sentiment on its outlook from lower gas supply and high naphtha cost will continue until gas supply for the Gulf of Thailand looks better and demand for petrochemical products recovers. The key factor to be monitored is the relaxation of China's COVID lockdowns.

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 and 4) regulatory change on GHG emissions and single-use plastics (<3% of capacity).

Forecasts and valuation

| Year to 31 Dec | Unit | 2020 | 2021 | 2022F | 2023F | 2024F |
|-------------------|--------|---------|---------|---------|---------|---------|
| Revenue | (Btmn) | 329,291 | 468,953 | 741,036 | 699,990 | 650,731 |
| EBITDA | (Btmn) | 19,891 | 61,952 | 59,424 | 63,655 | 66,049 |
| Core profit | (Btmn) | (932) | 32,313 | 23,040 | 21,957 | 26,241 |
| Reported profit | (Btmn) | 200 | 44,982 | (5,567) | 21,957 | 26,241 |
| Core EPS | (Bt) | (0.21) | 7.17 | 5.11 | 4.87 | 5.82 |
| DPS | (Bt) | 1.00 | 3.75 | 1.00 | 2.40 | 2.90 |
| P/E, core | (X) | n.a. | 6.6 | 9.3 | 9.8 | 8.2 |
| EPS growth, core | (%) | n.a. | n.a. | (28.7) | (4.7) | 19.5 |
| P/BV, core | (X) | 0.8 | 0.7 | 0.7 | 0.7 | 0.6 |
| ROE | (%) | (0.3) | 10.5 | 7.2 | 6.9 | 7.9 |
| Dividend yield | (%) | 2.1 | 7.9 | 2.1 | 5.1 | 6.1 |
| FCF yield | (X) | (3.0) | (36.8) | (20.0) | 5.9 | 18.7 |
| EV/EBIT | (X) | (752.1) | 8.9 | 15.9 | 14.9 | 12.8 |
| EBIT growth, core | (%) | n.a. | n.a. | (26.5) | 5.0 | 8.8 |
| EV/CĒ | (X) | 0.9 | 1.0 | 1.3 | 1.3 | 1.3 |
| ROCE | (%) | (0.8) | 8.3 | 7.8 | 7.4 | 8.4 |
| EV/EBITDA | (X) | 15.2 | 5.6 | 7.7 | 7.1 | 6.4 |
| EBITDA growth | (%) | (27.0) | 211.5 | (4.1) | 7.1 | 3.8 |

Source: InnovestX Research

Tactical: NEUTRAL

(3-month)

Stock data

| Last close (Nov 16) (Bt) | 47.50 |
|--------------------------|--------|
| Target price (Bt) | 56.00 |
| Mkt cap (Btbn) | 214.17 |
| Mkt cap (US\$mn) | 6,023 |
| | |

| Beta | Н |
|----------------------------|-------------|
| Mkt cap (%) SET | 1.09 |
| Sector % SET | 2.65 |
| Shares issued (mn) | 4,509 |
| Par value (Bt) | 10.00 |
| 12-m high / low (Bt) | 61.8 / 39.8 |
| Avg. daily 6m (US\$mn) | 16.10 |
| Foreign limit / actual (%) | 37 / 12 |
| Free float (%) | 54.8 |
| Dividend policy (%) | ≥ 30 |

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

| ESG Bloomberg Score | 78.71 |
|--------------------------------|-------|
| Environmental Score | 88.55 |
| Social Score | 57.68 |
| Governance Score | 89.86 |
| Source: Bloomberg Finance L.P. | |

| Share performance | | | | | | | | |
|-----------------------|-------------------------------------|-------|--------|--|--|--|--|--|
| (%) | 1M | 3M | 12M | | | | | |
| Absolute | 15.9 | (1.0) | (21.8) | | | | | |
| Relative to SET | 12.4 | 0.2 | (20.6) | | | | | |
| Company CET Incompany | Courses CET has a set V Poor a much | | | | | | | |

Source: SET, InnovestX Research

Note: * Performance Chemicals

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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

We expect PTTGC's 2023 earnings to improve from a net loss in 2022 when it was hit hard by a weaker profit margin and planned shutdown of most of its olefin crackers and oil refinery throughout the year (2022) as well as huge losses from inventory and hedging. Although outlook for petrochemical product price and spread remains uncertain due to heightening risk of a global economic recession, PTTGC's olefins operation is expected to be enhanced by higher gas supply from the Gulf of Thailand to its ethane crackers, hence better EBITDA margin. We also expect lower negative impact from inventory and hedging losses, assuming less volatile oil price. Expanding to more specialty and recycled products will also reduce earnings volatility compared to commodity grade products.

| Bearish views |
|--|
| 1. PTTGC'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 new US administration's policy to reduce fracking activities. |
| 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.

Key catalysts

| Factor | Event | Impact | Comment |
|-------------------------------|--|-----------------------------|--|
| Improving GRM | Demand recovery for refined oil product will support market GRM. | Positive | We expect demand for refined oil products, mainly middle distillates and low-sulfur fuel oil, to keep GRM strong in 2022F off a low base in 2021. |
| Near-term earnings outlook | 4Q22F earnings momentum | Better QoQ but lower YoY | We expect some improvement of earnings in 4Q22F with lower impact from inventory and hedging losses despite planned shutdown of its refinery for 50 days. Market pessimism on the global economic outlook, high inflation and China's lockdowns will continue to depress petrochemical product spread. |

Sensitivity Analysis

| Factor | Earnings impact | TP impact |
|-----------------------|-----------------|---------------|
| EBITDA margin (+0.1%) | +2.9% (2023F) | +Bt0.11/share |



| ESG Disclosure Score | | | | | | |
|--|---|---|---------------------------------------|--------|--|---|
| Bloomberg ESG Score | 78.41 (2021) | | CG Rating 0-5 | DJSI | SETTHSI | THSI |
| Rank in Sector | 2/15 | PTTGC | 5 | Yes | Yes | Yes |
| | | Source: The | ai Institute of Directors ar | nd SET | | |
| Environmental Issue (E) | | Social Is | ssue (S) | | | |
| 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. | | PTTGC set up social enterprises with the goal of generating sustainable income for local communit leveraging strategy via a Circular Economy, mainly the management of waste for delivery as feedstood to its recycled plastic resin factory. Community satisfaction rate was high at 91.25%. 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 employ: capability while maintaining work-life balance and safety and occupational health with competitive compensation. Employee turnover rate was 3.83% Lost Time Injury Frequency Rate was 0.05 and 0.41 case/1 million man-hours, respectively. | | | | |
| Governance Issue (G) | | ESG Dis | closure Score | | | |
| PTTGC's board of directors non-executive directors (92 independent directors, whic board (69.23% of the entire director. These include two | 2.31% of the entire board), 9 ch exceeds half of the board), and an executive | Environm Emissions | Reduction Initiatives hange Policy | | 202 80.8 89.1 Ye Ye 5,880.0 | 78.7 0 88.5 es Ye es Ye |

- 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.

| | 2020 | 2021 |
|--|-----------|-----------|
| ESG Disclosure Score | 80.81 | 78.71 |
| 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 |
| | | |
| Governance | 89.86 | 89.86 |
| Size of the Board | 15 | 15 |
| Number of Board Meetings for the Year | 15 | 16 |
| Board Meeting Attendance Pct | 96 | 99 |

| Size of the Board | 15 | 15 |
|---------------------------------------|----|----|
| Number of Board Meetings for the Year | 15 | 16 |
| Board Meeting Attendance Pct | 96 | 99 |
| Number of Female Executives | 7 | 7 |
| Number of Independent Directors | 8 | 8 |
| Board Duration (Years) | 3 | 3 |

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 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.



Financial statement

| Profit and Loss Stateme | ent | | | | | | | | |
|-------------------------|--------|---------|---------|---------|---------|---------|----------|---------|---------|
| FY December 31 | Unit | 2017 | 2018 | 2019 | 2020 | 2021 | 2022F | 2023F | 2024F |
| Total revenue | (Btmn) | 439,921 | 518,655 | 412,810 | 329,291 | 468,953 | 741,036 | 699,990 | 650,731 |
| Cost of goods sold | (Btmn) | 382,271 | 466,026 | 390,619 | 317,093 | 409,783 | 680,479 | 639,710 | 590,540 |
| Gross profit | (Btmn) | 57,650 | 52,629 | 22,191 | 12,198 | 59,170 | 60,557 | 60,280 | 60,190 |
| SG&A | (Btmn) | 14,197 | 14,854 | 16,469 | 14,881 | 21,727 | 34,225 | 32,316 | 30,027 |
| Other income | (Btmn) | 2,364 | 2,694 | 2,319 | 2,283 | 1,771 | 2,494 | 2,310 | 2,781 |
| Interest expense | (Btmn) | 3,935 | 3,593 | 3,119 | 3,511 | 5,945 | 10,180 | 10,304 | 8,964 |
| Pre-tax profit | (Btmn) | 41,882 | 36,876 | 4,922 | (3,912) | 33,269 | 18,646 | 19,970 | 23,981 |
| Corporate tax | (Btmn) | 3,863 | 2,986 | 649 | (109) | 7,228 | (996) | 1,997 | 2,398 |
| Equity a/c profits | (Btmn) | 5,572 | 6,895 | 4,559 | 3,323 | 6,841 | 3,977 | 4,574 | 5,260 |
| Minority interests | (Btmn) | (2,822) | (201) | (667) | (452) | (568) | (579) | (591) | (602) |
| Core profit | (Btmn) | 40,768 | 40,583 | 8,164 | (932) | 32,313 | 23,040 | 21,957 | 26,241 |
| Extra-ordinary items | (Btmn) | (1,470) | (514) | 3,518 | 1,132 | 12,669 | (28,608) | 0 | 0 |
| Net Profit | (Btmn) | 39,298 | 40,069 | 11,682 | 200 | 44,982 | (5,567) | 21,957 | 26,241 |
| EBITDA | (Btmn) | 65,267 | 59,524 | 27,239 | 19,891 | 61,952 | 59,424 | 63,655 | 66,049 |
| Core EPS | (Btmn) | 9.04 | 9.00 | 1.81 | (0.21) | 7.17 | 5.11 | 4.87 | 5.82 |
| Net EPS | (Bt) | 8.72 | 8.89 | 2.59 | 0.04 | 9.98 | (1.23) | 4.87 | 5.82 |
| DPS | (Bt) | 4.25 | 4.25 | 2.00 | 1.00 | 3.75 | 1.00 | 2.40 | 2.90 |

| Balance Sheet | | | | | | | | | |
|-----------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| FY December 31 | Unit | 2017 | 2018 | 2019 | 2020 | 2021 | 2022F | 2023F | 2024F |
| Total current assets | (Btmn) | 140,738 | 144,310 | 104,494 | 129,911 | 207,244 | 198,254 | 208,776 | 256,220 |
| Total fixed assets | (Btmn) | 294,226 | 324,945 | 348,020 | 359,472 | 546,871 | 540,763 | 528,537 | 514,231 |
| Total assets | (Btmn) | 434,964 | 469,255 | 452,514 | 489,383 | 754,115 | 739,018 | 737,313 | 770,451 |
| Total loans | (Btmn) | 96,022 | 95,655 | 106,778 | 148,002 | 209,163 | 300,660 | 295,496 | 326,833 |
| Total current liabilities | (Btmn) | 60,313 | 73,858 | 53,033 | 59,041 | 147,007 | 147,001 | 98,446 | 85,127 |
| Total long-term liabilities | (Btmn) | 94,387 | 91,915 | 105,886 | 141,347 | 279,506 | 281,350 | 312,687 | 344,023 |
| Total liabilities | (Btmn) | 154,700 | 165,773 | 158,919 | 200,389 | 426,512 | 428,351 | 411,133 | 429,150 |
| Paid-up capital | (Btmn) | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 |
| Total equity | (Btmn) | 280,264 | 303,482 | 293,595 | 288,994 | 327,603 | 310,667 | 326,180 | 341,300 |
| BVPS | (Bt) | 60.96 | 65.66 | 63.39 | 62.33 | 70.58 | 66.70 | 70.01 | 73.23 |

| Cash Flow Statement | | | | | | | | | |
|-------------------------------|------------------|----------|----------|----------|----------|-----------|----------|----------|----------|
| FY December 31 | Unit | 2017 | 2018 | 2019 | 2020 | 2021 | 2022F | 2023F | 2024F |
| Core Profit | (Btmn) | 40,768 | 40,583 | 8,164 | (932) | 32,313 | 23,040 | 21,957 | 26,241 |
| Depreciation and amortization | (Btmn) | 19,451 | 19,055 | 19,198 | 20,292 | 22,738 | 30,598 | 33,381 | 33,104 |
| Operating cash flow | (Btmn) | 61,765 | 53,554 | 30,337 | 21,953 | 70,108 | (18,368) | 33,730 | 58,766 |
| Investing cash flow | (Btmn) | (41,545) | (32,842) | (41,780) | (28,274) | (148,843) | (24,490) | (21,154) | (18,798) |
| Financing cash flow | (Btmn) | (9,511) | (27,397) | (6,461) | 31,794 | 90,036 | 24,528 | (11,607) | 20,216 |
| Net cash flow | cash flow (Btmn) | | (6,685) | (17,904) | 25,473 | 11,300 | (18,330) | 969 | 60,183 |

| Key Financial Ratios | | | | | | | | | |
|-----------------------|------|------|------|------|---------|------|-------|-------|-------|
| FY December 31 | Unit | 2017 | 2018 | 2019 | 2020 | 2021 | 2022F | 2023F | 2024F |
| Gross margin | (%) | 13.1 | 10.1 | 5.4 | 3.7 | 12.6 | 8.2 | 8.6 | 9.2 |
| Operating margin | (%) | 9.9 | 7.3 | 1.4 | (0.8) | 8.0 | 3.6 | 4.0 | 4.6 |
| EBITDA margin | (%) | 14.8 | 11.5 | 6.6 | 6.0 | 13.2 | 8.0 | 9.1 | 10.1 |
| EBIT margin | (%) | 10.4 | 7.8 | 1.9 | (0.1) | 8.4 | 3.9 | 4.3 | 5.1 |
| Net profit margin | (%) | 8.9 | 7.7 | 2.8 | 0.1 | 9.6 | (0.8) | 3.1 | 4.0 |
| ROE | (%) | 14.9 | 13.9 | 2.7 | (0.3) | 10.5 | 7.2 | 6.9 | 7.9 |
| ROA | (%) | 9.6 | 9.0 | 1.8 | (0.2) | 5.2 | 3.1 | 3.0 | 3.5 |
| Net D/E | (X) | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.8 | 0.7 | 0.6 |
| Interest coverage | (X) | 16.6 | 16.6 | 8.7 | 5.7 | 10.4 | 5.8 | 6.2 | 7.4 |
| Debt service coverage | (X) | 4.8 | 3.7 | 2.1 | 0.8 | 1.3 | 1.1 | 4.1 | 4.6 |
| Payout Ratio | (%) | 48.8 | 47.8 | 77.2 | 2,258.9 | 37.6 | n.a. | 49.3 | 49.8 |

| FY December 31 | Unit | 2017 | 2018 | 2019 | 2020 | 2021 | 2022F | 2023F | 2024F |
|---------------------------------|------------|-------|-------|-------|------|-------|-------|-------|-------|
| Utilization rate - Olefins | (%) | 96.0 | 101.0 | 102.0 | 97.0 | 91.0 | 80.0 | 95.0 | 95.0 |
| Utilization rate - Aromatics | (%) | 79.8 | 93.0 | 88.0 | 96.0 | 99.0 | 95.0 | 95.0 | 95.0 |
| Utilization rate - Oil Refinery | (%) | 102.6 | 101.7 | 86.9 | 97.3 | 100.0 | 100.0 | 100.0 | 100.0 |
| HDPE-naphtha spread | (US\$/t) | 672 | 716 | 468 | 500 | 536 | 425 | 420 | 450 |
| PX-condensate spread | (US\$/t) | 381 | 451 | 351 | 228 | 250 | 280 | 280 | 280 |
| Market GRM | (US\$/bbl) | 6.74 | 6.08 | 3.86 | 2.24 | 3.80 | 19.92 | 17.05 | 15.61 |



Financial statement

| Profit and Loss Stateme | ent | | | | | | | | |
|-------------------------|--------|--------|---------|---------|---------|---------|---------|----------|----------|
| FY December 31 | Unit | 4Q20 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 |
| Total revenue | (Btmn) | 88,362 | 102,676 | 112,627 | 113,189 | 140,461 | 176,767 | 197,603 | 183,141 |
| Cost of goods sold | (Btmn) | 78,889 | 87,920 | 96,409 | 97,421 | 128,033 | 155,316 | 171,252 | 179,474 |
| Gross profit | (Btmn) | 9,473 | 14,756 | 16,218 | 15,768 | 12,428 | 21,451 | 26,351 | 3,667 |
| SG&A | (Btmn) | 4,512 | 3,955 | 4,417 | 4,998 | 8,357 | 9,532 | 9,388 | 9,621 |
| Other income | (Btmn) | 939 | 408 | 363 | 567 | 433 | 811 | 818 | 591 |
| Interest expense | (Btmn) | 937 | 1,184 | 1,530 | 1,704 | 1,528 | 2,101 | 2,428 | 2,741 |
| Pre-tax profit | (Btmn) | 4,962 | 10,025 | 10,634 | 9,634 | 2,975 | 10,630 | 15,353 | (8,103) |
| Corporate tax | (Btmn) | 546 | 721 | 5,591 | 727 | 190 | 184 | (324) | (101) |
| Equity a/c profits | (Btmn) | 1,072 | 1,893 | 2,324 | 1,154 | 1,471 | 1,142 | 1,549 | 250 |
| Minority interests | (Btmn) | (316) | (132) | (141) | (233) | (61) | (470) | (438) | (200) |
| Core profit | (Btmn) | 5,173 | 11,065 | 7,226 | 9,828 | 4,195 | 11,120 | 16,788 | (7,953) |
| Extra-ordinary items | (Btmn) | 1,232 | (1,370) | 17,809 | (2,822) | (947) | (6,908) | (15,400) | (5,431) |
| Net Profit | (Btmn) | 6,405 | 9,695 | 25,035 | 7,005 | 3,248 | 4,212 | 1,388 | (13,384) |
| EBITDA | (Btmn) | 11,181 | 16,666 | 17,753 | 17,175 | 10,358 | 19,568 | 24,563 | 1,714 |
| Core EPS | (Btmn) | 1.15 | 2.45 | 1.60 | 2.18 | 0.93 | 2.47 | 3.72 | (1.76) |
| Net EPS | (Bt) | 1.42 | 2.15 | 5.55 | 1.55 | 0.72 | 0.93 | 0.31 | (2.97) |
| | | | | | | | | | |

| Balance Sheet | | | | | | | | | |
|-----------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| FY December 31 | Unit | 4Q20 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 |
| Total current assets | (Btmn) | 129,911 | 188,244 | 222,986 | 221,154 | 207,244 | 238,676 | 252,436 | 198,814 |
| Total fixed assets | (Btmn) | 359,472 | 364,448 | 358,129 | 359,309 | 546,871 | 542,661 | 540,220 | 543,650 |
| Total assets | (Btmn) | 489,383 | 552,692 | 581,115 | 580,464 | 754,115 | 781,338 | 792,656 | 742,464 |
| Total loans | (Btmn) | 148,002 | 190,008 | 192,493 | 177,427 | 209,163 | 282,834 | 304,490 | 277,163 |
| Total current liabilities | (Btmn) | 59,041 | 68,911 | 73,277 | 101,041 | 147,007 | 165,246 | 165,556 | 123,985 |
| Total long-term liabilities | (Btmn) | 141,347 | 184,017 | 187,626 | 157,983 | 279,506 | 289,939 | 310,247 | 316,374 |
| Total liabilities | (Btmn) | 200,389 | 252,928 | 260,902 | 259,024 | 426,512 | 455,184 | 475,803 | 440,358 |
| Paid-up capital | (Btmn) | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 | 45,088 |
| Total equity | (Btmn) | 288,994 | 299,764 | 320,212 | 321,439 | 327,603 | 326,153 | 316,853 | 302,106 |
| BVPS | (Bt) | 62.33 | 64.65 | 69.23 | 69.48 | 70.58 | 70.16 | 68.21 | 64.91 |

| Cash Flow Statement | | | | | | | | | |
|-------------------------------|--------|----------|----------|---------|----------|-----------|----------|---------|----------|
| FY December 31 | Unit | 4Q20 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 |
| Core Profit | (Btmn) | 5,173 | 11,065 | 7,226 | 9,828 | 4,195 | 11,120 | 16,788 | (7,953) |
| Depreciation and amortization | (Btmn) | 5,281 | 5,458 | 5,589 | 5,837 | 5,854 | 6,837 | 6,782 | 7,076 |
| Operating cash flow | (Btmn) | 8,941 | 8,649 | 10,377 | 21,922 | 29,159 | 5,176 | (3,262) | (547) |
| Investing cash flow | (Btmn) | (12,461) | (41,755) | (4,291) | 11,934 | (114,731) | (17,588) | (9,925) | 28,046 |
| Financing cash flow | (Btmn) | 19,160 | 37,842 | (4,705) | (29,262) | 86,161 | 15,337 | 4,205 | (42,332) |
| Net cash flow | (Btmn) | 15,640 | 4,736 | 1,381 | 4,595 | 589 | 2,925 | (8,982) | (14,834) |

| FY December 31 | Unit | 4Q20 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 |
|-----------------------|------|------|------|------|------|------|------|------|--------|
| Gross margin | (%) | 10.7 | 14.4 | 14.4 | 13.9 | 8.8 | 12.1 | 13.3 | 2.0 |
| Operating margin | (%) | 5.6 | 10.5 | 10.5 | 9.5 | 2.9 | 6.7 | 8.6 | (3.3) |
| EBITDA margin | (%) | 12.7 | 16.2 | 15.8 | 15.2 | 7.4 | 11.1 | 12.4 | 0.9 |
| EBIT margin | (%) | 6.7 | 10.9 | 10.8 | 10.0 | 3.2 | 7.2 | 9.0 | (2.9) |
| Net profit margin | (%) | 7.2 | 9.4 | 22.2 | 6.2 | 2.3 | 2.4 | 0.7 | (7.3) |
| ROE | (%) | 7.2 | 15.0 | 9.3 | 12.3 | 5.2 | 13.6 | 20.9 | (10.3) |
| ROA | (%) | 4.4 | 8.5 | 5.1 | 6.8 | 2.5 | 5.8 | 8.5 | (4.1) |
| Net D/E | (X) | 0.4 | 0.5 | 0.4 | 0.4 | 0.5 | 0.7 | 0.8 | 0.8 |
| Interest coverage | (X) | 11.9 | 14.1 | 11.6 | 10.1 | 6.8 | 9.3 | 10.1 | 0.6 |
| Debt service coverage | (x) | 1.7 | 2.4 | 2.3 | 1.5 | 0.9 | 1.5 | 1.8 | 0.3 |

| Key Statistics | | | | | | | | | |
|---------------------------------|------------|-------|-------|-------|-------|-------|-------|------|-------|
| FY December 31 | Unit | 4Q20 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 |
| Utilization rate - Olefins | (%) | 104.0 | 104.0 | 93.0 | 91.0 | 80.0 | 85.0 | 75.0 | 83.0 |
| Utilization rate - Aromatics | (%) | 98.0 | 98.0 | 102.0 | 100.0 | 97.0 | 100.0 | 80.0 | 88.0 |
| Utilization rate - Oil Refinery | (%) | 91.0 | 102.0 | 101.0 | 77.0 | 101.0 | 101.0 | 98.0 | 100.0 |
| HDPE-naphtha spread | (US\$/t) | 592 | 588 | 585 | 462 | 507 | 453 | 468 | 390 |
| PX-condensate spread | (US\$/t) | 191 | 240 | 283 | 304 | 211 | 248 | 354 | 279 |
| Market GRM | (US\$/bbl) | 1.8 | 3.2 | 2.0 | 3.2 | 6.4 | 7.6 | 21.1 | 9.8 |



3Q22 earnings recap. PTTGC's net loss in 3Q22 of Bt13.4bn was worse than expected given lower adjusted EBITDA (-51% QoQ) of all segments and several extra losses, i.e. stock loss and NRV, hedging loss, FX loss and extra provision relating to an incident of its subsidiary, of Bt14.2bn combined. Upstream segment (refinery, aromatics, olefins & utilities) was the worst performer as the adjusted EBITDA fell 69% QoQ and 42% YoY, mainly for oil refinery which booked a huge inventory loss (Bt8bn) and hedging loss (Bt2.1bn) as well as narrower product margin, though market GRM of US\$9.8/bbl remained higher than 5-year average.

Adjusted EBITDA of intermediates segment (EO Based, PTA, Phenol, GCO, PTTAC) also fell 57% QoQ and 87% YoY as adjusted EBITDA margin weakened from 6% in 2022 to 3% in 3Q22. This was due mainly to weaker BPA spread. Performance chemicals, mainly allnex, also generated lower adjusted EBITDA by 36% QoQ due to lower sales volume due to lower demand for final products and supply disruption in some industries. Polymer business was the best performer in 3Q22 although the adjusted EBITDA also fell 16% QoQ. The segment continued to be the key contributor to total adjusted EBITDA of polymer at 25% with the highest adj EBITDA margin of 10%, vs. overall adj EBITDA margin of 6%.

Figure 1: PTTGC - 3022 earnings review

| | 3Q21 | 2Q22 | 3Q22 | %YoY | %QoQ | 9M21 | 9M22 | %YoY |
|---------------------------|---------|---------|----------|--------|--------|---------|---------|--------|
| P&L (Bt, mn) | | | | | | | | |
| Total revenue | 113,189 | 197,603 | 183,141 | 61.8 | (7.3) | 328,492 | 557,511 | 69.7 |
| Gross profit | 15,768 | 26,351 | 3,667 | (76.7) | (86.1) | 46,742 | 51,470 | 10.1 |
| EBITDA | 17,175 | 24,563 | 1,714 | (90.0) | (93.0) | 51,594 | 45,844 | (11.1) |
| Profit before extra items | 9,828 | 16,788 | (7,953) | n.a. | n.a. | 28,118 | 19,955 | (29.0) |
| Net Profit | 7,005 | 1,388 | (13,384) | n.a. | n.a. | 41,735 | (7,784) | n.a. |
| EPS (Bt) | 1.55 | 0.31 | (2.97) | n.a. | n.a. | 9.26 | (1.73) | n.a. |
| B/S (Bt, mn) | | | | | | | | |
| Total assets | 580,464 | 792,656 | 742,464 | 27.9 | (6.3) | 580,464 | 742,464 | 27.9 |
| Total liabilities | 259,024 | 475,803 | 440,358 | 70.0 | (7.4) | 259,024 | 440,358 | 70.0 |
| Total equity | 321,439 | 316,853 | 302,106 | (6.0) | (4.7) | 321,439 | 302,106 | (6.0) |
| BVPS (Bt) | 69.48 | 68.21 | 64.91 | (6.6) | (4.8) | 69.48 | 64.91 | (6.6) |
| Financial ratio (%) | | | | | | | | |
| Gross margin (%) | 13.9 | 13.3 | 2.0 | (11.9) | (11.3) | 14.2 | 9.2 | (5.0) |
| EBITDA margin (%) | 15.2 | 12.4 | 0.9 | (14.2) | (11.5) | 15.7 | 8.2 | (7.5) |
| Net profit margin (%) | 6.2 | 0.7 | (7.3) | (13.5) | (8.0) | 12.7 | (1.4) | (14.1) |
| ROA (%) | 6.8 | 8.5 | (4.1) | (10.9) | (12.7) | 10.4 | (1.4) | (11.8) |
| ROE (%) | 12.3 | 20.9 | (10.3) | (22.5) | (31.2) | 18.2 | (3.3) | (21.5) |
| D/E (X) | 0.8 | 1.5 | 1.5 | 65.2 | (4.4) | 0.8 | 1.5 | 65.2 |

Source: PTTGC and InnovestX Research

Appendix

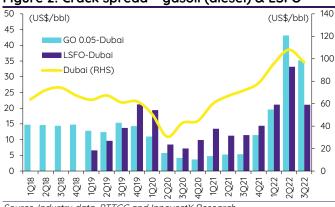
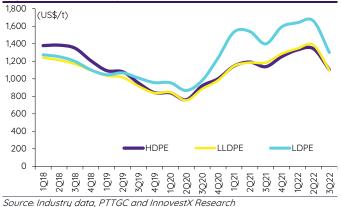


Figure 2: Crack spread - gasoil (diesel) & LSFO

Figure 3: Product price - PE



Source: Industry data, PTTGC and InnovestX Research



Figure 4: Product spread - aromatics

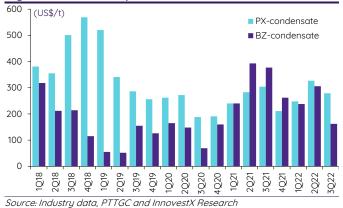
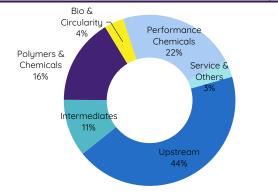


Figure 6: Adj. EBITDA breakdown (LTM-end 3Q22)



Source: PTTGC and InnovestX Research

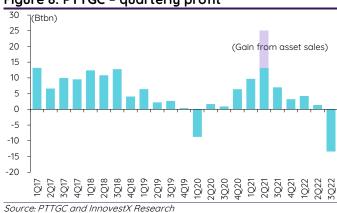


Figure 8: PTTGC - quarterly profit

Figure 5: Product spread - Phenol & BPA

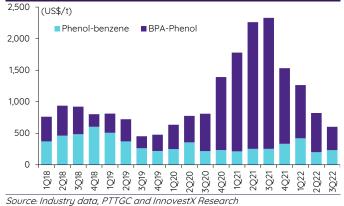


Figure 7: Adjusted EBITDA margin (olefins)

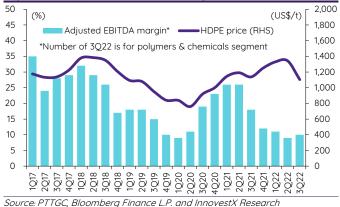
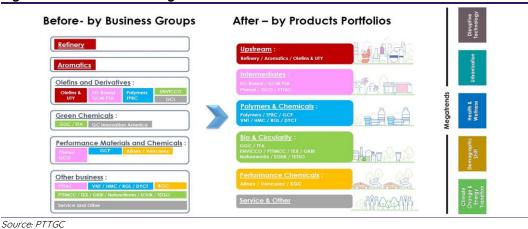
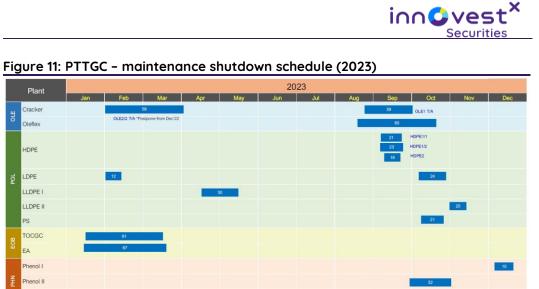


Figure 9: PTTGC - PBV band



Figure 10: PTTGC – new segmentation





Source: PTTGC

PO

Cracker

Oleflex HDPE

LDPE LLDPE I LLDPE II PS TOCGC EA Phenol I Phenol II BPA REF Refin

Figure 12: Valuation summary (price as of Nov 16, 2022)

| | Rating | Price | Target | ETR | P/E (x) EPS growth (%) | | P/BV (x) ROE (%) | | | | Div. Yield (%) | | | EV/EBITDA (x) | | | | | | | | |
|---------|------------|---------|---------|-------|------------------------|------|------------------|-------|------|------|----------------|-----|-----|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | (Bt/Sh) | (Bt/Sh) | (%) | 21A | 22F | 23F | 21A | 22F | 23F | 21A | 22F | 23F | 21A | 22F | 23F | 21A | 22F | 23F | 21A | 22F | 23F |
| GGC | Neutral | 14.90 | 13.4 | (6.1) | 19.9 | 12.5 | 16.1 | 39 | 59 | (22) | 1.5 | 1.4 | 1.4 | 8 | 12 | 9 | 2.3 | 4.0 | 3.1 | 9.3 | 6.8 | 7.3 |
| IVL | Outperform | 42.50 | 66.0 | 61.4 | 8.8 | 5.0 | 4.8 | 2,210 | 77 | 3 | 1.5 | 1.2 | 1.0 | 19 | 27 | 23 | 2.4 | 6.1 | 6.6 | 6.8 | 4.0 | 3.5 |
| PTTGC | Neutral | 47.50 | 56.0 | 20.0 | 6.6 | 9.3 | 9.8 | n.m. | (29) | (5) | 0.7 | 0.7 | 0.7 | 10 | 7 | 7 | 7.9 | 2.1 | 5.1 | 5.6 | 7.7 | 7.1 |
| Average | | | | | 11.8 | 8.9 | 10.2 | 1,125 | 36 | (8) | 1.2 | 1.1 | 1.0 | 12 | 15 | 13 | 4.2 | 4.1 | 4.9 | 7.2 | 6.2 | 6.0 |

Source: InnovestX Research



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Corporate Governance Report

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Anti-corruption Progress Indicator

Certified (ได้รับการรับรอง)

25, 7UP, ADVANC, AF, AI, AIE, AIRA, AJ, AKP, AMA, AMANAH, AMATA, AMATAV, AP, APCS, AS, ASIAN, ASK, ASP, AWC, AYUD, B, BAFS, BAM, BANPU, BAY, BBL, BCH, BCP, BCPG, BE8, BEC, BEYOND, BGC, BGRIM, BKI, BLA, BPP, BROOK, BRR, BSBM, BTS, BWG, CEN, CENTEL, CFRESH, CGH, CHEWA, CHOTI, CHOW, CIG, CIMBT, CM, CMC, COM7, COTTO, CPALL, CPF, CPI, CPL, CPN, CRC, CSC, DCC, DELTA, DEMCO, DIMET, DRT, DTAC, DUSIT, EA, EASTW, EGCO, EP, EPG, ERW, ESTAR, ETE, FE, FNS, FPI, FPT, FSMART, FSS, FTE, GBX, GC, GCAP, GEL, GFPT, GGC, GJS, GPI, GPSC, GSTEEL, GULK, GUNKUL, HANA, HARN, HEMP, HENG, HMPRO, HTC, ICC, ICHI, IFS, III, ILINK, INET, INSURE, INTUCH, IRC, IRPC, ITEL, IVL, JKN, JR, K, KASET, KBANK, KBS, KCAR, KCE, KGI, KKP, KSL, KTB, KTC, KWI, L&E, LANNA, LH, LHFG, LHK, LPN, LRH, M, MAJOR, MAKRO, MALEE, MATCH, MBAX, MBK, MC, MCOT, META, MFC, MFEC, MILL, MINT, MONO, MOONG, MSC, MST, MTC, MTI, NBC, NEP, NINE, NKI, NOBLE, NOK, NSI, NWR, OCC, OGC, ORI, PAP, PATO, PB, PCSGH, PDG, PDJ, PG, PHOL, PK, PL, PLANB, PLANET, PLAT, PM, PPP, PPPM, PPS, PR9, PREB, PRG, PRINC, PRM, PROS, PSH, PSL, PSTC, PT, PTG, PTT, PTTEP, PTTGC, PYLON, Q-CON, QH, QLT, QTC, RATCH, RML, RWI, S&J, SAAM, SABINA, SAPPE, SAT, SC, SCC, SCCC, SCG, SCGP, SCM, SCN, SEAOIL, SE-ED, SELIC, SENA, SGP, SINGER, SIRI, SITHAI, SKR, SMIT, SMK, SMPC, SNC, SNF, SOFALU, SPC, SRICHA, SSF, SSP, SSSC, SST, STA, STGT, STOWER, SUSCO, SVI, SYMEC, TAE, TAKUNI, TASCO, TCAP, TCMC, TFG, TFI, TFMAMA, TGH, THANI, THCOM, THIP, THRE, THREL, TIDLOR, TIPCO, TISCO, TKS, TKT, TMILL, TMT, TNITY, TNL, TNP, TNR, TOG, TOP, TOPP, TAP, CS, TPP, TRU, TRUE, TSTE, STH, TTA, TTB, TTCL, TU, TVDH, TVI, TVO, TWPC, U, UBE, UBIS, UEC, UKEM, UOBKH, UPF, UV, VGI, VIH, WACOAL, WHA, WHAUP, WICE, WIIK, XO, YUASA, ZEN, ZIGA

Declared (ประกาศเจตนารมณ์)

AH, ALT, APCO, ASW, B52, CHG, CI, CPR, CPW, DDD, DHOUSE, DOHOME, ECF, EKH, ETC, EVER, FLOYD, GLOBAL, ILM, INOX, J, JMART, JMT, JTS, KEX, KUMWEL, LDC, MEGA, NCAP, NOVA, NRF, NUSA, OR, PIMO, PLE, RS, SAK, SIS, SSS, STECH, SUPER, SVT, TKN, TMD, TMI, TQM, TRT, TSI, VARO, VCOM, VIBHA, W, WIN

N/A

24CS, 3K-BAT, A, A5, AAI, AAV, ABICO, ABM, ACAP, ACC, ACE, ACG, ADB, ADD, AEONTS, AFC, AGE, AHC, AIT, AJA, AKR, ALL, ALLA, ALPHAX, ALUCON, AMARC, AMARIN, AMC, AMR, ANAN, AOT, APEX, APP, APURE, AQ, AQUA, ARIN, ARIP, ARROW, ASAP, ASEFA, ASIA, ASIMAR, ASN, ATP30, AU, AUCT, BA, BBGI, BBIK, BC, BCT, BDMS, BEAUTY, BEM, BGT, BH, BIG, BIOTEC, BIS, BIZ, BJCH, BKD, BLAND, BLESS, BLISS, BM, BOL, BR, BRI, BROCK, BSM, BTG, BTINC, BTW, BUI, BYD, CAZ, CBG, CCET, CCP, CCEY, CGD, CH, CHAYO, CHIC, CHO, CITY, CIVIL, CK, CKP, CMAN, CMO, CMR, CNT, COLOR, COMAN, CPANEL, CPH, CPT, CRANE, CRD, CSP, CSR, CSS, CTW, CV, CWT, D, DCON, DITTO, DMT, DOD, DPAINT, DTCI, DV8, EASON, ECL, EE, EFORL, EMC, ESSO, F&D, FANCY, FMT, FN, FORTH, FTI, FVC, GENCO, GIFT, GL, GLAND, GLOCON, GLORY, GRAMMY, GRAND, GREEN, GSC, GTB, GYT, HFT, HL, HPT, HTECH, HUMAN, HYDRO, ICN, IFEC, IHL, IIG, IMH, IND, INGRS, INSET, IP, IRCP, IT, ITD, ITNS, JAK, JAS, JCK, JCKH, JCT, JDF, JSP, JUBILE, JWD, KAMART, KC, KCC, KCM, KDH, KIAT, KISS, KK, KKC, KLINIQ, KOOL, KTIS, KUN, KWC, KWM, KYE, LALIN, LEE, LEO, LIT, LOXLEY, LPH, LST, MACO, MANRIN, MATI, MAX, M-CHAI, MCS, MDX, MENA, METCO, MGT, MICRO, MIDA, MITSIB, MJD, MK, ML, MODERN, MORE, MPIC, MUD, MVP, NATION, NC, NCH, NCL, NDR, NER, NETBAY, NEW, NEWS, NEX, NFC, NNCL, NPK, NSL, NTV, NV, NVD, NYT, OHTL, OISHI, ONEE, OSP, OTO, PACE, PACO, PAF, PCC, PEACE, PERM, PF, PICO, PIN, PJW, PLUS, PMTA, POLAR, POLY, POMPUI, PORT, POST, PM, PRAKIT, PRAPAT, PRECHA, PRIME, PRINE, PRINE, SANKO, SAUCE, SAWAD, SAWANG, SCAP, SCI, SCP, SDC, SE, SEAFCO, SECURE, SENAJ, SFLEX, SFP, SFT, SGF, SHANG, SHAR, SALEE, SAM, SAMART, SAMCO, SAMTEL, SANKO, SAUCE, SAWAD, SAWANG, SCAP, SCI, SCP, SDC, SE, SEAFCO, SECURE, SENAJ, SFLEX, SFP, SFT, SGF, SHANG, SHAR, SIAM, SICT, SIMAT, SISB, SK, SKE, SKN, SKY, SLM, SLP, SMART, SMD, SMT, SNNP, SO, SOLAR, SONIC, SPA, SPG, SPG, SPVI, SQ, SR, SSC, STANLY, STARK, STC, STEA, STHAI, STI, STP, STU, SUC, SUN, SUTHA, SVH, SVOA, SWC, SYNEX, TACC, TAPAC, TC, CC, CC, J, TCOAT, TEAM, TEAMG, TEAH, TEAMG, THAN, THE, THG, THWI, THIGE,

Explanations

Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of July 7, 2022) are categorised into: companies that have declared their intention to join CAC, and companies certified by CAC.