## Rising naphtha cost again bit into spread

Naphtha cost moved up to a 6-month high of US\$724/t on the back of supply disruption caused by heavy drone attacks at Russia's refineries that cut supply of refined oil products, including naphtha, leading to a $3-14 \%$ WoW fall in product spread in the past week (except for PX and benzene). Feeble sentiment kept producers from passing higher cost on to buyers; the market hopes for an interest rate cut that would spur demand in coming months. Demand recovery in the industry remains at a snail's pace and will continue to dog share prices. Stay cautious; undemanding valuation opens a ST trading opportunity.
Higher naphtha cost bit into average PE/PP spread WoW. While most PE and PP prices were steady WoW, average PE/PP spread fell $5 \%$ WoW to a 7 -week low of US $\$ 324 / \mathrm{t}$, vs 12 MMA of US\$359/t, on a $2 \%$ WoW rise in naphtha cost and the lag before product price adjustment. Average PE/PP price in 1Q24TD is still above US $\$ 1,000 / \mathrm{t}$ from US\$986/t in 4Q23, driven by better demand QoQ due to low season in 4Q23. Spread was weak for most producers given cash cost of US\$350/t and we expect this to lead to more capacity rationalization in 2024.
Tighter PX supply during maintenance shutdown lifted PX spread WoW. PXnaphtha spread widened 7\% WoW to US\$386/t (vs. 12MMA of US\$454/t) driven by a $4 \%$ WoW rise in PX price from tighter supply in the region on the turnaround season for PX plants in China, while higher demand for gasoline blending cut PX feedstock. Benzene spread crept up $2 \%$ WoW to US\$326/t, far above 12MMA of US $\$ 270 / \mathrm{t}$, though below this year's peak of US\$383/t in Feb. Benzene spread was driven by strong demand in the US, especially for gasoline blending.
Higher PX/PTA cost hit integrated PET spread. Integrated PET spread was pulled back $27 \%$ WoW to a 7 -week low of US\$92/t, still below 12MMA of US\$131/t and QTD average of US\$106/t, hurt by higher feedstock cost (PTA and PX). Price of PET bottle chips fell $1 \%$ WoW to US $\$ 920 / \mathrm{t}$ as new capacity additions in China kept market sentiment weak (Czapp). Seasonal demand for PET resin is expected to pick up gradually in coming weeks, but this will be offset by new supply from China, which faces trade barriers. Higher PX cost is the key threat for integrated PET spread amidst lower supply due to upcoming turnaround season and higher demand for gasoline blending.

Valuation summary

| Rating | $\begin{array}{c}\text { Price } \\ \text { (Bt) }\end{array}$ | $\begin{array}{c}\text { TP } \\ \text { (Bt) }\end{array}$ | $\begin{array}{c}\text { ETR } \\ \text { (\%) }\end{array}$ | P/E ( $\mathbf{2 4 F}$ | 25F | P/BV (x) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7.9 | 10.0 | 30.5 | 16.8 | 13.5 | 0.8 | $\begin{array}{lllllllll} & \text { GGC } & & \text { Underperform } & 7.9 & 10.0 & 30.5 & 16.8 & 13.5 \\ & 0.8 & 0.8\end{array}$ $\begin{array}{lllllrlll}\text { IVL } & \text { Neutral } & 24.4 & 32.0 & 35.2 & 8.1 & 5.6 & 0.8 & 0.7 \\ \text { PTTGC } & \text { Neutral } & 39.0 & 50.0 & 31.8 & 14.4 & 11.8 & 0.6 & 0.6\end{array}$ Average

Source: InnovestX Research

## Price performance

|  | Absolute |  |  |  |  | Relative to SET |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| (\%) | $\mathbf{1 M}$ | $\mathbf{3 M}$ | $\mathbf{1 2 M}$ |  | $\mathbf{1 M}$ | $\mathbf{3 M}$ | $\mathbf{1 2 M}$ |  |
| GGC | $(6.5)$ | $(12.8)$ | $(39.6)$ |  | $6.6)$ | $(11.6)$ | $(32.1)$ |  |
| IVL | 3.8 | $(12.1)$ | $(27.7)$ |  | 3.7 | $(10.9)$ | $(18.7)$ |  |
| PTTGC | 4.7 | $(3.7)$ | $(11.4)$ |  | 4.6 | $(2.5)$ | $(0.3)$ |  |

Source: SET and InnovestX Research

## PBV band-SETPETRO



Source: SET, InnovestX Research

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Key product prices and spread

| (US\$/t) | $\begin{array}{r} \text { Current } \\ \text { 15-Mar-24 } \end{array}$ | -1W | -1M | -3M | -6M | -12M | $\begin{gathered} 1924 \\ \text { QTD } \end{gathered}$ | 4 Q23 | Q0Q\% | $\begin{array}{r} 2024 \\ \text { YTD } \end{array}$ | YoY\% | 12MMA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Naphtha (Japan) C\&F | 724 | 2\% | 4\% | 6\% | 1\% | 10\% | 682 | 657 | 4\% | 682 | -4\% | 647 |
| Ethylene (SE Asia) CFR | 1,015 | 0\% | 6\% | 19\% | 17\% | 4\% | 948 | 919 | 3\% | 948 | 4\% | 893 |
| Propylene (SE Asia) CFR | 865 | -1\% | -2\% | 7\% | 2\% | -7\% | 903 | 806 | 12\% | 903 | -4\% | 846 |
| HDPE (SE Asia Film) CFR | 1,040 | 0\% | 1\% | 6\% | 0\% | -5\% | 1,022 | 1,001 | 2\% | 1,022 | -5\% | 1,023 |
| LDPE (SE Asia Film) CFR | 1,140 | 0\% | 3\% | 13\% | 10\% | -1\% | 1,095 | 1,019 | 7\% | 1,095 | -5\% | 1,039 |
| LLDPE (SE Asia Film) CFR | 1,020 | 0\% | 1\% | 6\% | 1\% | -6\% | 1,008 | 975 | 3\% | 1,008 | -6\% | 999 |
| PP (SE Asia Inj) CFR | 990 | -1\% | 0\% | 6\% | 2\% | -7\% | 980 | 947 | 3\% | 980 | -8\% | 971 |
| Related stocks | PTTGC ( $)$ | SCC (-) | IRPC (-) |  |  |  |  |  |  |  |  |  |
| Paraxylene (FOB) | 1,110 | 4\% | 0\% | 5\% | -9\% | 8\% | 1,095 | 1,083 | 1\% | 1,095 | -1\% | 1,101 |
| Benzene (FOB Korea Spot) | 1,050 | 2\% | 0\% | 21\% | 2\% | 14\% | 1,002 | 894 | 12\% | 1,002 | 7\% | 915 |
| Related stocks | PTTGC (+) | TOP (+) |  |  |  |  |  |  |  |  |  |  |
| MEG (SE Asia) CFR | 555 | 1\% | 0\% | 11\% | 11\% | 9\% | 552 | 493 | 12\% | 552 | 4\% | 505 |
| PTA (SE Asia) CFR | 785 | 3\% | -2\% | 4\% | -9\% | -3\% | 784 | 776 | 1\% | 784 | -2\% | 798 |
| PET Bottle (NE Asia) FOB | 920 | -1\% | -1\% | 2\% | -1\% | -7\% | 925 | 904 | 2\% | 925 | -5\% | 940 |
| Related stocks | PTTGC (-) | IVL (-) |  |  |  |  |  |  |  |  |  |  |
| ABS (SE Asia) CFR | 1,430 | 1\% | 7\% | 12\% | 4\% | 0\% | 1,342 | 1,331 | 1\% | 1,342 | -6\% | 1,342 |
| PS GPPS (SE Asia) CFR | 1,290 | 0\% | 2\% | 6\% | 4\% | 2\% | 1,256 | 1,254 | 0\% | 1,256 | -3\% | 1,239 |
| Related stocks | IRPC (-) |  |  |  |  |  |  |  |  |  |  |  |
| PVC (SE Asia) CFR | 800 | 0\% | 1\% | 1\% | -10\% | -11\% | 783 | 786 | 0\% | 783 | -13\% | 819 |
| Related stocks | SCC (+) | PTTGC (+) |  |  |  |  |  |  |  |  |  |  |
| Spread |  |  |  |  |  |  |  |  |  |  |  |  |
| Ethylene - naphtha | 291 | -5\% | 12\% | 69\% | 89\% | -8\% | 266 | 263 | 1\% | 266 | 30\% | 246 |
| Propylene - naphtha | 141 | -14\% | -24\% | 15\% | 9\% | -48\% | 221 | 150 | 48\% | 221 | -6\% | 199 |
| HDPE - naphtha | 316 | -4\% | -6\% | 6\% | -2\% | -29\% | 340 | 344 | -1\% | 340 | -6\% | 376 |
| LDPE - naphtha | 416 | -3\% | 0\% | 27\% | 28\% | -16\% | 412 | 363 | 14\% | 412 | -7\% | 392 |
| LDPE - Ethylene | 125 | 0\% | -19\% | -19\% | -26\% | -29\% | 147 | 100 | 47\% | 147 | -38\% | 146 |
| LLDPE - naphtha | 296 | -4\% | -6\% | 7\% | 1\% | -30\% | 326 | 319 | 2\% | 326 | -10\% | 352 |
| PP - naphtha | 266 | -8\% | -10\% | 7\% | 5\% | -34\% | 298 | 290 | 3\% | 298 | -17\% | 324 |
| PX - naphtha | 386 | 7\% | -6\% | 2\% | -24\% | 5\% | 413 | 426 | -3\% | 413 | 5\% | 454 |
| BZ - naphtha | 326 | 2\% | -7\% | 74\% | 4\% | 24\% | 320 | 238 | 35\% | 320 | 41\% | 269 |
| MEG - Ethylene | -74 | n.a. | n.a. | n.a. | n.a. | n.a. | -35 | -76 | n.a. | -35 | n.a. | -49 |
| PTA - PX | 41 | -4\% | -31\% | -8\% | 5\% | -66\% | 50 | 50 | 0\% | 50 | -17\% | 61 |
| PET spread | 56 | -37\% | 5\% | -30\% | 175\% | -53\% | 63 | 69 | -9\% | 63 | -43\% | 81 |
| ABS spread | 774 | -1\% | 7\% | 0\% | 0\% | -11\% | 740 | 804 | -8\% | 740 | -15\% | 812 |
| PS spread | 166 | -9\% | -1\% | -42\% | -5\% | -36\% | 190 | 281 | -32\% | 190 | -36\% | 257 |
| PVC - ethylene | 297 | 9\% | 4\% | -6\% | -35\% | -30\% | 281 | 315 | -11\% | 281 | -39\% | 358 |

## Figure 1: Ethylene vs. naphtha



Source: Industry data, Bloomberg Finance L.P. and InnovestX Research
Figure 3: HDPE vs. naphtha


Source: Industry data, Bloomberg Finance L.P. and InnovestX Research
Figure 5: LLDPE vs. naphtha


Source. Industry data, Bloomberg Finance L.P. and InnovestX Research
Figure 7: PP vs. naphtha


[^0]Figure 2: Propylene vs. naphtha
2,000

Source: Industry data, Bloomberg Finance L.P. and InnovestX Research
Figure 4: LDPE vs. naphtha


Source: Industry data, Bloomberg Finance L.P. and InnovestX Research

## Figure 6: LDPE vs. ethylene



Source. Industry data, Bloomberg Finance L.P. and InnovestX Research

## Figure 8: MEG vs. ethylene



Source: Industry data, Bloomberg Finance L.P. and InnovestX Research

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## Figure 9: Paraxylene vs. naphtha



Source: Industry data, Bloomberg Finance L.P. and InnovestX Research
Figure 11: PTA vs. paraxylene


Source: Industry data, Bloomberg Finance L.P. and InnovestX Research
Figure 13: ABS price and product spread


Source: Industry data, Bloomberg Finance L.P. and InnovestX Research
Figure 15: Share price performance - IVL


## Figure 10: Benzene vs. naphtha



Source: Industry data, Bloomberg Finance L.P. and InnovestX Research

## Figure 12: Integrated PET spread



Source: Industry data, Bloomberg Finance L.P. and InnovestX Research
Figure 14: Polystyrene price and product spread


Source: Industry data, Bloomberg Finance L.P. and InnovestX Research
Figure 16: Share price performance - PTTGC


Figure 17: PBV band - IVL


Figure 18: PBV band - PTTGC


Figure 19: Product spread - heat map

| Product | 1Q20 | 2Q20 | 3Q20 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | 1Q23 | 2Q23 | 3Q23 | 4Q23 | 1Q24 | Product |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HDPE | 362 | 497 | 518 | 607 | 583 | 576 | 462 | 505 | 421 | 445 | 368 | 336 | 373 | 436 | 361 | 344 | 340 | HDPE |
| LDPE | 430 | 577 | 601 | 831 | 968 | 917 | 740 | 880 | 741 | 782 | 600 | 472 | 446 | 437 | 343 | 363 | 412 | LDPE |
| LLDPE | 357 | 485 | 471 | 565 | 581 | 583 | 510 | 557 | 445 | 477 | 389 | 344 | 369 | 408 | 337 | 319 | 326 | LLDPE |
| PP | 464 | 560 | 525 | 653 | 754 | 695 | 547 | 550 | 428 | 432 | 352 | 291 | 359 | 393 | 295 | 290 | 298 | PP |
| PX | 294 | 196 | 122 | 149 | 226 | 312 | 274 | 179 | 286 | 635 | 501 | 468 | 401 | 484 | 490 | 426 | 413 | PX |
| BZ | 170 | 100 | 31 | 107 | 188 | 352 | 324 | 198 | 200 | 357 | 272 | 157 | 238 | 270 | 256 | 238 | 320 | BZ |
| PS | 372 | 459 | 411 | 574 | 511 | 498 | 450 | 472 | 395 | 305 | 392 | 365 | 285 | 306 | 239 | 281 | 190 | PS |
| ABS | 976 | 992 | 1,222 | 1,571 | 1,925 | 1,976 | 1,760 | 1,785 | 1,366 | 1,231 | 1,024 | 945 | 863 | 863 | 816 | 804 | 740 | ABS |
| PET | 146 | 175 | 129 | 132 | 145 | 149 | 118 | 217 | 203 | 201 | 200 | 69 | 109 | 117 | 66 | 69 | 63 | PET |
| Int PET | 198 | 279 | 213 | 208 | 241 | 224 | 209 | 321 | 269 | 172 | 257 | 113 | 166 | 190 | 106 | 112 | 37 | Int PET |
| PVC | 454 | 445 | 465 | 543 | 619 | 710 | 548 | 629 | 472 | 579 | 446 | 412 | 453 | 354 | 453 | 315 | 281 | PVC |

Source: InnovestX Research
Figure 20: Valuation summary (price as of Mar 19, 2024)

|  | Rating | $\begin{gathered} \text { Price } \\ (\mathrm{Bt} / \mathrm{Sh}) \end{gathered}$ | Target <br> (Bt/Sh) | ETR <br> (\%) | P/E (x) |  |  | EPS growth (\%) |  |  | P/BV (x) |  |  | ROE (\%) |  |  | Div. Yield (\%) |  |  | EV/EBITDA ( x ) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 23A | 24F | 25F | 23A | 24 F | 25 F | 23A | 24F | 25 F | 23A | 24F | 25 F | 23A | 245 | $25 F$ | 23A | 24F | 25F |
| GGC | Underperform | 7.85 | 10.0 | 30.5 | n.m. | 16.8 | 13.5 | n.m. | n.m. | 24 | 0.8 | 0.8 | 0.8 | (2) | 5 | 6 | 1.3 | 3.1 | 3.7 | 12.8 | 5.3 | 4.4 |
| IVL | Neutral | 24.40 | 32.0 | 35.2 | 351.8 | 8.1 | 5.6 | (99) | 4,260 | 43 | 0.8 | 0.8 | 0.7 | 0 | 10 | 13 | 3.8 | 4.1 | 5.3 | 8.9 | 5.2 | 3.9 |
| PTTGC | Neutral | 39.00 | 50.0 | 31.8 | n.m. | 14.4 | 11.8 | n.m. | n.m. | 22 | 0.6 | 0.6 | 0.6 | (1) | 4 | 5 | 2.6 | 3.6 | 4.4 | 9.9 | 7.6 | 6.9 |
| Average |  |  |  |  | 351.8 | 13.1 | 10.3 | (99) | 4,260 | 30 | 0.8 | 0.7 | 0.7 | (1) | 6 | 8 | 2.5 | 3.6 | 4.5 | 10.5 | 6.0 | 5.0 |

Source: InnovestX Research
Figure 21: Regional peer comparison

| Company | PE (x) |  |  | EPS Growth (\%) |  |  | PBV (x) |  |  | ROE (\%) |  |  | Div. Yield (\%) |  |  | EV/EBITDA (x) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 23F | 24F | 25F | 23F | 24F | 25F | 23F | 24F | 25F | 23F | 24F | 25F | 23F | 24F | 25F | 23F | 24F | 25F |
| Sinopec Shanghai Petrochem | n.m. | 26.2 | 17.4 | n.m. | n.m. | 50.5 | 1.1 | 0.9 | 0.7 | 0.1 | 3.9 | 5.2 | n.a | 0.9 | 3.5 | 17.0 | 7.5 | 6.5 |
| China Petroleum \& Chemical | 10.6 | 9.5 | 9.0 | 5.7 | 11.9 | 6.0 | 0.9 | 0.9 | 0.8 | 8.7 | 9.3 | 9.3 | 5.8 | 6.3 | 6.2 | 5.1 | 4.7 | 4.4 |
| PetroChina Co Ltd | 6.6 | 6.4 | 6.7 | 8.7 | 2.7 | (3.6) | 0.7 | 0.7 | 0.6 | 11.4 | 10.8 | 9.9 | 7.6 | 7.3 | 6.9 | 4.1 | 4.0 | 4.0 |
| Reliance Industries Ltd | 27.4 | 23.9 | 21.3 | 7.3 | 14.8 | 12.0 | 2.3 | 2.1 | 2.0 | 8.7 | 9.4 | 9.7 | 0.3 | 0.3 | 0.4 | 14.0 | 12.4 | 11.2 |
| Mitsui Chemicals Inc | 13.7 | 11.1 | 8.8 | (28.5) | 22.6 | 27.3 | 1.1 | 1.0 | 0.9 | 8.5 | 10.0 | 11.4 | 3.0 | 3.2 | 3.4 | 8.2 | 7.3 | 6.3 |
| Asahi Kasei Corp | 40.4 | 15.0 | 12.8 | 236.9 | 170.2 | 17.4 | 0.9 | 0.9 | 0.8 | 4.8 | 6.1 | 6.9 | 3.2 | 3.2 | 3.3 | 8.0 | 7.2 | 6.6 |
| Sumitomo Chemical Co Ltd | n.m | 97.5 | 8.4 | (299.8) | 106.11 | ,066.2 | 0.5 | 0.5 | 0.5 | n.m. | 1.0 | 6.7 | 3.8 | 3.5 | 4.1 | n.a. | n.a. | 7.9 |
| Lotte Chemical Corp | 479.2 | 31.3 | 9.7 | (86.3) 1 | 1,433.4 | 220.7 | 0.3 | 0.3 | n.a. | (0.1) | 1.0 | 3.3 | 1.8 | 2.6 | 3.2 | 15.5 | 10.1 | 7.3 |
| Far Eastern New Century Corp | 20.5 | 19.4 | 16.0 | (5.0) | 5.5 | 21.2 | 0.8 | 0.8 | 0.7 | 3.8 | 3.8 | 4.5 | 3.7 | 3.9 | 4.3 | 11.9 | 11.3 | 10.7 |
| Formosa Chemicals \& Fibre | 34.6 | 23.2 | 18.3 | 25.4 | 48.9 | 27.2 | 1.0 | 0.9 | 1.0 | 3.1 | 3.0 | 4.8 | 2.2 | 2.5 | 4.0 | 21.1 | 17.5 | 13.9 |
| Formosa Plastics Corp | 36.1 | 23.1 | 15.8 | (66.9) | 56.3 | 46.3 | 1.2 | 1.2 | 1.1 | 3.7 | 5.1 | 7.4 | 2.2 | 3.4 | 4.0 | 33.9 | 21.1 | 15.9 |
| Nan Ya Plastics Corp | 26.7 | 19.2 | 13.0 | (49.1) | 39.1 | 47.6 | 1.2 | 1.1 | 1.0 | 2.8 | 5.9 | 8.2 | 1.8 | 4.1 | 5.7 | 21.1 | 12.1 | 9.7 |
| Formosa Petrochemical Corp | 28.9 | 24.4 | 19.0 | 59.9 | 18.2 | 28.3 | 2.0 | 1.8 | 1.8 | 7.5 | 7.8 | 9.6 | 2.6 | 2.9 | 4.1 | 17.6 | 13.9 | 11.0 |
| Petronas Chemicals Group Bhd | 25.7 | 18.6 | 17.2 | (66.5) | 38.5 | 7.9 | 1.4 | 1.3 | 1.3 | 5.7 | 6.5 | 8.2 | 2.5 | 2.7 | 3.3 | 11.8 | 10.3 | 8.8 |
| Indorama Ventures PCL | 44.4 | 14.9 | 10.4 | (89.8) | 197.5 | 43.3 | 0.7 | 0.8 | 0.8 | 1.6 | 4.7 | 6.9 | 2.0 | 2.4 | 3.3 | 9.4 | 7.7 | 6.9 |
| IRPC PCL | n.m | 16.6 | 9.3 | 66.2 | 263.4 | 79.3 | 0.5 | 0.5 | 0.5 | (1.6) | 2.6 | 4.8 | 1.3 | 2.2 | 3.5 | 13.3 | 8.5 | 7.3 |
| PTT Global Chemical PCL | n.m | 23.3 | 12.9 | 60.2 | 316.2 | 81.6 | 0.7 | 0.6 | 0.6 | 5.9 | 2.9 | 5.0 | 6.1 | 2.6 | 4.0 | 11.4 | 9.4 | 8.0 |
| Global Green Chemicals | 314.0 | 16.2 | 12.8 | (97.3) 1 | 1,840.0 | 26.8 | 0.8 | 0.8 | 0.8 | (0.0) | 5.0 | 6.0 | 1.3 | 2.6 | 3.9 | 11.1 | 7.3 | 6.6 |
| Alpek SA de CV | 20.0 | 10.2 | 9.1 | (90.8) | 97.0 | 12.1 | 0.6 | 0.7 | 0.7 | 2.5 | 6.0 | 8.5 | 12.1 | 6.9 | 8.2 | 4.6 | 5.1 | 4.6 |
| Eastman Chemical Co | 15.0 | 12.5 | 10.8 | (4.2) | 20.4 | 15.3 | 2.0 | 1.9 | 1.7 | 13.9 | 15.6 | 16.5 | 3.4 | 3.5 | 3.7 | 9.5 | 8.4 | 7.8 |
| Average | 71.5 | 22.1 | 12.9 | (21.8) | 247.5 | 91.7 | 1.0 | 1.0 | 1.0 | 4.8 | 6.0 | 7.6 | 3.5 | 3.3 | 4.1 | 13.1 | 9.8 | 8.3 |

Source: Bloomberg Finance L.P., InnovestX Research

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## CG Rating 2023 Companies with CG Rating

## Companies with Excellent CG Scoring

7UP, AAV, ABM, ACE, ACG, ADB, ADD, ADVANC, AEONTS, AF, AGE, AH, AHC, AIRA, AIT, AJ, AKP, AKR, ALLA, ALT, AMA, AMARIN, AMATA, AMATAV, ANAN, AOT, AP, APCO, APCS, ARIP, ARROW, ASEFA, ASK, ASP, ASW, ATP3O, AUCT, AWC, AYUD, B, BA, BAFS, BAM, BANPU, BAY, BBGI, BBIK, BBL, BC, BCH, BCP, BCPG, BDMS, BEC, BEM, BEYOND, BGC, BGRIM, BH, BIZ, BJC, BJCHI, BKI, BLA, BOL, BPP, BRI, BROOK, BRR, BTS, BTW, BWG, BYD, CBG, CENTEL, CFRESH, CHASE, CHEWA, CHG, CHOW, CIMBT, CIVIL, CK, CKP, CM, CNT, COLOR, COM7, COTTO, CPALL, CPAXT, CPF, CPI, CPL, CPN, CPW, CRC, CRD, CSC, CSS, CV, DCC, DDD, DELTA, DEMCO, DMT, DOHOME, DRT, DUSIT, EA, EASTW, ECF, ECL, EE, EGCO, EPG, ERW, ETC, ETE, FE, FLOYD, FN, FPI, FPT, FSX, FVC, GBX, GC, GCAP, GENCO, GFPT, GGC, GLAND, GLOBAL, GPSC, GRAMMY, GULF, GUNKUL, HANA, HARN, HENG, HMPRO, HPT, HTC, ICC, ICHI, ICN, III, ILINK, ILM, IMH, IND, INET, INTUCH, IP, IRC, IRPC, ITC, ITEL, IVL, JAS, JTS, KBANK, KCC, KCE, KEX, KKP, KSL, KTB, KTC, KTMS, KUMWEL, KUN, LALIN, LANNA, LH LHFG, LIT, LOXLEY, LPN, LRH, LST, M, MAJOR, MALEE, MATCH, MBK, MC, M-CHAI, MCOT, MEGA, MFC, MFEC, MILL, MINT, MONO, MOONG, MSC, MST, MTC, MTI, NC, NCH, NCL, NDR, NER, NKI, NOBLE, NRF, NTV, NVD, NWR, NYT, OCC, OISHI ${ }^{1}$, ONEE, OR, ORI, OSP, OTO, PAP, PATO, PB, PCSGH, PDG, PDJ, PG, PHOL, PIMO, PJW, PLANB, PLAT, PLUS, PM, POLY, PORT, PPP, PPS, PR9, PRG, PRINC, PRM, PRTR, PSH, PSL, PT, PTC, PTT, PTTEP, PTTGC, Q-CON, QH, QTC, RATCH, RBF, RPH, RS, RT, S, S\&J, SA, SABINA, SAK, SAMART, SAMTEL, SAPPE, SAT, SBNEXT, SC, SCB, SCC, SCCC, SCG, SCGP, SCM, SDC, SEAFCO, SEAOIL, SECURE, SELIC, SENA, SENX, SFP², SFT, SGC, SGF, SGP, SHR, SICT, SIRI, SIS, SITHAI, SJWD, SKR, SM, SMPC, SMT, SNC, SNNP, SNP, SO, SPALI, SPC, SPCG, SPI, SPRC, SR, SSC, SSF, SSSC, STA, STC, STEC, STGT, STI, SUC, SUN, SUSCO, SUTHA, SVI, SVT, SYMC, SYNEX, SYNTEC, TACC, TAE, TCAP, TCMC, TEAMG, TEGH, TFG, TFMAMA, TGE, TGH, THANA, THANI, THCOM, THIP, THRE, THREL, TIDLOR, TIPH, TISCO, TK, TKN, TKS, TKT, TLI, TM, TMC, TMD, TMT, TNDT, TNITY, TNL, TNR, TOA, TOG, TOP, TPBI, TPCS, TPIPL, TPIPP, TPS, TQM, TQR, TRT, TRUE, TRV, TSC, TSTE, TSTH, TTA, TTB, TTCL, TTW, TURTLE, TVDH, TVH, TVO, TVT, TWPC, UAC, UBE, UBIS, UKEM, UP, UPF, UPOIC, UV, VCOM, VGI, VIBHA, VIH, VL, WACOAL, WGE, WHA, WHAUP, WICE, WINMED, WINNER, XPG, YUASA, ZEN

## Companies with Very Good CG Scoring

2S, A5, AAI, AIE, ALUCON, AMR, APURE, ARIN, AS, ASIA, ASIAN, ASIMAR, ASN, AURA, BR, BSBM, BTG, CEN, CGH, CH, CHIC, CI, CIG, CMC, COMAN, CSP, DOD, DPAINT, DV8, EFORL, EKH, ESSO, ESTAR, EVER, FORTH, FSMART, FTI, GEL, GPI, HEALTH, HUMAN, IFS, INSET, IT, J, JCKH, JDF, JKN, JMART, JUBILE, K, KCAR, KGI, KIAT, KISS, KK, KTIS, KWC, KWM, LDC, LEO, LHK, MACO, METCO, MICRO, MK, MVP, NCAP, NOVA, NTSC, PACO, PIN, PQS, PREB, PRI, PRIME, PROEN, PROS, PROUD, PSTC, PTECH, PYLON, RCL, SALEE, SANKO, SCI, SCN, SE, SE-ED, SFLEX, SINGER, SKN, SONIC, SORKON, SPVI, SSP, SST, STANLY, STP, SUPER, SVOA, SWC, TCC, TEKA, TFM, TMILL, TNP, TPLAS, TPOLY, TRC, TRU, TRUBB, TSE, VRANDA, WAVE, WFX, WIIK, WIN, WP, XO

## Companies with Good CG Scoring

$24 C S$, 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

## Corporate Governance Report

The material contained in this publication is for general information only and is not intended as advice on any of the matters discussed herein. Readers and others should perform their own independent analysis as to the accuracy or completeness or legality of such information. The Thai Institute of Directors, its officers, the authors and editor make no representation or warranty as to the accuracy, completeness or legality of any of the information contained herein. By accepting this document, each recipient agrees that the Thai Institute of Directors Association, its officers, the authors and editor shall not have any liability for any information contained in, or for any omission from, this publication.
The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey result may be changed after that date. InnovestX Securities Company Limited does not conform nor certify the accuracy of such survey result.
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 2022 to 31 October 2023) is publicized.
${ }^{1}$ OISHI was voluntarily delisted from the Stock Exchange of Thailand, effectively on September 6, 2023
${ }^{2}$ SFP was voluntarily delisted from the Stock Exchange of Thailand, effectively on July 19, 2023
${ }^{3}$ TCCC was voluntarily delisted from the Stock Exchange of Thailand effectively on August 25, 2023

## Anti-corruption Progress Indicator

## Certified (ไั̃sัuกาssัusอง)

2S, 7UP, AAI, ADVANC, AF, AH, AI, AIE, AIRA, AJ, AKP, AMA, AMANAH, AMATA, AMATAV, AP, APCS, AS, ASIAN, ASK, ASP, AWC, AYUD, B, BAFS, BAM, BANPU, BAY, BBGI, 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, CPALL, CPAXT, CPF, CPI, CPL, CPN, CPW, CRC, CSC, DCC, DELTA, DEMCO, DIMET, DOHOME, DRT, DUSIT, EA, EASTW, ECF, EGCO, EP, EPG, ERW, ESTAR, ETC, ETE, FNS, FPI, FPT, FSMART, FTE, GBX, GC, GCAP, GEL, GFPT, GGC, GJS, GPI, GPSC, GSTEEL, GULF, GUNKUL, HANA, HARN, HENG, HMPRO, HTC, ICC, ICHI, IFS, III, ILINK, ILM, INET, INOX, INSURE, INTUCH, IRPC, ITEL, IVL, JAS, JKN, JR, JTS, KASET, KBANK, KBS, KCAR, KCC, KCE, KGEN, KGI, KKP, KSL, KTB, KTC, L\&E, LANNA, LHFG, LHK, LPN, LRH, M, MAJOR, MALEE, MATCH, MBAX, MBK, MC, MCOT, META, MFC, MFEC, MILL, MINT, MONO, MOONG, MSC, MST, MTC, MTI, NATION, NCAP, NEP, NKI, NOBLE, NRF, NWR, OCC, OGC, OR, ORI, PAP, PATO, PB, PCSGH, PDG, PDJ, PG, PHOL, PIMO, PK, PL, PLANB, PLANET, PLAT, PM, PPP, PPPM, PPS, PR9, PREB, PRG, PRINC, PRM, PROS, PSH, PSL, PSTC, PT, PTECH, PTG, PTT, PTTEP, PTTGC, PYLON, Q-CON, QH, QLT, QTC, RABBIT, RATCH, RML, RS, RWI, S\&J, SAAM, SABINA, SAK, SAPPE, SAT, SC, SCC, SCCC, SCG, SCGP, SCM, SCN, SEAOIL, SE-ED, SELIC, SENA, SGC, SGP, SIRI, SITHAI, SKR, SMIT, SMK, SMPC, SNC, SNP, SORKON, SPACK, SPALI, SPC, SPI, SPRC, SRICHA, SSF, SSP, SSSC, SST, STA, STGT, STOWER, SUSCO, SVI, SYMC, SYNTEC, TAE, TAKUNI, TASCO, TCAP, TCMC, TFG, TFI, TFMAMA, TGE, TGH, THANI, THCOM, THIP, THRE, THREL, TIDLOR, TIPCO, TISCO, TKS, TKT, TMD, TMILL, TMT, TNITY, TNL, TNP, TNR, TOG, TOP, TOPP, TPA, TPCS, TRT, TRU, TSC, TSI, TSTE, TSTH, TTA, TTB, TTCL, TU, TVDH, TVO, TWPC, UBE, UBIS, UEC, UKEM, UOBKH, UV, VCOM, VGI, VIH, WACOAL, WHA, WHAUP, WICE, WIIK, XO, YUASA, ZEN, ZIGA

## Declared (Us:กาศเจ๙uาsuณ์)

ACE, ADB, ALT, AMC, ASW, BLAND, BTG, BYD, CAZ, CBG, CV, DEXON, DMT, EKH, FSX, GLOBAL, GREEN, ICN, IHL, ITC, J, JMART, JMT, LEO, LH, MENA, MITSIB, MODERN, NER, NEX, OSP, PEER, PLUS, POLY, PQS, PRIME, PROEN, PRTR, RBF, RT, SA, SANKO, SCB, SENX, SFLEX, SIS, SKE, SM, SVOA, TBN, TEGH, TIPH, TKN, TPAC, TPLAS, TQM, TRUE, W, WPH, XPG N/A
$24 C S, 3 K-B A T, A, A 5, A A V, A B M, ~ A C A P, ~ A C C, ~ A C G, ~ A D D, ~ A D V I C E, ~ A E O N T S, ~ A F C, ~ A G E, ~ A H C, ~ A I T, ~ A J A, ~ A K R, ~ A K S, ~ A L L, ~ A L L A, ~ A L P H A X, ~ A L U C O N, ~ A M A R C, ~ A M A R I N, ~ A M R, ~ A N A N, ~ A N I, ~$ 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, BKGI, 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, CREDIT, CSP, CSR, CSS, CTW, CWT, D, DCON, DDD, DHOUSE, DITTO, DOD, DPAINT, DTCENT, DTCI, DV8, EASON, ECL, EE, EFORL, EMC, ETL, EURO, 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, KWI, KWM, KYE, LALIN, LDC, LEE, LIT, LOXLEY, LPH, LST, MANRIN, MASTER, MATI, MCA, M-CHAI, MCS, MDX, MEB, MEGA, METCO, MGC, MGI, MGT, MICRO, MIDA, MJD, MK, ML, MORE, MOSHI, MTW, MUD, MVP, NAM, NAT, NC, NCH, NCL, NDR, NETBAY, NEW, NEWS, NFC, NL, NNCL, NOK, NOVA, NPK, NSL, NTSC, NTV, NUSA, NV, NVD, NYT, OHTL, ONEE, ORN, PACE, PACO, PAF, PANEL, PCC, PEACE, PERM, PF, PHG, PICO, PIN, PJW, PLE, PLT, PMTA, POLAR, PORT, POST, PPM, PRAKIT, PRAPAT, 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, SAUCE, SAV, SAWAD, SAWANG, SBNEXT, SCAP, SCGD, SCI, SCL, SCP, SDC, SE, SEAFCO, SECURE, SFT, SGF, SHANG, SHR, SIAM, SICT, SIMAT, SINGER, SINO, SISB, SJWD, SK, SKN, SKY, SLM, SLP, SMART, SMD, SMT, SNNP, SO, SOLAR, SONIC, SPA, SPCG, SPG, SPVI, SQ, SR, SRS, SSC, STANLY, STARK, STC, STEC, STECH, STHAI, STI, STP, STPI, SUC, SUN, SUPER, SUTHA, SVR, SVT, SWC, SYNEX, TACC, TAN, TAPAC, TC, TCC, TCJ, TCOAT, TEAM, TEAMG, TEKA, TFM, TGPRO, TH, THAI, THANA, THE, THG, THMUI, TIGER, TITLE, TK, TKC, TLI, TM, TMC, TMI, TMW, TNDT, TNH, TNPC, TOA, TPBI, TPCH, TPIPL, TPIPP, TPL, TPOLY, TPP, TPS, TQR, TR, TRC, TRITN, TRP, TRUBB, TRV, TSE, TTI, TTT, TTW, TURTLE, TVH, TVT, TWP, TWZ, TYCN, UAC, UBA, UMI, UMS, UNIQ, UP, UPF, UPOIC, UREKA, UTP, UVAN, VARO, VIBHA, VL, VNG, VPO, VRANDA, WARRIX, WAVE, WELL, WFX, WGE, WIN, WINDOW, WINMED, WINNER, WORK, WORLD, WP, YGG, YONG, ZAA

## Explanations

Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of November 1, 2023) are categorised into: companies that have declared their intention to join CAC, and companies certified by CAC.


[^0]:    Source: Industry data, Bloomberg Finance L.P. and InnovestX Research

