



# Global Power Synergy

(GPSC.BK/GPSC TB)\*

## Outperform · Maintained

Price as of 24 Aug 2022	67.00
12M target price (Bt/shr)	79.00
Unchanged/Revised up(down)(%)	Unchanged
Upside/downside (%)	17.9

### Key messages

At GPSC's 2Q22 analyst meeting, we learned that Avaada is positioned to be a spearhead for the company's greater renewable energy and growth strategy. GPSC has postponed the ERU project (SCOD in 2025 from 2024) aligning with Thai Oil (TOP.BK/TOP TB)'s\* CFP project. This should result in around Bt20bn liquidity headroom, allowing it to invest in potential projects in 2024. GPSC sees opportunity to bid renewable projects if Thailand's new PDP is launched in September 2022. The company's 3Q22 core profit should be the highest of 2022, before cooling down in 4Q22 on seasonality. We maintain a rating of Outperform with a target price of Bt79.00. We believe the greater contribution and growth from Avaada will result in greater investor confidence in GPSC's growth path.

### Trading data

Mkt cap (Btbn/US\$bn)	188.9/6.0
Outstanding shares (mn)	2,820
Foreign ownership (mn)	71.6
3M avg. daily trading (mn)	8
52-week trading range (Bt)	59.75-88.75
Performance (%)	3M 6M 12M
Absolute	4.3 -9.8 -17.0
Relative	4.4 -7.1 -18.5

### Quarterly EPS

Bt	Q1	Q2	Q3	Q4
2020	0.56	0.67	0.91	0.52
2021	0.70	0.82	0.66	0.41
2022	0.11	0.24		

### Share price chart



Source: SET

Wetid Tangjindakun  
66.2658.8888 Ext. 8855  
wetidt@kgi.co.th

## Good things take time

### Event

2Q22 analyst meeting and our views.

### Impact

#### Elaborated on company's progress on various angles

GPSC has postponed the ERU project (250MWe – SCOD in 2025 from 2024) aligning with Thai Oil (TOP.BK/TOP TB)'s\* CFP project, due to the COVID-19 pandemic. However, it expects project IRR to remain stable due to a pass-through mechanism with 10% hike for cost overrun being guaranteed. This would result in around Bt20bn liquidity headroom, allowing it to invest in potential projects in 2024. Its CFXD offshore wind farm (149MWe) is slated to close the deal in 3Q22 and start contributing from then, which is sooner than the previous guidance. GPSC sees an opportunity to bid on renewable projects if Thailand's new PDP is launched in September 2022. Still, for NUOVO PLUS (49% stake), Axxiva's plan to begin commercial operations of a 1GWh battery plant is delayed to 2H23 (from 1H23) due to supply shortage.

#### Riding clean energy stream in one of the fastest growing markets, India

In a knowledge sharing session about investment in India, we learned that Avaada (43% stake), which is the fifth largest solar power producer in India, is positioned to be a spearhead for GPSC greater renewable energy (RE) and growth strategy. Despite facing elevated solar PV modules, it is optimizing opex and finance costs to sustain IRR on projects. India tweaked its 2030 RE target up to 500GWh (from currently operating 150GWh). An additional 350GWh would take place in 2022-30, leading to enormous growth. Avaada aims to reach 11,000MW in 2025, from 4,634MW. It sees a chance to expand into wind farm, fuel cell, and battery as well.

#### Quick preview of 2H22F

3Q22 core profit should be the highest of the year, backed by i) peak season for hydropower; ii) higher average Ft rate of Bt0.4766/kWh (+0.3068), and iii) stronger Avaada. This would be despite headwinds from a rebound in gas price of around Bt500-510/mmbtu and higher coal price. GPSC also expects to receive the remaining US\$20-30mn from the insurance claim on GE Phase 5 in 4Q22, while the insurance claim on Gheco-One is a 2023 story.

### Valuation & Action

We maintain our Outperform rating with a DCF-based target price of Bt79.00. We believe the greater contribution and growth from Avaada will result in greater investor confidence in GPSC's growth path. We still prefer GPSC over B.Grimm Power (BGRIM.BK/BGRIM TB)\* due to its laggard momentum and promising outlook from Avaada and coal price.

### Risks

Unplanned maintenance, cost overruns, and fluctuations in FX and interest rates.

### Key financials and valuations

	Dec - 20A	Dec - 21A	Dec - 22F	Dec - 23F	Dec - 24F
Revenue (Btmn)	69,578	74,874	98,954	92,066	86,675
Net Profit (Btmn)	7,508	7,319	3,013	4,304	5,523
Normalized Profit (Btmn)	8,963	7,737	3,983	6,154	7,273
Net Profit Growth (%)	84.9	(2.5)	(58.8)	42.9	28.3
Normalized Profit Growth (%)	84.5	(13.7)	(48.5)	54.5	18.2
EPS (Bt)	2.66	2.60	1.07	1.53	1.96
DPS (Bt)	1.50	1.50	1.55	1.60	1.65
EPS Growth (%)	84.9	(2.5)	(58.8)	42.9	28.3
P/E (X)	25.2	25.8	62.7	43.9	34.2
P/B (X)	1.7	1.6	1.6	1.6	1.6
EV/EBITDA (X)	8.4	8.9	11.7	13.1	11.3
Net Debt to Equity (%)	75.1	74.7	82.1	104.8	92.0
Dividend Yield (%)	2.2	2.2	2.3	2.4	2.5
Return on Average Equity (%)	6.7	6.2	2.6	3.7	4.6

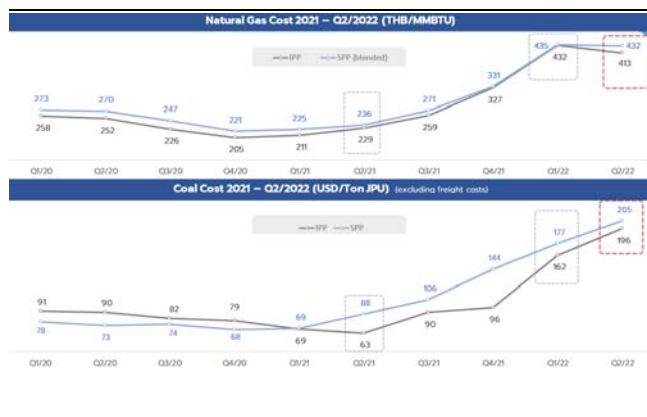
Source: Company data, KGI Securities Research

Figure 1: Project update for GPSC



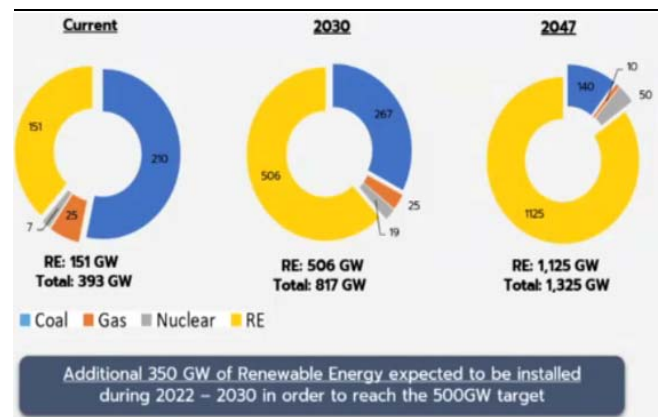
Source: Company data, KGI Securities Research

Figure 2: Historical gas and coal prices



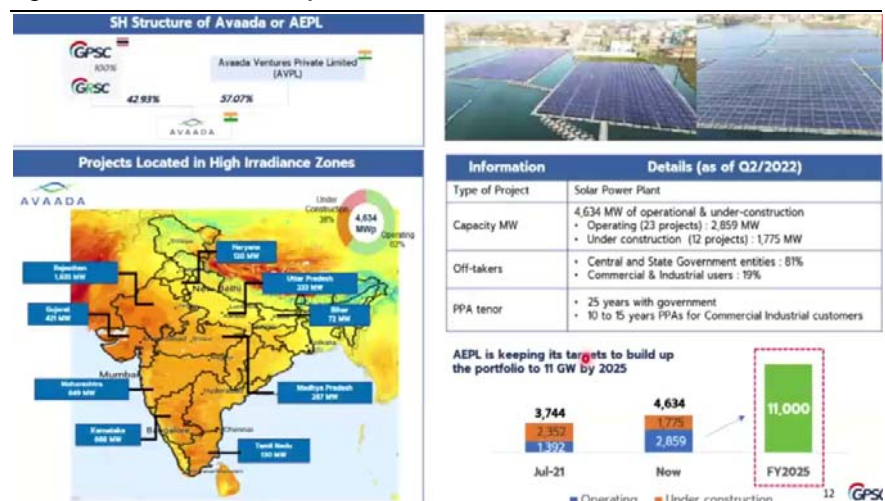
Source: Company data, KGI Securities Research

Figure 3: Breakdown of India's total installed capacity target



Source: Company data, KGI Securities Research

Figure 4: Avaada's business portfolio

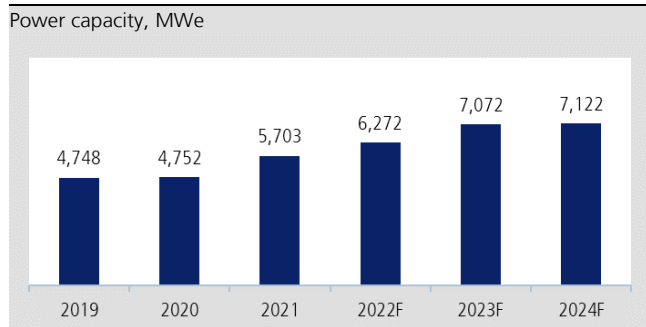


Source: Company data, KGI Securities Research

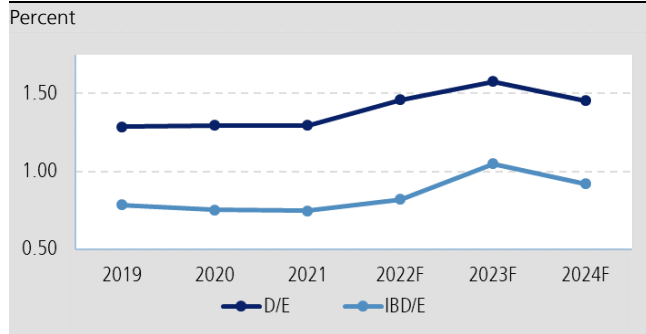
**Figure 5: Company profile**

Global Power Synergy Company (GPSC) is PTT Group's power flagship. It was founded on January 10, 2013, through the amalgamation of PTTUT and IPT. The company's core business is generating and supplying electricity, steam, and processed water to customers. GPSC has set the three growth engines for its business expansion including i) growing with PTT Group & domestic expansion, ii) expanding business to overseas and iii) being involved in future energy such as battery storage and renewable energy.

Source: Company data

**Figure 7: Equity capacity to hit 7.1GWe in 2024F**


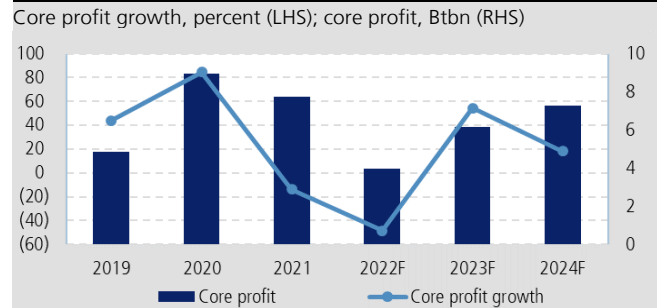
Source: Company data, KGI Securities Research

**Figure 9: Debt to equity ratio to peak in 2023F**


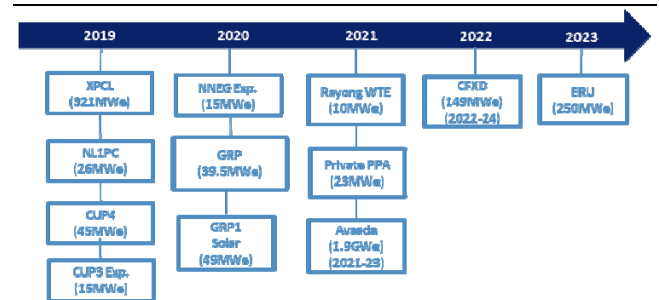
Source: Company data, KGI Securities Research

**Figure 11: Company's PER**

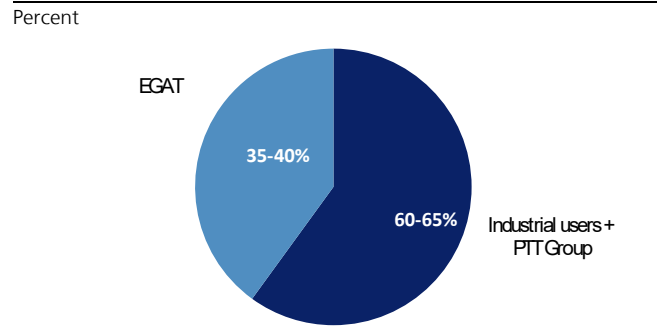

Source: KGI Securities Research

**Figure 6: Earnings to roar back in 2023-24F**


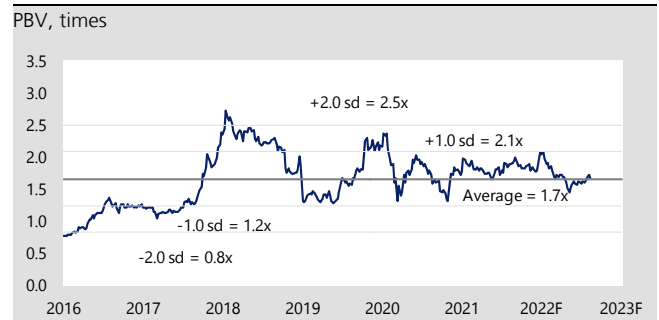
Source: Company data, KGI Securities Research

**Figure 8: Expansion program**


Source: Company data, KGI Securities Research

**Figure 10: Contract with EGAT majority of portfolio (2021)**


Source: Company data, KGI Securities Research

**Figure 12: Company's PBV**


Source: KGI Securities Research

## Quarterly Income Statement

	Sep-19A	Dec-19A	Mar-20A	Jun-20A	Sep-20A	Dec-20A	Mar-21A	Jun-21A	Sep-21A	Dec-21A	Mar-22	Jun-22
Income Statement (Bt mn)												
<b>Revenue</b>	<b>19,226</b>	<b>18,279</b>	<b>18,308</b>	<b>18,138</b>	<b>16,601</b>	<b>16,531</b>	<b>16,624</b>	<b>18,234</b>	<b>17,996</b>	<b>22,019</b>	<b>27,261</b>	<b>27,719</b>
Cost of Goods Sold	(15,848)	(15,748)	(14,995)	(14,566)	(13,263)	(13,625)	(13,314)	(14,895)	(15,254)	(20,272)	(26,559)	(26,231)
<b>Gross Profit</b>	<b>3,378</b>	<b>2,531</b>	<b>3,313</b>	<b>3,572</b>	<b>3,338</b>	<b>2,906</b>	<b>3,310</b>	<b>3,339</b>	<b>2,742</b>	<b>1,746</b>	<b>702</b>	<b>1,489</b>
Operating Expenses	(439)	(646)	(443)	(486)	(421)	(601)	(460)	(545)	(474)	(1,484)	(421)	(457)
Other incomes	295	200	181	372	539	314	360	523	367	2,024	962	628
<b>Operating Profit</b>	<b>3,234</b>	<b>2,086</b>	<b>3,050</b>	<b>3,458</b>	<b>3,456</b>	<b>2,619</b>	<b>3,210</b>	<b>3,317</b>	<b>2,636</b>	<b>2,287</b>	<b>1,243</b>	<b>1,659</b>
Depreciation of fixed assets	(2,069)	(2,124)	(2,170)	(2,196)	(2,169)	(2,172)	(2,161)	(2,430)	(2,330)	(2,311)	(2,236)	(2,293)
<b>Operating EBITDA</b>	<b>5,303</b>	<b>4,210</b>	<b>5,220</b>	<b>5,654</b>	<b>5,625</b>	<b>4,791</b>	<b>5,371</b>	<b>5,747</b>	<b>4,966</b>	<b>4,598</b>	<b>3,480</b>	<b>3,952</b>
<b>Non-Operating Income</b>	<b>17</b>	<b>111</b>	<b>(30)</b>	<b>(5)</b>	<b>21</b>	<b>12</b>	<b>2</b>	<b>(68)</b>	<b>(94)</b>	<b>70</b>	<b>(65)</b>	<b>(180)</b>
Interest Income	0	0	0	0	0	0	0	0	1	2	3	4
Other Non-op Income	17	111	(30)	(5)	21	12	2	(68)	(95)	68	(68)	(184)
<b>Non-Operating Expenses</b>	<b>(1,960)</b>	<b>(1,197)</b>	<b>(1,041)</b>	<b>(991)</b>	<b>(1,026)</b>	<b>(965)</b>	<b>(974)</b>	<b>(987)</b>	<b>(998)</b>	<b>(901)</b>	<b>(974)</b>	<b>(1,046)</b>
Interest Expenses	(1,960)	(1,197)	(1,041)	(991)	(1,026)	(965)	(974)	(987)	(998)	(901)	(974)	(1,046)
Other Non-op Expenses	0	0	0	0	0	0	0	0	0	0	0	0
<b>Equity Income/(Loss)</b>	<b>138</b>	<b>463</b>	<b>(68)</b>	<b>110</b>	<b>638</b>	<b>244</b>	<b>207</b>	<b>519</b>	<b>690</b>	<b>120</b>	<b>143</b>	<b>432</b>
<b>Pre-tax Profit</b>	<b>1,428</b>	<b>1,463</b>	<b>1,912</b>	<b>2,571</b>	<b>3,090</b>	<b>1,910</b>	<b>2,445</b>	<b>2,781</b>	<b>2,233</b>	<b>1,576</b>	<b>347</b>	<b>865</b>
Current Taxation	(129)	(43)	(254)	(284)	(314)	(141)	(453)	(348)	(295)	(97)	34	(53)
Minorities	(407)	(275)	(78)	(392)	(201)	(311)	(19)	(132)	(63)	(309)	(64)	(124)
Extraordinary items	(372)	(384)	(368)	(368)	(363)	(354)	(386)	(418)	(382)	(402)	(458)	(520)
<b>Net Profit</b>	<b>893</b>	<b>1,145</b>	<b>1,580</b>	<b>1,896</b>	<b>2,574</b>	<b>1,458</b>	<b>1,973</b>	<b>2,302</b>	<b>1,875</b>	<b>1,168</b>	<b>313</b>	<b>684</b>
<b>Normalized Profit</b>	<b>1,248</b>	<b>1,418</b>	<b>1,977</b>	<b>2,269</b>	<b>2,916</b>	<b>1,800</b>	<b>2,243</b>	<b>2,478</b>	<b>2,265</b>	<b>751</b>	<b>248</b>	<b>1,100</b>
EPS (Bt)	0.60	0.41	0.56	0.67	0.91	0.52	0.70	0.82	0.66	0.41	0.11	0.24
Normalized EPS (Bt)	0.83	0.50	0.70	0.80	1.03	0.64	0.80	0.88	0.80	0.27	0.09	0.39
<b>Margins</b>												
Gross profit margin	17.6	13.8	18.1	19.7	20.1	17.6	19.9	18.3	15.2	7.9	2.6	5.4
Operating EBIT margin	16.8	11.4	16.7	19.1	20.8	15.8	19.3	18.2	14.6	10.4	4.6	6.0
Operating EBITDA margin	27.6	23.0	28.5	31.2	33.9	29.0	32.3	31.5	27.6	20.9	12.8	14.3
Net profit margin	4.6	6.3	8.6	10.5	15.5	8.8	11.9	12.6	10.4	5.3	1.1	2.5
<b>Growth (QoQ)</b>												
Revenue growth	(3.8)	(4.9)	0.2	(0.9)	(8.5)	(0.4)	0.6	9.7	(1.3)	22.3	23.8	1.7
Operating EBIT growth	(2.7)	(35.5)	46.2	13.4	(0.1)	(24.2)	22.6	3.3	(20.5)	(13.3)	(45.6)	33.4
Operating EBITDA growth	(3.6)	(20.6)	24.0	8.3	(0.5)	(14.8)	12.1	7.0	(13.6)	(7.4)	(24.3)	13.6
Net profit growth	(17.4)	28.2	38.0	20.0	35.8	(43.4)	35.4	16.7	(18.6)	(37.7)	(73.2)	118.3
Normalized profit growth	4.0	13.6	39.5	14.8	28.5	(38.3)	24.6	10.5	(8.6)	(66.8)	(67.1)	344.3

Source: KGI Securities Research

## Balance Sheet

As of 31 Dec (Bt mn)	2020	2021	2022F	2023F	2024F
<b>Total Assets</b>	<b>256,656</b>	<b>270,379</b>	<b>287,935</b>	<b>302,725</b>	<b>292,220</b>
<b>Current Assets</b>	<b>43,454</b>	<b>45,490</b>	<b>54,287</b>	<b>41,943</b>	<b>36,893</b>
Cash & ST Investments	20,289	13,793	13,837	4,264	3,165
Inventories	6,253	6,938	8,906	8,286	7,801
Accounts Receivable	11,028	16,590	21,445	19,952	18,784
Others	5,884	8,170	10,100	9,441	7,143
<b>Non-current Assets</b>	<b>209,715</b>	<b>221,812</b>	<b>230,416</b>	<b>257,389</b>	<b>251,765</b>
LT Investments	11,165	28,723	29,954	32,539	33,108
Net fixed Assets	99,978	95,581	98,404	124,486	123,602
Others	98,572	97,508	102,059	100,364	95,055
<b>Total Liabilities</b>	<b>144,789</b>	<b>152,632</b>	<b>170,952</b>	<b>185,302</b>	<b>173,089</b>
<b>Current Liabilities</b>	<b>22,063</b>	<b>23,036</b>	<b>20,707</b>	<b>20,394</b>	<b>27,856</b>
Accounts Payable	3,952	6,407	8,906	8,286	10,401
ST Borrowings	0	0	0	0	0
Others	18,112	16,629	11,801	12,108	17,455
<b>Long-term Liabilities</b>	<b>122,726</b>	<b>129,595</b>	<b>150,245</b>	<b>164,908</b>	<b>145,234</b>
Long-term Debts	92,321	92,511	107,342	124,378	106,560
Others	30,405	37,084	42,903	40,530	38,673
<b>Shareholders' Equity</b>	<b>111,867</b>	<b>117,748</b>	<b>116,984</b>	<b>117,424</b>	<b>119,131</b>
Common Stock	2,820	2,820	2,820	2,820	2,820
Capital Surplus	83,485	83,485	70,176	70,176	70,176
Retained Earnings	18,795	23,994	22,636	22,428	23,298
Preferred Stock	0	0	0	0	0

Source: KGI Securities Research

## Key Ratios

Year to 31 Dec	2020	2021	2022F	2023F	2024F
<b>Growth (% YoY)</b>					
Sales	4.5	7.6	32.2	(7.0)	(5.9)
OP	23.0	(9.0)	(40.7)	3.9	19.4
EBITDA	23.0	(2.9)	(21.2)	2.3	8.8
NP	84.9	(2.5)	(58.8)	42.9	28.3
Normalized Profit	84.5	(13.7)	(48.5)	54.5	18.2
EPS	84.9	(2.5)	(58.8)	42.9	28.3
Normalized EPS	84.5	(13.7)	(48.5)	54.5	18.2
<b>Profitability (%)</b>					
Gross Margin	18.9	14.9	7.3	9.4	11.7
Operating Margin	18.1	15.3	6.9	7.7	9.7
EBITDA Margin	30.6	27.6	16.5	18.1	20.9
Net Profit Margin	10.8	9.8	3.0	4.7	6.4
ROAA	2.9	2.7	1.0	1.4	1.9
ROAE	6.7	6.2	2.6	3.7	4.6
<b>Stability</b>					
Gross Debt/Equity (%)	1.3	1.3	1.5	1.6	1.5
Net Debt/Equity (%)	0.8	0.7	0.8	1.0	0.9
Interest Coverage (x)	3.4	3.3	2.2	2.8	2.9
Interest & ST Debt Coverage (x)	3.4	3.3	2.2	2.8	2.9
Cash Flow Interest Coverage (x)	5.2	4.2	2.7	4.4	6.1
Cash Flow/Interest & ST Debt	5.2	4.2	2.7	4.4	6.1
Current Ratio (x)	2.0	2.0	2.6	2.1	1.3
Quick Ratio (x)	1.7	1.7	2.2	1.7	1.0
Net Debt (Bt mn)	84,025	87,994	95,994	123,078	109,591
<b>Per Share Data (Bt)</b>					
EPS	2.7	2.6	1.1	1.5	2.0
Normalized EPS	3.2	2.7	1.4	2.2	2.6
CFPS	7.4	5.7	3.7	5.4	9.1
BVPS	39.7	41.8	41.5	41.6	42.2
SPS	24.7	26.6	35.1	32.7	30.7
EBITDA/Share	7.6	7.3	5.8	5.9	6.4
DPS	1.5	1.5	1.6	1.6	1.7
<b>Activity</b>					
Asset Turnover (x)	0.3	0.3	0.3	0.3	0.3
Days Receivables	57.9	80.9	79.1	79.1	79.1
Days Inventory	40.4	39.7	35.4	36.2	37.2
Days Payable	25.6	36.7	35.4	36.2	49.6
Cash Cycle	72.7	83.9	79.1	79.1	66.7
<b>Keys driver</b>					
Effective capacity (MW)	4,752	5,703	6,272	7,072	7,122

Source: KGI Securities Research

## Profit & Loss

Year to 31 Dec (Bt mn)	2020	2021	2022F	2023F	2024F
<b>Revenue</b>	<b>69,578</b>	<b>74,874</b>	<b>98,954</b>	<b>92,066</b>	<b>86,675</b>
Cost of Goods Sold	(56,448)	(63,736)	(91,760)	(83,432)	(76,572)
<b>Gross Profit</b>	<b>13,129</b>	<b>11,138</b>	<b>7,194</b>	<b>8,634</b>	<b>10,103</b>
Operating Expenses	(1,951)	(2,963)	(1,979)	(2,118)	(2,167)
Other Incomes	1,405	3,275	1,577	538	484
<b>Operating Profit</b>	<b>12,583</b>	<b>11,449</b>	<b>6,792</b>	<b>7,054</b>	<b>8,420</b>
Depreciation of fixed asset	(8,706)	(9,232)	(9,512)	(9,627)	(9,726)
<b>Operating EBITDA</b>	<b>21,290</b>	<b>20,681</b>	<b>16,304</b>	<b>16,680</b>	<b>18,146</b>
<b>Non-Operating Income</b>	<b>(1)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Interest Income	0	0	0	0	0
Other Non-op Income	(1)	0	0	0	0
<b>Non-Operating Expenses</b>	<b>(4,024)</b>	<b>(3,953)</b>	<b>(3,788)</b>	<b>(3,441)</b>	<b>(4,220)</b>
Interest Expenses	(4,024)	(3,860)	(3,788)	(3,441)	(4,220)
Other Non-op Expenses	0	(93)	0	0	0
<b>Equity Income/(Loss)</b>	<b>924</b>	<b>1,536</b>	<b>1,547</b>	<b>2,494</b>	<b>3,704</b>
<b>Pre-tax Profit</b>	<b>9,483</b>	<b>9,032</b>	<b>4,550</b>	<b>6,107</b>	<b>7,905</b>
Current Taxation	(993)	(1,192)	(944)	(1,155)	(1,545)
Minorities	(982)	(522)	(594)	(648)	(837)
Extraordinary items	0	0	0	0	0
<b>Net Profit</b>	<b>7,508</b>	<b>7,319</b>	<b>3,013</b>	<b>4,304</b>	<b>5,523</b>
<b>Normalized Profit</b>	<b>8,963</b>	<b>7,737</b>	<b>3,983</b>	<b>6,154</b>	<b>7,273</b>
EPS (Bt)	2.66	2.60	1.07	1.53	1.96
Normalized EPS (Bt)	3.18	2.74	1.41	2.18	2.58

Source: KGI Securities Research

## Cash Flow

Year to 31 Dec (Bt mn)	2020	2021	2022F	2023F	2024F
<b>Operating Cash Flow</b>	<b>20,857</b>	<b>16,109</b>	<b>10,393</b>	<b>15,239</b>	<b>25,765</b>
Net Profit	7,508	9,032	3,013	4,304	5,523
Depreciation & Amortization	8,706	9,232	9,512	9,627	9,726
Change in Working Capital	3,132	(2,636)	(3,028)	1,305	11,634
Others	1,511	481	897	4	(1,117)
<b>Investment Cash Flow</b>	<b>(7,370)</b>	<b>(19,610)</b>	<b>(14,617)</b>	<b>(38,459)</b>	<b>(8,463)</b>
Net CAPEX	(2,000)	(25,807)	(12,335)	(35,708)	(8,842)
Change in LT Investment	2,736	(16,535)	(1,385)	(2,747)	(738)
Change in Other Assets	(8,106)	22,732	(897)	(4)	1,117
<b>Free Cash Flow</b>	<b>13,486</b>	<b>(3,501)</b>	<b>(4,224)</b>	<b>(23,220)</b>	<b>17,302</b>
<b>Financing Cash Flow</b>	<b>(11,809)</b>	<b>(2,724)</b>	<b>4,268</b>	<b>13,647</b>	<b>(18,401)</b>
Change in Share Capital	0	0	0	0	0
Net Change in Debt	(6,628)	18,664	(9,337)	18,536	(9,586)
Change in Other LT Liab.	(5,181)	(21,388)	13,605	(4,889)	(8,815)
<b>Net Cash Flow</b>	<b>1,678</b>	<b>(6,225)</b>	<b>45</b>	<b>(9,573)</b>	<b>(1,099)</b>

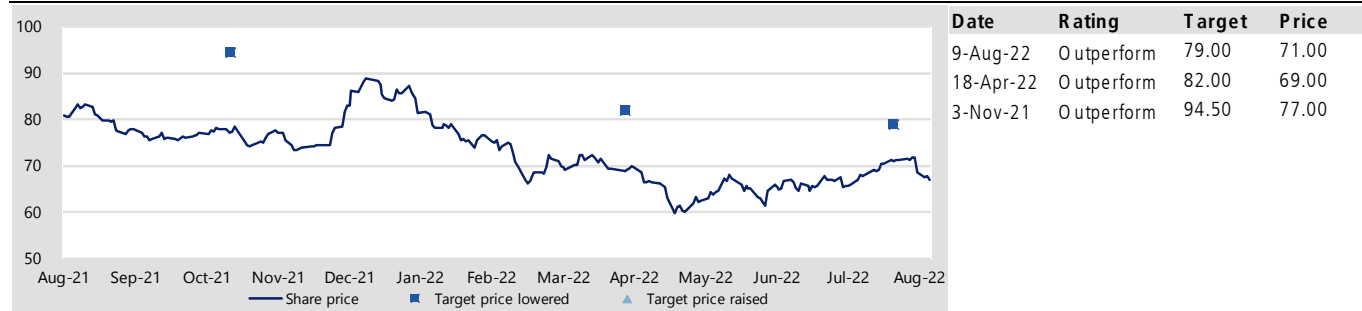
Source: KGI Securities Research

## Rates of Return on Invested Capital

Year	1- $\frac{\text{COGS}}{\text{Revenue}}$	+ $\frac{\text{Depreciation}}{\text{Revenue}}$	+ $\frac{\text{Operating Exp.}}{\text{Revenue}}$	= Operating Margin
2019	72.1%	10.6%	4.7%	12.6%
2020	68.6%	12.5%	4.8%	14.0%
2021	72.8%	12.3%	8.3%	6.5%
2022F	83.1%	9.6%	3.6%	3.7%
2023F	80.2%	10.5%	2.9%	6.5%
Year	1/ $\frac{\text{Working Capital}}{\text{Revenue}}$	+ $\frac{\text{Net PPE}}{\text{Revenue}}$	+ $\frac{\text{Other Assets}}{\text{Revenue}}$	= Capital Turnover
2019	0.1	1.5	2.3	0.3
2020	0.0	1.4	2.3	0.3
2021	0.0	1.3	2.3	0.3
2022F	0.0	1.0	1.9	0.3
2023F	0.0	1.4	1.9	0.3
Year	Operating Margin	x Capital Turnover	x Cash Tax Rate	= After-tax Return on Inv. Capital
2019	12.6%	0.3	4.0%	0.1%
2020	14.0%	0.3	10.5%	0.4%
2021	6.5%	0.3	13.2%	0.2%
2022F	3.7%	0.3	20.7%	0.3%
2023F	6.5%	0.3	18.9%	0.4%

Source: KGI Securities Research

## Global Power Synergy – Recommendation &amp; target price history



Source: KGI Securities Research



# Corporate Governance Report of Thai Listed Companies



## Companies with Excellent CG Scoring

Stock	Company name	Stock	Company name	Stock	Company name
AAV	ASIA AVIATION	EGCO	ELECTRICITY GENERATING	PTTEP	PTT EXPLORATION AND PRODUCTION
ADVANC	ADVANCED INFO SERVICE	GFPT	GFPT	PTTGC	PTT GLOBAL CHEMICAL
AMA	AMA MARINE	GGC	GLOBAL GREEN CHEMICALS	PYLON	PYLON
AMATA	AMATA CORPORATION	GPSC	GLOBAL POWER SYNERGY	QH	QUALITY HOUSES
ANAN	ANANDA DEVELOPMENT	HANA	HANA MICROELECTRONICS	RATCH	RATCHABURI ELECTRICITY GENERATING HOLDING
AOT	AIRPORTS OF THAILAND	HMPRO	HOME PRODUCT CENTER	RS	RS
AP	ASIAN PROPERTY DEVELOPMENT	INTUCH	SHIN CORPORATION	SCB	THE SIAM COMMERCIAL BANK
BANPU	BANPU	IRPC	IRPC	SCC	THE SIAM CEMENT
BCP	THE BANGCHAK PETROLEUM	IVL	INDORAMA VENTURES	SCCC	SIAM CITY CEMENT
BCPG	BCPG	KBANK	KASIKORNBANK	SEAFECO	SEAFECO
BDMS	BANGKOK DUSIT MEDICAL SERVICES	KCE	KCE ELECTRONICS	SMPC	SAHAMITR PRESSURE CONTAINER
BEC	BEC WORLD	KKP	KIATNAKIN BANK	SPALI	SUPALAI
BEM	BANGKOK EXPRESSWAY AND METRO	KTB	KRUNG THAI BANK	SPRC	STAR PETROLEUM REFINING
BGRIM	B. GRIMM POWER	KTC	KRUNGTHAI CARD	SVI	SVI
BPP	BANPU POWER	LH	LAND AND HOUSES	TACC	T.A.C. CONSUMER
BTS	BTS GROUP HOLDINGS	LPN	L.P.N. DEVELOPMENT	TCAP	THANACHART CAPITAL
CENDEL	CENTRAL PLAZA HOTEL	MAKRO	SIAM MAKRO	THCOM	THAICOM
CK	CH. KARNCHANG	MBK	MBK	TISCO	TISCO FINANCIAL GROUP
CKP	CK POWER	MINT	MINOR INTERNATIONAL	TOP	THAI OIL
CPALL	CP ALL	MTC	MUANGTHAI CAPITAL	TRUE	TRUE CORPORATION
CPF	CHAROEN POKPHAND FOODS	PLANB	PLAN B MEDIA	TTB	TMBTHANACHART BANK
CPN	CENTRAL PATTANA	PSH	PRUKSA HOLDING	VGI	VGI GLOBAL MEDIA
DELTA	DELTA ELECTRONICS (THAILAND)	PTG	PTG ENERGY	WHA	WHA CORPORATION
DTAC	TOTAL ACCESS COMMUNICATION	PTT	PTT	WHAUP	



## Companies with Very Good CG Scoring

Stock	Company name	Stock	Company name	Stock	Company name
BAM	BANGKOK COMMERCIAL ASSET MANAGEMENT	GULF	GULF ENERGY DEVELOPMENT	SAPPE	SAPPE
BBL	BANGKOK BANK	JMT	JMT NETWORK SERVICES	SAWAD	SRI SAWAD POWER 1979
CBG	CARABAO GROUP	LPH	LADPRAO GENERAL HOSPITAL	SINGER	SINGER THAILAND
CHG	CHULARAT HOSPITAL	M	MK RESTAURANT GROUP	SPA	SIAM WELLNESS GROUP
COM7	COM7	MAJOR	MAJOR CINEPLEX GROUP	TFG	THAIFOODS GROUP
DOHOME	DOHOME	MEGA	MEGA LIFESCIENCES	TKN	TAOKAENOI FOOD & MARKETING
ERW	THE ERWAN GROUP	NETBAY	NETBAY	ZEN	ZEN CORPORATION GROUP
GLOBAL	SIAM GLOBAL HOUSE	OSP	OSOTSPA		



## Companies with Good CG Scoring

Stock	Company name	Stock	Company name	Stock	Company name
BCH	BANGKOK CHAIN HOSPITAL	ESSO	ESSO (THAILAND)	SF	SIAM FUTURE DEVELOPMENT
BH	BUMRUNGRAD HOSPITAL	HUMAN	HUMANICA	SISB	SISB
EKH	EKACHAI MEDICAL CARE	RBF	R&B FOOD SUPPLY	TPCH	TPC POWER HOLDING

## Companies classified Not in the three highest score groups

Stock	Company name	Stock	Company name	Stock	Company name
IIG	I&I GROUP	OR	PTT OIL AND RETAIL BUSINESS	STGT	SRI TRANG GLOVES (THAILAND)
KEX	KERRY EXPRESS (THAILAND)	STEC	SINO-THAI ENGINEERING AND CONSTRUCTION		

Source: www.thai-iod.com

**Disclaimer:** The disclosure of the survey result of the Thai Institute of Directors Association ("IOD") regarding corporate governance is made pursuant to the policy of the Office of the Securities and Exchange Commission. The survey of the IOD is based on the information of a company listed on the Stock Exchange of Thailand and the Market for Alternative Investment disclosed to the public and able to be accessed by a general public investor. The result, therefore, is from the perspective of a third party. It is not an assessment of operation and is not based on inside information. The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey result may be changed after that date or when there is any change to the relevant information. Nevertheless, KGI Securities (Thailand) Public Company Limited (KGI) does not confirm, verify, or certify the accuracy and completeness of such survey result.

## Anti-corruption Progress Indicator

### Level 5: Extended

Stock	Company name	Stock	Company name	Stock	Company name
ADVANC	ADVANCED INFO SERVICE	GLOBAL	SIAM GLOBAL HOUSE	QH	QUALITY HOUSES
ANAN	ANANDA DEVELOPMENT	GPSC	GLOBAL POWER SYNERGY	RATCH	RATCHABURI ELECTRICITY GENERATING HOLDING
BBL	BANGKOK BANK	HMPRO	HOME PRODUCT CENTER	ROBINS	ROBINSON DEPARTMENT STORE
BCH	BANGKOK CHAIN HOSPITAL	IRPC	IRPC	SCC	THE SIAM CEMENT
BDMS	BANGKOK DUSIT MEDICAL SERVICES	KBANK	KASIKORN BANK	SIRI	SANSIRI
BIGC	BIG C SUPERCENTER	KCE	KCE ELECTRONICS	SPALI	SUPALAI
CK	CH. KARNCHANG	KKP	KIATNAKIN BANK	STEC	SINO-THAI ENGINEERING AND CONSTRUCTION
DCC	DYNASTY CERAMIC	KTG	KRUNG THAI BANK	TCAP	THANACHART CAPITAL
DELTA	DELTA ELECTRONICS (THAILAND)	LPH	LADPRAO GENERAL HOSPITAL	TISCO	TISCO FINANCIAL GROUP
DRT	DIAMOND ROOFING TILES	PACE	PACE DEVELOPMENT CORPORATION	TMT	THAI METAL TRADE
EGCO	ELECTRICITY GENERATING	PTT	PTT	TOP	THAI OIL
GFPT	GFPT	PTTGC	PTT GLOBAL CHEMICAL		

### Level 4: Certified

Stock	Company name	Stock	Company name	Stock	Company name
AAV	ASIA AVIATION	ERW	THE ERWAN GROUP	SAPPE	SAPPE
AP	ASIAN PROPERTY DEVELOPMENT	GLOW	GLOW ENERGY	SAWAD	SRI SAWAD POWER 1979
BA	BANGKOK AIRWAYS	GUNKUL	GUNKUL ENGINEERING	SCB	THE SIAM COMMERCIAL BANK
BANPU	BANPU	ILINK	INTERLINK COMMUNICATION	SCN	SCAN INTER
BCP	THE BANGCHAK PETROLEUM	KTC	KRUNGTHAI CARD	SEAFECO	SEAFECO
BH	BUMRUNGRAD HOSPITAL	LH	LAND AND HOUSES	SVI	SVI
BJCHI	BJC HEAVY INDUSTRIES	LPN	L.P.N. DEVELOPMENT	TASCO	TIPCO ASPHALT
CBG	CARABAO GROUP	MAKRO	SIAM MAKRO	TKN	TAOKAENOI FOOD & MARKETING
CENDEL	CENTRAL PLAZA HOTEL	MALEE	MALEE SAMPRAN	TMB	TMB BANK
CHG	CHULARAT HOSPITAL	MINT	MINOR INTERNATIONAL	TRT	TIRATHAI
CKP	CK POWER	MODERN	MODERNFORM GROUP	TRUE	TRUE CORPORATION
CPF	CHAROEN POKPHAND FOODS	NOK	NOK AIRLINES	TVO	THAI VEGETABLE OIL
CPN	CENTRAL PATTANA	PTTEP	PTT EXPLORATION AND PRODUCTION		
DTAC	TOTAL ACCESS COMMUNICATION	PYLON	PYLON		

### Level 3: Established

Stock	Company name	Stock	Company name	Stock	Company name
BEM	BANGKOK EXPRESSWAY AND METRO	MTLS	MUANGTHAI LEASING	SPRC	STAR PETROLEUM REFINING
CPALL	CP ALL	SCI	SCI ELECTRIC		

### No progress

Stock	Company name	Stock	Company name	Stock	Company name
AOT	AIRPORTS OF THAILAND	BPP	BANPU POWER	FN	FN FACTORY OUTLET
BCPG	BCPG	BTS	BTS GROUP HOLDINGS	TPCH	TPC POWER HOLDING

Source: www.cgthailand.org

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



## KGI Locations

<b>China</b>	Shanghai	Room 2703B-2704, Tower A , Shanghai Dawning Centre,500 Hongbaoshi Road Shanghai, PRC 201103
	Shenzhen	Room 24D1, 24/F, A Unit, Zhen Ye Building, 2014 Bao'annan Road, Shenzhen, PRC 518008
<b>Taiwan</b>	Taipei	700 Mingshui Road, Taipei, Taiwan Telephone 886.2.2181.8888 · Facsimile 886.2.8501.1691
<b>Hong Kong</b>		41/F Central Plaza, 18 Harbour Road, Wanchai, Hong Kong Telephone 852.2878.6888 Facsimile 852.2878.6800
<b>Thailand</b>	Bangkok	8th - 11th floors, Asia Centre Building 173 South Sathorn Road, Bangkok 10120, Thailand Telephone 66.2658.8888 Facsimile 66.2658.8014
<b>Singapore</b>		4 Shenton Way #13-01 SGX Centre 2 Singapore 068807 Telephone 65.6202.1188 Facsimile 65.6534.4826

## KGI's Ratings

Rating	Definition
Outperform (OP)	The stock's excess return over the next twelve months is ranked in the top 40% of KGI's coverage universe in the related market (e.g. Taiwan)..
Neutral (N)	The stock's excess return over the next twelve months is ranked in the range between the top 40% and the bottom 40% of KGI's coverage universe in the related market (e.g. Taiwan)
Under perform (U)	The stock's excess return over the next twelve months is ranked in the bottom 40% of KGI's coverage universe in the related market (e.g. Taiwan).
Not Rated (NR)	The stock is not rated by KGI.
Restricted (R)	KGI policy and/or applicable law regulations preclude certain types of communications, including an investment recommendation, during the course of KGI's engagement in an investment banking transaction and in certain other circumstances.  <i>Excess return = 12M target price/current price-</i>
Note	When an analyst publishes a new report on a covered stock, we rank the stock's excess return with those of other stocks in KGI's coverage universe in the related market. We will assign a rating based on its ranking. If an analyst does not publish a new report on a covered stock, its rating will not be changed automatically.

## Disclaimer

KGI Securities (Thailand) Plc. ( "The Company" ) disclaims all warranties with regards to all information contained herein. In no event shall the Company be liable for any direct, indirect or any damages whatsoever resulting from loss of income or profits, arising by utilization and reliance on the information herein. All information hereunder does not constitute a solicitation to buy or sell any securities but constitutes our sole judgment as of this date and are subject to change without notice.