

Gulf Energy Development GULF

Gulf Energy Development
Public Company Limited

Bloomberg
Reuters

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4Q23: Core profit still solid

4Q23 net profit was Bt4.7bn, up 42% QoQ on FX gain, with core profit flat QoQ and up 17% YoY. 2023 net profit was Bt14.9bn (+30%), with core profit of Bt15.6bn (+29%). 4Q23 earnings were fueled by a new operating unit for the IPP Gulf PD, but this was offset by seasonally lower sales to industrial customers. Equity income shot up 57% YoY and QoQ on contribution from INTUCH. We expect 1Q24 profit to improve QoQ when industrial electricity demand returns after low season in 4Q23, plus the startup of another unit for Gulf PD in March. We stay Outperform with TP of Bt63 on improving earnings from additional operating capacity and higher profit sharing (INTUCH and THCOM). 2023 dividend is Bt0.88/share (XD Feb 28), 69% payout, up from 62% in 2022.

Conventional power plant sales volume flat QoQ despite new IPP unit. Revenue from gas power plants rose 11% YoY on greater IPP operating capacity (Gulf PD). The first two units started up in March and Oct 2023. This backed a 4.5% rise in electricity sales volume to EGAT (QoQ was down 3.7% on lower electricity demand). Despite higher electricity sales from the second unit, revenue from the gas power plant was flat QoQ on a seasonal drop in demand for industrial users, with electricity volume falling 6.4% QoQ and tariff down 11.2% QoQ due to lower Ft rate.

Revenue from renewable energy boosted by a new project. Revenue from renewable power plants (excluding BKR2) rose 32.3% YoY and 19.2% QoQ, led by the solar rooftop business (under GULF1), revenue from construction services for industrial users and waste management at the CMWTE project. Equity committed capacity of renewable power grew to 4,486MW (end-Dec 2023) from 565MW (end-Feb 2023) after signing more PPAs for hydro power in Laos and solar projects in Thailand plus the acquisition of an offshore wind farm in the UK. These projects will gradually commence operations over 2024-2033.

Profit sharing from associates and JV up QoQ. Overall profit contribution from associates and JVs (including FX gain of Bt750mn) increased 56.6% YoY and 56.9% QoQ. Stripping out FX impact, core profit sharing rose 100.3% YoY and 14.4% QoQ, mostly from INTUCH (+82% YoY, +9% QoQ). Jackson Generation in the US also recorded a 78% QoQ jump in profit, though this was offset somewhat by unrealized losses on derivatives. Contribution from other JVs slid QoQ on seasonality.

Core profit expected to rise QoQ in 1Q24 on new IPP capacity. In 1Q24, another IPP, GPD, with total capacity of 2,650MW, is expected to push core profit up. The third unit of this power plant (662.5MW) will start up in Mar 2024 after the first two units started up in 2023. Contribution from Jackson Generation will also increase QoQ due to higher demand, which will boost electricity tariff in the US. The stability of INTUCH will continue to support earnings at Bt5bn± per annum. We stay positive on the solidity of GULF's earnings and our DCF-based TP of Bt63/share.

Key risks: 1) Lower than expected investment return on new projects, but GULF's excellent track record in bringing projects in on time and on budget minimizes this risk, 2) SPP electricity and steam sales to industrial customers, exposed to a poor economy and fuel costs, and weather-related risk at renewable power projects.

Forecasts and valuation

Year to 31 Dec	Unit	2022	2023	2024F	2025F	2026F
Revenue	(Btmn)	94,151	114,054	136,067	144,870	166,994
EBITDA	(Btmn)	22,473	25,195	31,725	35,177	44,496
Core profit	(Btmn)	12,045	15,666	20,042	25,043	30,865
Reported profit	(Btmn)	11,418	14,858	20,042	25,043	30,865
Core EPS	(Bt)	1.03	1.34	1.71	2.13	2.63
DPS	(Bt)	0.60	0.88	1.02	1.28	1.58
P/E, core	(x)	42.1	32.4	25.3	20.3	16.4
EPS growth, core	(%)	37.7	30.1	27.9	25.0	23.2
P/BV, core	(x)	4.6	4.4	4.0	3.7	3.3
ROE	(%)	11.6	13.8	16.6	19.0	21.4
Dividend yield	(%)	1.4	2.0	2.4	3.0	3.7
EV/EBITDA	(x)	31.9	29.8	23.5	20.7	15.6

Source: InnovestX Research

See the end of this report for disclaimer

Tactical: OUTPERFORM (3-month)

Stock data

Last close (Feb 16) (Bt)	43.25
Target price (Bt)	63.00
Mkt cap (Btbn)	507.46
Mkt cap (US\$mn)	14,104

Beta	L
Mkt cap (%) SET	2.96
Sector % SET	21.26
Shares issued (mn)	11,733
Par value (Bt)	1.00
12-m high / low (Bt)	54.8 / 41.5
Avg. daily 6m (US\$mn)	16.53
Foreign limit / actual (%)	49 / 35.79
Free float (%)	26.1
Dividend policy (%)	≥ 30

Share performance

(%)	1M	3M	12M
Absolute	(4.4)	(7.0)	(20.3)
Relative to SET	(4.8)	(5.0)	(5.0)

Source: SET, InnovestX Research

2023 Sustainability / 2022 ESG Score

SET ESG Ratings	AA
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ESG Bloomberg Rank in the sector

ESG Score Rank	10/67
Environmental Score Rank	5/67
Social Score Rank	6/67
Governance Score Rank	20/67

ESG comment

GULF's ESG score rank in 2022 was acceptable although the ESG disclosure score is below the sector average, based on Bloomberg assessment. Its continuous campaigns in ESG and good track record on community and employee occupational health and safety is well established.

Source: Bloomberg Finance L.P.

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Our view on ESG

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

ESG Disclosure Score

Bloomberg ESG Score	62.11 (2022)	CG Rating	DJSI	SETESG	SET ESG Ratings	
Rank in Sector	10/67	GULF	5	No	Yes	AA

Source: Thai Institute of Directors and SET

Environmental Issue (E)

- GULF aims to increase the proportion of renewables in its generation mix to ≥40% of total gross installed capacity by 2035. Currently, it has over 800MW committed renewable capacity.
- GULF has set a target to reduce its carbon intensity by 25% within 2030 from the base year of 2019 to align with the government's commitment to carbon neutrality and net zero GHG emissions.
- GULF's innovation in operations and several efficiency improvement projects have helped it reduce fuel consumption and carbon intensity, resulting in >Bt300mn operational cost savings.
- GULF was able to maintain its zero waste to landfill target since 2020 and in 2022 was also able to achieve its zero-waste incineration target.

Social Issue (S)

- GULF ensures that its employees are provided with a safe and healthy work environment. It achieved its Zero Accident target, having a lost-time injury frequency rate (LTIFR) of zero for both employees and contractors.
- The employee engagement rate was 77% and the satisfaction rate was 88%. GULF reported that it has not received any complaints regarding human rights violations. Its assessments have also determined that internal controls and human rights risk mitigation plans are adequate and appropriate at all sites.
- GULF has established a strategy to support local communities across the country under the "IMPACT" framework to create positive impacts and elevate quality of life for sustainable growth and development.

Governance Issue (G)

- GULF's board of directors consists of 12 directors, 8 non-executive directors (66.67% of the entire Board), 7 independent directors (58.33% of the entire Board), and an executive director. This includes four female members (33.33% of the entire board).
- GULF has been rated "Excellent" (5 stars) by the Thai Institute of Directors in 2022.
- We view GULF's management and governance as satisfactory, reflecting management's expertise and experience in the utilities sector, its transparency with stakeholders, and its independent board of directors.

ESG Disclosure Score

	2021	2022
ESG Disclosure Score	60.88	62.11
Environment	68.74	71.01
Emissions Reduction Initiatives	Yes	Yes
Climate Change Policy	Yes	Yes
GHG Scope 1	9,627	10,491
Biodiversity Policy	Yes	Yes
Energy Efficiency Policy	Yes	Yes
Total Energy Consumption	19.39	109.29
Social	47.97	49.40
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	—	—
Employee Turnover Pct	5.20	7.80
Governance	65.89	65.89
Size of the Board	10	12
Number of Board Meetings for the Year	16	14
Board Meeting Attendance Pct	98	99
Number of Female Executives	3	3
Number of Independent Directors	5	7

Source: Bloomberg Finance L.P.

Disclaimer

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

Financial statement

Profit and Loss Statement

FY December 31	Unit	2019	2020	2021	2022	2023	2024F	2025F	2026F
Total revenue	(Btmn)	30,040	32,863	47,467	94,151	114,054	136,067	144,870	166,994
Cost of goods sold	(Btmn)	22,791	23,702	34,388	74,711	92,022	106,609	111,974	124,260
Gross profit	(Btmn)	7,249	9,161	13,079	19,440	22,033	29,458	32,896	42,734
SG&A	(Btmn)	1,713	2,116	2,297	2,955	3,915	4,631	4,922	5,861
Other income	(Btmn)	304	543	2,516	925	2,896	2,954	2,974	2,994
Interest expense	(Btmn)	2,896	3,665	5,596	7,652	9,817	9,362	9,058	8,526
Pre-tax profit (before extra)	(Btmn)	2,943	3,923	7,703	9,759	11,197	18,420	21,890	31,341
Corporate tax	(Btmn)	(14)	107	347	1,344	658	2,315	970	3,431
Equity a/c profits	(Btmn)	3,205	2,462	2,886	6,321	10,284	9,271	9,790	9,710
Minority interests	(Btmn)	(2,280)	(1,862)	(1,497)	(2,691)	(5,157)	(5,334)	(5,667)	(6,754)
Core profit	(Btmn)	3,883	4,416	8,745	12,045	15,666	20,042	25,043	30,865
Extra-ordinary items	(Btmn)	1,003	(134)	(1,075)	(627)	(808)	0	0	0
Net Profit	(Btmn)	4,887	4,282	7,670	11,418	14,858	20,042	25,043	30,865
EBITDA	(Btmn)	8,273	11,020	18,287	22,473	25,195	31,725	35,177	44,496
Core EPS	(Btmn)	0.36	0.40	0.75	1.03	1.34	1.71	2.13	2.63
Net EPS	(Bt)	0.46	0.39	0.65	0.97	1.27	1.71	2.13	2.63
DPS	(Bt)	0.13	0.38	0.44	0.60	0.88	1.02	1.28	1.58

Balance Sheet

FY December 31	Unit	2019	2020	2021	2022	2023	2024F	2025F	2026F
Total current assets	(Btmn)	21,531	30,354	38,811	70,249	72,686	42,797	54,374	79,478
Total fixed assets	(Btmn)	112,747	215,226	323,863	347,923	386,828	391,662	390,079	366,438
Total assets	(Btmn)	134,278	245,581	362,674	418,172	459,514	434,459	444,454	445,916
Total loans	(Btmn)	77,161	141,718	223,564	250,565	284,849	246,961	238,950	224,931
Total current liabilities	(Btmn)	9,809	29,643	35,016	51,868	65,623	34,349	40,756	39,962
Total long-term liabilities	(Btmn)	75,429	143,858	220,148	230,502	249,787	241,776	227,757	215,491
Total liabilities	(Btmn)	85,238	173,501	255,165	282,370	315,410	276,125	268,514	255,453
Paid-up capital	(Btmn)	10,667	11,733	11,733	11,733	11,733	11,733	11,733	11,733
Total equity	(Btmn)	38,427	64,027	96,596	110,787	116,585	125,481	137,480	151,567
BVPS	(Bt)	3.60	5.46	8.23	9.44	9.94	10.69	11.72	12.92

Cash Flow Statement

FY December 31	Unit	2019	2020	2021	2022	2023	2024F	2025F	2026F
Core Profit	(Btmn)	3,883	4,416	8,745	12,045	15,666	20,042	25,043	30,865
Depreciation and amortization	(Btmn)	2,434	3,431	4,989	5,063	4,181	3,944	4,229	4,629
Operating cash flow	(Btmn)	8,043	10,566	14,023	11,106	18,291	32,590	38,570	64,024
Investing cash flow	(Btmn)	(14,317)	(70,410)	(78,206)	(25,036)	(34,400)	(17,781)	(12,937)	(12,913)
Financing cash flow	(Btmn)	2,221	63,101	68,128	33,277	15,628	(43,702)	(15,837)	(30,797)
Net cash flow	(Btmn)	(4,053)	3,256	3,945	19,347	(481)	(28,893)	9,796	20,314

Key Financial Ratios

FY December 31	Unit	2019	2020	2021	2022	2023	2024F	2025F	2026F
Gross margin	(%)	24.1	27.9	27.6	20.6	19.3	21.6	22.7	25.6
Operating margin	(%)	18.4	21.4	22.7	17.5	15.9	18.2	19.3	22.1
EBITDA margin	(%)	27.5	33.5	38.5	23.9	22.1	23.3	24.3	26.6
EBIT margin	(%)	19.4	23.1	28.0	18.5	18.4	20.4	21.4	23.9
Net profit margin	(%)	16.3	13.0	16.2	12.1	13.0	14.7	17.3	18.5
ROE	(%)	10.4	8.6	10.9	11.6	13.8	16.6	19.0	21.4
ROA	(%)	3.0	2.3	2.9	3.1	3.6	4.5	5.7	6.9
Net D/E	(x)	1.3	1.7	1.9	1.5	1.7	1.5	1.6	1.2
Interest coverage	(x)	2.9	3.0	3.3	2.9	2.6	3.4	3.9	5.2
Debt service coverage	(x)	1.4	0.5	0.7	0.6	0.5	1.4	1.3	1.7
Payout Ratio	(%)	28.4	97.3	67.3	61.7	69.5	59.7	60.0	60.1

Main Assumptions

FY December 31	Unit	2019	2020	2021	2022	2023	2024F	2025F	2026F
Gross installed capacity (period-end)	(MW)	5,919	6,409	7,875	9,572	12,420	15,167	16,534	16,813
Equity installed capacity (period-end)	(MW)	2,701	2,959	3,951	4,966	6,712	8,669	9,643	9,930
Electricity sales volume - EGAT	(GWh)	7,072	7,541	10,505	14,597	28,061	33,326	36,370	44,594
Electricity sales volume - IUs	(GWh)	1,923	1,914	2,238	2,376	2,334	2,381	2,381	2,381
Effective interest rate	(%)	3.97	3.35	3.12	3.30	3.80	3.80	3.80	3.80

Financial statement

Profit and Loss Statement

FY December 31	Unit	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23
Total revenue	(Btmn)	20,628	23,004	23,631	26,888	26,413	32,557	27,419	27,665
Cost of goods sold	(Btmn)	16,065	18,567	18,931	21,148	21,101	27,115	21,866	21,940
Gross profit	(Btmn)	4,562	4,437	4,700	5,740	5,311	5,442	5,553	5,726
SG&A	(Btmn)	551	639	643	1,121	742	926	832	1,415
Other income	(Btmn)	35	98	75	718	581	951	748	616
Interest expense	(Btmn)	1,473	1,864	2,036	2,279	2,124	2,416	2,582	2,695
Pre-tax profit	(Btmn)	2,573	2,032	2,096	3,058	3,027	3,051	2,888	2,231
Corporate tax	(Btmn)	448	146	572	178	186	203	229	39
Equity a/c profits	(Btmn)	1,790	1,451	569	2,511	2,089	1,754	2,507	3,933
Minority interests	(Btmn)	(701)	(179)	266	(2,077)	(1,342)	(1,007)	(913)	(1,896)
Core profit	(Btmn)	3,215	3,158	2,359	3,314	3,588	3,596	4,252	4,230
Extra-ordinary items	(Btmn)	180	(1,627)	(1,272)	2,092	262	(711)	(892)	532
Net Profit	(Btmn)	3,395	1,531	1,087	5,406	3,850	2,885	3,360	4,763
EBITDA	(Btmn)	5,291	5,138	5,409	6,635	6,104	6,468	6,573	6,050
Core EPS	(Btmn)	0.27	0.27	0.20	0.28	0.31	0.31	0.36	0.36
Net EPS	(Bt)	0.29	0.13	0.09	0.46	0.33	0.25	0.29	0.41

Balance Sheet

FY December 31	Unit	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23
Total current assets	(Btmn)	45,270	41,805	54,274	70,249	82,706	70,637	86,835	72,686
Total fixed assets	(Btmn)	336,923	346,444	367,346	347,923	367,912	378,815	389,874	386,828
Total assets	(Btmn)	382,193	388,249	421,621	418,172	450,619	449,453	476,710	459,514
Total loans	(Btmn)	234,320	240,070	263,728	250,565	275,022	275,319	294,090	284,849
Total current liabilities	(Btmn)	41,916	49,972	50,457	51,868	63,666	62,834	79,392	65,623
Total long-term liabilities	(Btmn)	223,729	219,946	248,753	230,502	247,513	249,898	253,061	249,787
Total liabilities	(Btmn)	265,645	269,918	299,210	282,370	311,180	312,732	332,454	315,410
Paid-up capital	(Btmn)	11,733	11,733	11,733	11,733	11,733	11,733	11,733	11,733
Total equity	(Btmn)	103,598	103,605	106,843	110,787	113,033	110,280	116,480	116,585
BVPS	(Bt)	8.83	8.83	9.11	9.44	9.63	9.40	9.93	9.94

Cash Flow Statement

FY December 31	Unit	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23
Core Profit	(Btmn)	3,215	3,158	2,359	3,314	3,588	3,596	4,252	4,230
Depreciation and amortization	(Btmn)	1,246	1,242	1,277	1,298	954	1,001	1,103	1,123
Operating cash flow	(Btmn)	3,588	3,146	6,056	(1,685)	5,401	1,341	7,556	3,991
Investing cash flow	(Btmn)	(14,240)	(1,749)	(13,617)	4,570	(21,036)	(806)	(3,922)	(8,635)
Financing cash flow	(Btmn)	9,230	(3,003)	18,687	8,363	22,815	(11,881)	13,641	(8,946)
Net cash flow	(Btmn)	(1,422)	(1,606)	11,127	11,248	7,180	(11,345)	17,275	(13,590)

Key Financial Ratios

FY December 31	Unit	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23
Gross margin	(%)	22.1	19.3	19.9	21.3	20.1	16.7	20.3	20.7
Operating margin	(%)	19.4	16.5	17.2	17.2	17.3	13.9	17.2	15.6
EBITDA margin	(%)	25.7	22.3	22.9	24.7	23.1	19.9	24.0	21.9
EBIT margin	(%)	19.6	16.9	17.5	19.8	19.5	16.8	19.9	17.8
Net profit margin	(%)	16.5	6.7	4.6	20.1	14.6	8.9	12.3	17.2
ROE	(%)	12.8	12.2	9.0	12.2	12.8	12.9	15.0	14.5
ROA	(%)	3.5	3.3	2.3	3.2	3.3	3.2	3.7	3.6
Net D/E	(x)	1.8	1.9	1.9	1.5	1.6	1.7	1.6	1.7
Interest coverage	(x)	3.6	2.8	2.7	2.9	2.9	2.7	2.5	2.2
Debt service coverage	(x)	0.7	0.5	0.7	0.7	0.5	0.5	0.4	0.5

Key Statistics

FY December 31	Unit	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23
Gross installed capacity (period-end)	(MW)	8,538	8,538	8,722	9,572	9,572	11,581	11,581	12,420
Equity installed capacity (period-end)	(MW)	4,415	4,415	4,509	4,966	4,966	6,088	6,088	6,712
Electricity sales volume - EGAT	(GWh)	3,559	4,635	2,735	3,668	4,399	8,201	7,542	7,918
Electricity sales volume - IUs	(GWh)	607	595	607	565	579	585	605	566
Effective interest rate	(%)	2.65	3.22	3.34	3.61	3.35	3.66	3.83	3.98

Highlights from analyst meeting

We attended the analyst meeting to update about GULF's business with the top management which remains positive about the company business outlook which is summarized below.

- Management expects the government to release the new Power Development Plan (PDP) in 2Q24 which will include a huge capacity of renewable power projects with total capacity of 30-40GW. This is the focus areas of GULF's investment over the next 10 years, in addition to the existing hydro power projects in Laos under development. GULF still targets to increase the proportion of renewable power to 40% by 2035 from only 8% currently.
- Management believes the government will adopt the Utility Green Tariff (UGT*) for the new renewable power projects with attractive tariff of Bt4.2-4.5/kWh. This could attract companies, especially those in developed countries and global brands with the policy from parent companies to buy electricity for renewable power producers.
- GULF also expects capacity of gas-fired power plants which will be retired during the new PDP timespan will be replaced by new plants by EGAT and private sector. This is another investment opportunity of GULF.
- Management updated that all projects under development still progress as planned and within the budget.
- GULF still opens for the divestment of existing assets, mainly in overseas markets, which do not have synergy with the current business. Management ensured that the divestment to provide some gains back to GULF.
- GULF's first cargo of imported LNG will arrive by the end of Feb'24 to supply to Hin Kong Power's first unit which will commence operation this year. The company will continue to lock more supply for long-term contracts and seek opportunities for spot LNG. Next step is to secure medium to long-term contracts of LNG to supply for the existing 5GW-IPP, if opportunity emerges to enhance the profit of its LNG business.
- GULF expects the digital exchange under Gulf Binance will gain at least 30% market share within two years after its debut in mid-Jan'24. Management is confident in Gulf Binance's competitive position, including the security of the platform (under SEC regulation), variety of tokens (120 currently) and competitive trading fee (10bp).

* Note: UGTs are optional programs in regulated electricity markets offered by utilities and approved by state public utility commissions. They allow larger commercial and industrial customers to buy bundled renewable electricity from a specific project through a special utility tariff rate. (www.epa.gov)

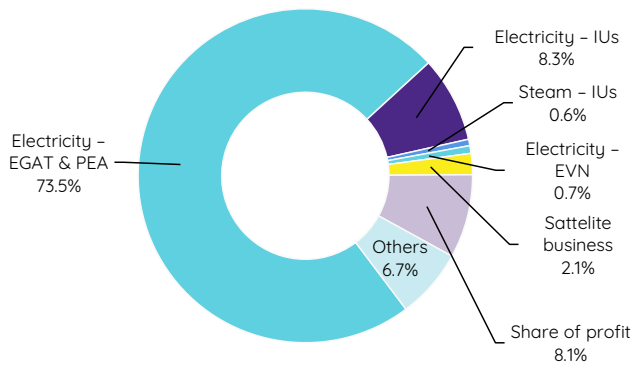
Figure 1: GULF - 4Q23 earnings review

	4Q22	3Q23	4Q23	%YoY	%QoQ	12M22	12M23	%YoY
P&L (Bt, mn)								
Total revenue	26,888	27,419	27,665	2.9	0.9	94,151	114,054	21.1
Gross profit	5,740	5,553	5,726	(0.3)	3.1	19,440	22,033	13.3
EBITDA	6,635	6,573	6,050	(8.8)	(8.0)	22,473	25,195	12.1
Profit before extra items	3,314	4,252	4,230	27.7	(0.5)	12,045	15,666	30.1
Net Profit	5,406	3,360	4,763	(11.9)	41.7	11,418	14,858	30.1
EPS (Bt)	0.46	0.29	0.41	(11.9)	41.7	0.97	1.27	30.1
B/S (Bt, mn)								
Total assets	418,172	476,710	459,514	9.9	(3.6)	418,172	459,514	9.9
Total liabilities	282,370	332,454	315,410	11.7	(5.1)	282,370	315,410	11.7
Total equity	135,802	144,256	144,104	6.1	(0.1)	135,802	144,104	6.1
BVPS (Bt)	9.44	9.93	9.94	5.2	0.1	9.44	9.94	5.2
Financial ratio (%)								
Gross margin (%)	21.3	20.3	20.7	(0.7)	0.4	20.6	19.3	(1.3)
EBITDA margin (%)	24.7	24.0	21.9	(2.8)	(2.1)	23.9	22.1	(1.8)
Net profit margin (%)	20.1	12.3	17.2	(2.9)	5.0	12.1	13.0	0.9
ROA (%)	3.2	3.7	3.6	0.5	(0.1)	2.9	3.4	0.5
ROE (%)	12.2	15.0	14.5	2.3	(0.5)	11.0	13.1	2.1
D/E (X)	2.1	2.3	2.2	10.9	(11.6)	2.1	2.2	10.9

Source: GULF and InnovestX Research

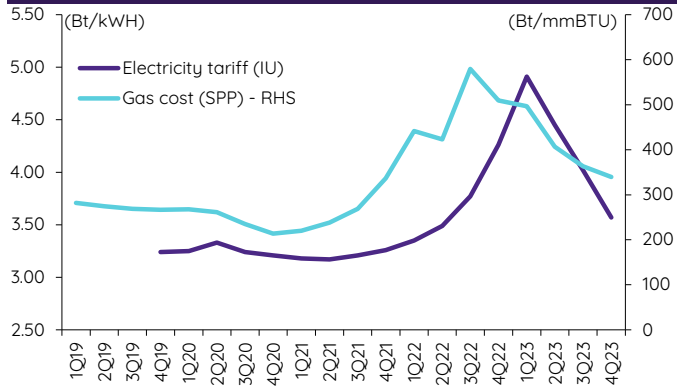
Appendix

Figure 2: Revenue breakdown (2023)



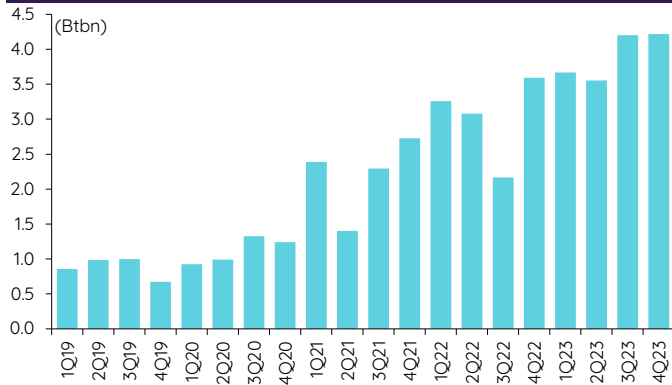
Source: GULF and InnovestX Research

Figure 3: Effective gas cost (SPP) vs. tariff to IU



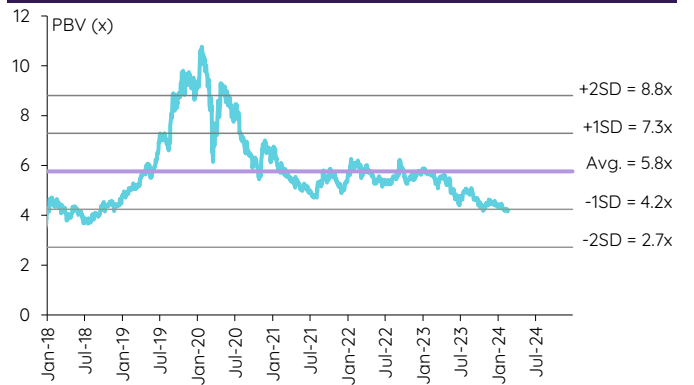
Source: GULF and InnovestX Research

Figure 4: Quarterly core profit



Source: GULF and InnovestX Research

Figure 5: GULF - PBV band



Source: InnovestX Research

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CG Rating 2023 Companies with CG Rating

Companies with Excellent CG Scoring

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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

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

Corporate Governance Report

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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 2022 to 31 October 2023) is publicized.

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

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

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

Anti-corruption Progress Indicator

Certified (ได้สัมฤทธิ์ผล)

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, BBDG, 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, HMPPRO, 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, SCC, SCCC, SCG, SCGP, SCM, SCN, SEAOL, SE-ED, SELIC, SENA, SGC, SGP, SIRI, SITHAI, SKR, SMIT, SMK, SMP, SNC, SNP, SORKON, SPACK, SPALI, SPC, SPI, SPRC, SRICHA, SSF, SSP, SSSC, SST, STA, STGT, STOWER, SUSCO, SVI, SYMC, SYNTEC, TAE, TAKUNI, TASC, 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 (ได้มาตรฐาน)

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, OTO, 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

24CS, 3K-BAT, A, A5, AAV, ABM, ACAP, ACC, ACG, ADD, ADVICE, AEONTS, AFC, AGE, AHC, AIT, AJA, AKR, AKS, ALL, ALLA, ALPHAX, ALUCON, AMARC, AMARIN, AMR, ANAN, ANI, AOT, APCO, APEX, APP, APURE, AQUA, ARIN, ARIP, ARROW, ASAP, ASEFA, ASIA, ASIMAR, ASN, ATP30, AU, AUCT, AURA, B52, BA, BBIK, BC, BCT, BDMS, BEAUTY, BEM, BGT, BH, BIG, BIOTEC, BIS, BIZ, BJC, BJCHI, BGD, 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, COCOBO, COLOR, COMAN, CPANEL, CPH, CPR, CPT, CRANE, CRD, CREDIT, CSP, CSR, CSS, CTW, CWT, D, DCON, DDD, DHOUSE, DITTO, DOD, DPAINT, DTCENT, DTCL, 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, GROUND, 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, JPARC, 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, NNCL, NOVA, NPK, NSL, NTSC, NTV, NUSA, NV, NVD, NYT, OHTL, ONEE, ORN, PACE, PACO, PAF, PCC, PEACE, PERM, PF, PHG, PICO, PIN, PJW, PLE, PLT, PMTA, POLAR, POMPU, 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, SPVI, SQ, SR, SRS, SSC, SSS, 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, THMUL, TIGER, TITL, TK, TKC, TLI, TM, TMC, TMI, TMW, TNIT, 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, WFX, WGE, WIN, WINDOW, WINMED, WINNER, WORK, WORLD, WP, YGG, YONG, ZAA

Explanations

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