EQUITY RESEARCH - COMPANY REPORT

B.GRIMM POWER BGRIM TB

Choking on gas before growth resumes

- We believe BGRIM's net profit will likely bottom in 2022 and rebound markedly in 2023-24.
- Thanks to the rising gas cost, we expect BGRIM's core net profit in 3Q22 to remain weak in the range of THB0.1b-THB0.2b.
- Maintain BUY but trim our SoTP-based TP to THB42.

Rise in Ft, SPP capacity, and efficiency are key

Despite our projected higher gas cost from THB430/mmbtu in 1H22 to THB480/mmbtu in 2H22 – to bring the average gas cost to THB456/mmbtu in 2022 before declining to THB410/mmbtu in 2023 and THB389/mmbtu in 2024 – we believe BGRIM's net profit will likely bottom in 2022 and rebound markedly in 2023-24. The key drivers would be the improving operational efficiency of its seven new SPPs, with five under SPP replacement PPAs, the higher projected electricity tariff driven by the higher fuel tariff (Ft) in 2H22-2024, and higher capacity growth, both organic (seven new SPPs) and from M&As.

2H22 earnings hit before strong 2023-24 net profit outlook

We now project BGRIM's net profit to drop by 62.6% y-y in 2022 due to the impact of the mismatch of the higher gas cost and the rising Ft, estimated to rise by 228% y-y in 2023 to THB3b and 21% y-y to THB3.6b in 2024. We project that the impact of a gas cost hike by THB236/mmbtu y-y to an average of THB456/mmbtu in 2022 would cost BGRIM up to THB4.3b in gas costs in 2022. Hence, we think BGRIM's net profit will bottom in 2022 before rebounding in 2023-24.

Expect weak 3Q22 results and a q-q improving 4Q22 outlook

Thanks to the rising gas cost, we expect BGRIM's core net profit in 3Q22 to remain weak in the range of THB0.1b-THB0.2b, flat q-q. The impact of the THB0.69/kWh Ft rise will affect BGRIM's selling prices for electricity sold to industrial users (IUs) only in Sep-22. However, in 4Q22, the full impact of the THB0.69/kWh Ft increase, which we estimate to add THB1.5b in revenue to BGRIM, should more than offset the projected THB40-50/mmbtu q-q increase in the gas cost, based on our estimate.

Top pick in SPP segment; TP trimmed to THB42

We cut our EPS forecasts for 2022-24 by 39-75% due to 1) our higher oil price assumptions by 57-60% to USD120/110/110 per bbl in 2022-24; 2) our higher gas cost estimates by 23.6-30.4% to reflect the higher pool gas price due to higher imports of spot LNG; and 3) higher average tariff assumptions by 2-14%. We trim our SoTP-based target price from THB44 to THB42, incorporating the impact of our EPS revisions and the valuation rollover to 2023. We believe BGRIM is a strong contender for growth on the mixed bag of global commodity prices, Thailand's electricity tariff hikes, and its endemic growth strategy.



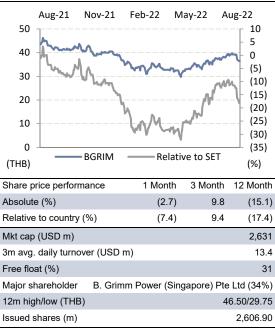
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TARGET PRICE	THB42.00
CLOSE	THB36.50
UP/DOWNSIDE	+15.1%
PRIOR TP	THB44.00
CHANGE IN TP	-4.5%
TP vs CONSENSUS	-2.3%

KEY STOCK DATA

YE Dec (THB m)	2021	2022E	2023E	2024E
Revenue	46,628	75,712	89,878	92,242
Net profit	2,276	913	3,000	3,632
EPS (THB)	0.87	0.35	1.15	1.39
vs Consensus (%)	-	(47.1)	(2.5)	(10.2)
EBITDA	12,160	11,163	16,136	18,365
Core net profit	2,440	913	3,000	3,632
Core EPS (THB)	0.94	0.35	1.15	1.39
Chg. In EPS est. (%)	-	(75.1)	(47.1)	(39.0)
EPS growth (%)	(6.8)	(62.6)	228.4	21.1
Core P/E (x)	39.0	104.2	31.7	26.2
Dividend yield (%)	1.2	1.5	2.7	2.7
EV/EBITDA (x)	14.3	16.8	12.5	11.8
Price/book (x)	3.2	3.2	3.0	2.9
Net debt/Equity (%)	166.4	193.3	200.6	204.6
ROE (%)	8.6	3.1	9.9	11.4



Sources: Bloomberg consensus; FSSIA estimates

PREPARED BY FSS INTERNATIONAL INVESTMENT ADVISORY SECURITIES CO LTD (FSSIA). ANALYST CERTIFICATION AND IMPORTANT DISCLOSURES CAN BE FOUND AT THE END OF THIS REPORT

Investment thesis

B.Grimm Power (BGRIM) is one of Thailand's small power producer (SPP) pioneers, providing a reliable source of electricity to industrial users (IUs). It has continued to expand its portfolio, with the number of its SPPs increasing from one in 1998 to 13 at end-2016 and 17 as of 1Q20, while equity capacity has risen from 85MW in 1998 to 974MW in 2016 and 1,996MW in 2019. Its solid operational efficiency and optimisation, as well as in-house development and maintenance services, have made BGRIM a reliable power supplier and generated solid returns for its shareholders.

With a superior SPP portfolio and solid capabilities in SPP development and operations, BGRIM plans to expand its capacity substantially. The company aims to increase its capacity to 7.2GW by 2025, up from 3.25GW as of 2021, and aims to increase its renewable energy and conventional power capacities via SPPs in domestic and overseas markets.

Company profile

BGRIM is a holding company investing in electricity generating businesses of small power plants with major gas-fired and solar farm power assets in Thailand, Laos, and Vietnam.

www.bgrimmpower.com

Catalysts

Higher utilisation rates at its power plants, rising demand for electricity in Thailand and Vietnam, and higher crude oil prices are all key potential earnings growth drivers.

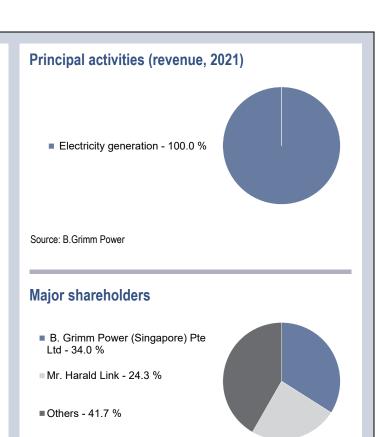
Risks to our call

The downside risks to our SoTP-based TP include 1) lowerthan-expected demand for electricity in Thailand; 2) a lower crude price; and 3) unplanned shutdowns of its SPPs.

Event calendar

Date Event Oct 2022 3Q22

3Q22 results announcement



Source: B.Grimm Power

Key assumptions

	2022E	2023E	2024E
Utilisation rate (%)	92	93	94
Dispatched power (GWh)	12,778	11,504	11,510
Oil price (USD/bbl)	120	110	110
Average tariff (THB/kWh)	3.99	3.74	4.05
Gas price (THB/mmbtu)	456	410	389

Source: FSSIA estimates

Earnings sensitivity

- Ceteris paribus, for every 1% increase in gas price, we estimate 2022 earnings would decline 1.15%, and vice versa.
- Ceteris paribus, for every 1% increase in interest rate, we estimate 2022 earnings would decline 1.2%, and vice versa.

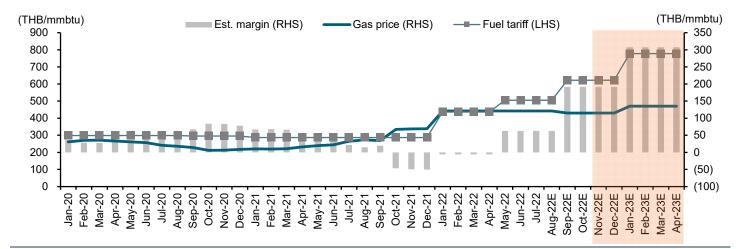
Source: FSSIA estimates



Choking on gas before growth resumes

In the past three quarters since 4Q21, BGRIM, as the largest small power producer (SPP) operator in Thailand, has significantly suffered from the sharp rise in the gas cost, which has already almost doubled y-y from THB220/mmbtu on average in 2021 to THB430/mmbtu in 1H22. Its gross margins for SPPs have plunged markedly from positive to deep negative territory since Oct-21, and just turned slightly positive since May-22 due to the government's hike in the Ft by THB0.4/kWh since Jan-22.

Exhibit 1: Gas price, fuel tariff, and BGRIM's estimated gross margins for SPPs



Sources: BGRIM; ERC; FSSIA estimates

Even the selling prices of BGRIM's electricity sold to IUs, which are directly linked to the national power grid price, have been lifted following the increase in the Ft by THB0.4/kWh in Jan-Aug 2022. The gas cost for BGRIM's SPPs is projected to rise further in 2H22-2023 due to the rising import volumes of spot LNG to supplant the gas supply shortfall from Erawan field, according to the Energy Policy and Planning Office (EPPO).

Following a three-year investment vacuum due to the "de-commissioning expenses" dispute, Erawan's gas production hit a record low at 185mmscfd in Jul-22. According to PTT Exploration and Production (PTTEP TB, BUY), the new operator of Erawan, the gas production of Erawan will only increase to 300mmscfd by end-2022 and 600mmscfd by end-2023, before reaching its contract volume of 800mmscfd by mid-2024.

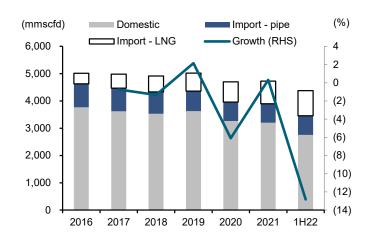
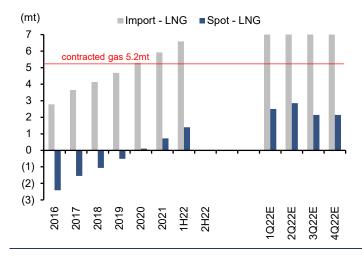


Exhibit 2: Thailand's gas supply breakdown

Source: EPPO

Exhibit 3: Imports of LNG

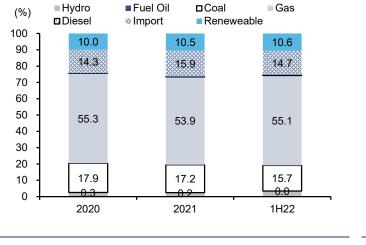


Source: EPPO



Although the Energy Regulatory Commission (ERC) plans to maximise electricity production from other fuels, including diesel, high sulphur fuel oil (HSFO), and hydropower plants, mostly imported from Laos, we believe Thailand still needs to import a significant amount of spot LNG in the range of 2mt and an additional 2.6mt of contract LNG in 2H22 to replace Erawan's gas shortfall.

Exhibit 4: Thailand's electricity production breakdown by power plant type



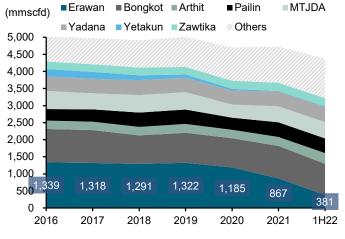


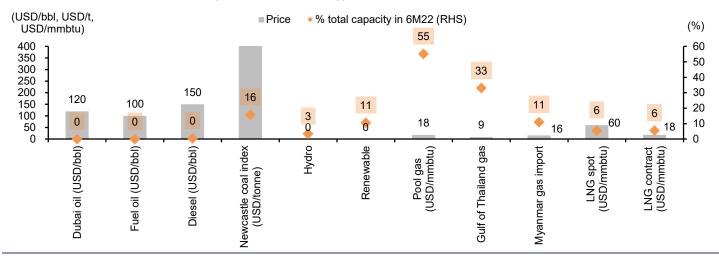
Exhibit 5: Thailand's gas production breakdown by field

Source: EPPO

Source: EPPO

As gas-fired capacity accounts for 55% of Thailand's total capacity as of 6M22, and spot LNG and contract LNG accounts for 6% of the total capacity, based on our estimate, we think the impact of the spike in the spot LNG price to USD56-60/mmbtu as of 24 Aug-22 and the contract LNG price – which is linked to the price of crude oil and the Henry Hub gas index – will be significant for the overall pool gas price and Thailand's electricity tariff in 2023.

Exhibit 6: Estimated cost of electricity production vs energy prices



Sources: EPPO; Bloomberg; FSSIA estimates

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We estimate that global spot LNG prices will rise toward their record highs in the coming winter, led by the spike in the spot LNG prices in the European market. The two benchmark indexes for spot LNG prices in the European market already hit record highs on 24 Aug-22 as investors and buyers rush to re-stock their gas inventories ahead of the coming winter to replace the Russian gas supplies.

Exhibit 7: LNG swap futures based on South East Asia price for Oct-22 (JKMV22) has spiked to its record high at USD66.3/mmbtu



Exhibit 8: Dutch TTF gas futures for Sep-22 (TGU22) hit a record high level at over €306/MWh before dropping to €292/MWh as of 24 Aug 2022



Source: Barchart.com

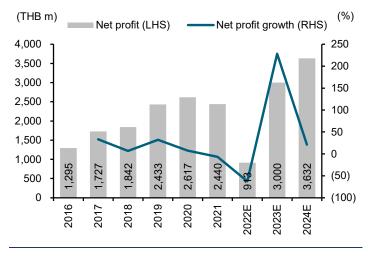
Source: Barchart.com

FINANSIA

Higher gas cost more than offset by higher Ft and operational efficiency

Despite our projected higher gas cost from THB430/mmbtu in 1H22 to THB480/mmbtu in 2H22 – to bring the average gas cost to THB456/mmbtu in 2022 before declining to THB410/mmbtu in 2023 and THB389/mmbtu in 2024 – we believe BGRIM's net profit will likely bottom in 2022 and rebound markedly in 2023-24.

The key drivers would be the improving operational efficiency of its seven new SPPs, with five under SPP replacement power purchase agreements (PPAs), the higher projected electricity tariff driven by the higher Ft in 2H22-2024, and higher capacity growth, both organic (seven new SPPs) and from M&As. We now project BGRIM's net profit to drop by 62.6% y-y in 2022 due to the impact of the mismatch of the higher gas cost and the rising Ft, estimated to rise by 228% y-y in 2023 to THB3b and 21% y-y to THB3.6b in 2024.





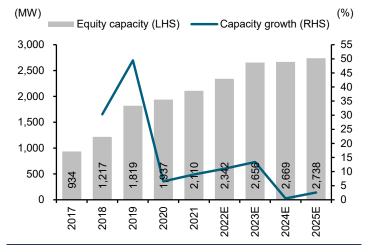


Exhibit 10: Equity capacity and equity capacity growth

Sources: BGRIM; FSSIA estimates

Three key catalysts to overcome the gas price hike. We project that the impact of a gas cost hike by THB236/mmbtu y-y to an average of THB456/mmbtu in 2022 would cost BGRIM up to THB4.3b in gas costs in 2022. Hence, we think BGRIM's net profit will bottom in 2022 before rebounding remarkably in 2023-24, driven by three key factors.

SPP replacements and two new SPPs. In the next six quarters, BGRIM is expected to start up a series of six new SPPs, with one SPP, BPLC1, already commencing its commercial operation date (COD) in July. BPLC1 and four more SPPs will all be under SPP replacement PPAs (SPPR). These five SPPRs will use new turbine technology that will save on gas costs by up to 6-10%, based on management's guidance.

Exhibit 11: SPPs with SPP replacement PPAs

Project		Existing	installed	capacity	Contracted heat rate	New installed capacity				Contracted heat rate	SPP replacement PPA
	stake	Power	Steam	Equity capacity		stake	Power	Steam	Equity capacity		COD
	(%)	(MW)	(tph)	(MW)	(mmBTU/kWh)	(%)	(MW)	(tph)	(MW)	(mmBTU/kW)	
BPLC1	100	103	46	103	8,600	100	140	46	140	7,409	Jul-22
ABP1	51	166	6	85	8,282	51	140	20	71	7,409	Sep-22E
ABP2	15	171	16	26	8,600	51	140	16	71	7,409	Sep-22E
BGPC #1	70	62	24	43.4	8,282	70	140	48	98	7,409	Dec-22E
BGPM #2	70	62	24	43.4	8,282	70	140	48	98	7,409	Dec-22E
Total	61	564	116	301	8,282	68	700	178	479	7,409	

Sources: BGRIM; FSSIA estimates

Sources: BGRIM; FSSIA estimates

In addition, the five SPPRs will also sell a higher capacity of power and steam to IUs than the five SPPs they replace, with an additional 180MW capacity increase and up to a total of 440MW of electricity sold to IUs, up from 120MW from the five SPPs under the previous PPAs. These volumes of electricity sold to IUs should command higher gross margins in 2023 onward as we project the higher gas cost to be more than offset by the higher Ft-driven selling prices of electricity and the steam prices which are linked to the gas prices.

In 2023, BGRIM will commence the CODs of two new SPPs with new PPAs that will allow BGRIM to earn higher gross margins for gas consumption thanks to the higher efficiency of the gas turbines and power generators that will use 20% less gas to produce one unit of electricity.

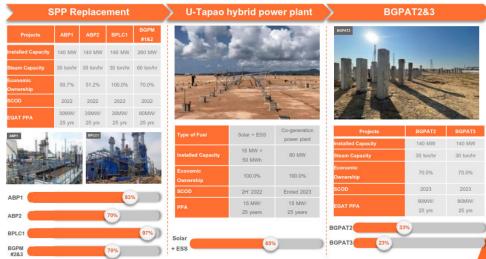


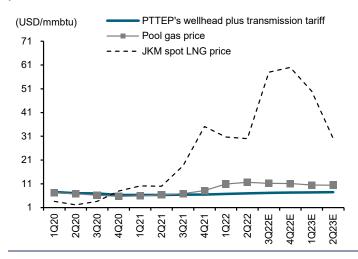
Exhibit 12: Progress of BGRIM's growth projects

Source: BGRIM

Projected higher Ft in 2023. Even after three consecutive Ft increases of THB1.09/kWh in 2022, comprising a THB0.1671/kWh increase for Jan-Apr, THB0.2338/kWh for May-Aug, and THB0.69/kWh for Sep-Dec 2022, the national grid tariff remains far lower than the actual gas cost increase of THB210/mmbtu (+95% y-y).

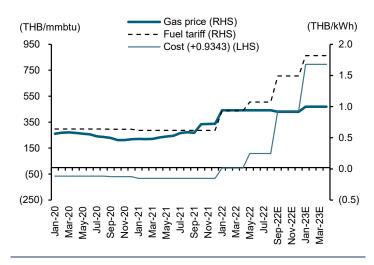
SPPs and the Electricity Generating Authority of Thailand (EGAT) would still incur losses despite the estimated THB1.8/kWh Ft increase in order to allow SPPs and EGAT to reach their breakeven levels.

Exhibit 13: PTTEP's gas price vs pool gas price vs JKM gas price



Sources: PTTEP; EGAT; PTT; FSSIA estimates

Exhibit 14: Gas price vs fuel tariff vs cost (+0.9343)



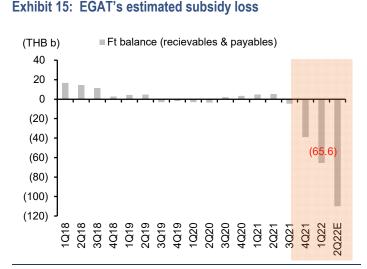
Sources: EGAT; PTT; FSSIA estimates

With the continued spikes in the spot LNG price to record highs, and the mandatory imports of spot LNG to ensure power and energy security for Thailand, we think that in 2023 the ERC will have to raise the Ft by up to THB1.0-2.0/kWh to allow EGAT to avoid potential financial distress.

As of 1Q22, EGAT's accumulated subsidy loss incurred from the mismatch between the gas cost hike and the Ft rise is overwhelmingly large at THB65b. We project that the loss has now ballooned to over THB100b as of Aug-22, and is likely to rise further to reach THB150b by 1Q23 as the THB0.69/kWh hike for Sep-Dec 2022 will likely be insufficient to cover the increase in the gas cost.

Hence, in our view, the ERC has no choice but to raise the Ft further in 2023 to prevent EGAT from entering into financial distress with insufficient cash flows to repay its interest expenses from THB137.8b in interest-bearing debts as of 1Q22.

The Ft increase, which we estimate to be in the range of THB1.0-2.0/kWh in 2023, would widen the gross margins of BGRIM's SPPs, particularly for the seven new SPPs with CODs in 2H22-2023.



Assets & equity	THB m	Liabilities	THB m
Cash on hand	51.8	Short-term debt - loan	4.9
Ft receivable	65.6	Account payable to MoF	11.0
Current asset	206.6	Loan due within one year	9.4
Total assets	1,113.9	Current liabilities	143.2
Retained earnings	468.9	Long-term debt - Ioan	137.8
Total equity	479.6	Long-term debt - IF	16.1
Minority interest	47.9	Financial lease	239.9
Total shareholder's equity	527.5	Total liabilities	586.4

Sources: EGAT: FSSIA estimates

Source: EGAT

M&As remain a key growth driver in 2H22-2023. According to management, in 2H22-2024, BGRIM remains sanguine about the inorganic growth that should further strengthen its earnings growth and help it to achieve its target of 10GW by 2030 vs its current 4GW total installed capacity and 2.7GW equity capacity as of 2Q22. Major markets for capacity growth include renewable energy in South Korea, Cambodia, Malaysia, Vietnam, Indonesia, Laos, Myanmar, the Middle East, Australia and Europe.

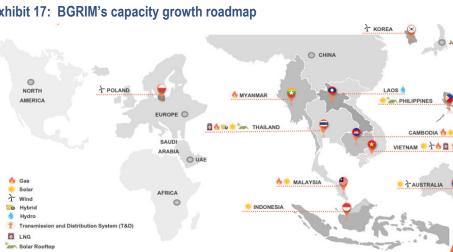


Exhibit 17: BGRIM's capacity growth roadmap

Source: BGRIM



3Q22 outlook remains bleak. Thanks to the rising gas cost, we expect BGRIM's core net profit in 3Q22 to remain weak in the range of THB0.1b-THB0.2b, flat q-q. The impact of the THB0.69/kWh Ft rise will affect BGRIM's selling prices for electricity sold to IUs only in Sep-22. However, in 4Q22, the full impact of the THB0.69/kWh Ft increase, which we estimate to add THB1.5b in revenue to BGRIM, should more than offset the projected THB40-50/mmbtu q-q increase in the gas cost, based on our estimate.

But the earnings outlook should greatly improve by 4Q22. We project BGRIM to see a meaningful improvement in earnings growth momentum in 4Q22 onward, driven by:

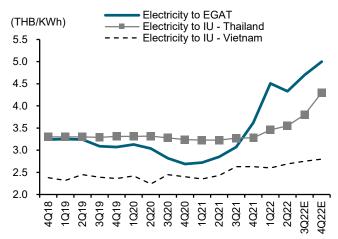
1) wider gross margins of SPPs due to the Ft hike that should outpace the gas cost rise;

2) gas cost savings by 6-10% from the seven new SPPs that are scheduled to sequentially come on stream in 2H22-2023;

3) higher volumes of electricity and steam sold to IUs, mainly from the seven new SPPs;

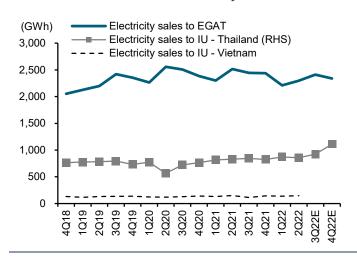
4) a y-y lower gas cost in 2023 due to the rising LNG supply from the US and the lower demand for heating in the EU after the winter season (Oct-22 to Apr-23).

Exhibit 18: Electricity selling prices to EGAT and IUs



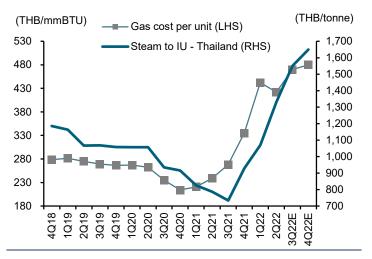
Sources: BGRIM; FSSIA estimates

Exhibit 20: Sales volumes of electricity and steam



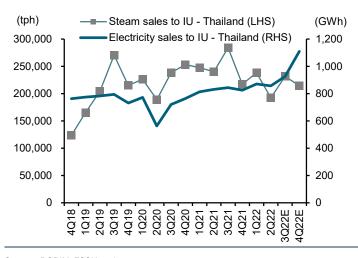
Sources: BGRIM; FSSIA estimates

Exhibit 19: Gas cost vs steam selling price



Sources: BGRIM; FSSIA estimates

Exhibit 21: Sales volumes of electricity and steam to IUs



Sources: BGRIM; FSSIA estimates

EPS and target price revisions

We lower our EPS forecasts for 2022-24 by 39-75% to reflect 1) our higher oil price assumptions by 57-60% to USD120/110/110 per bbl in 2022-24; 2) our higher gas cost estimates by 23.6-30.4% to reflect the higher pool gas price due to higher imports of spot LNG; and 3) higher average tariff assumptions by 2-14%.

We trim our SoTP-based target price from THB44 to THB42, incorporating the impact of our EPS revisions and the valuation rollover to 2023. We believe BGRIM is a strong contender for growth on the mixed bag of global commodity prices, Thailand's electricity tariff hikes, and its endemic growth strategy to grow its capacity both organically (seven new SPPs) and inorganically (M&As).

Exhibit 22: Changes in key assumptions and EPS forecasts

		Current			Previous		Change		
	2022E	2023E	2024E	2022E	2023E	2024E	2022E	2023E	2024E
	(THB m)	(THB m)	(%)	(%)	(%)				
Revenue	75,712	89,878	92,242	71,472	86,357	88,905	5.9	4.1	3.8
Gross profit	13,879	19,361	21,675	19,087	24,132	25,982	(27.3)	(19.8)	(16.6)
Operating profit	5,539	9,925	12,042	10,899	14,823	16,469	(49.2)	(33.0)	(26.9)
Net profit	913	3,000	3,632	3,663	5,675	5,958	(75.1)	(47.1)	(39.0)
EPS (THB/share)	0.4	1.2	1.4	1.4	2.2	2	(75.1)	(47.1)	(39.0)
Key assumptions									
Utilisation rate (%)	92	93	94	92	93	94	0.0	0.0	0.0
Dispatched power (GWh)	12,778	11,504	11,510	12,778	11,504	11,510	0.0	0.0	0.0
Oil price (USD/bbl)	120	110	110	75	70	70	60.0	57.1	57.1
Average tariff (THB/kWh)	3.99	3.74	4.05	3.49	3.67	4	14.3	1.9	5.2
Gas price (THB/mmbtu)	456	410	389	349	332	314	30.4	23.6	23.6

Note: Change of items in percentage terms are represented in ppt change

Sources: BGRIM; FSSIA estimates

Exhibit 23: SoTP target price

Cost of equity assumptions	(%)	Cost of debt assumptions	(%)
Risk-free rate	2.3	Pretax cost of debt	4.2
Market risk premium	8.0	Marginal tax rate	20.0
Stock beta	0.60		
Cost of equity, Ke	7.1	Net cost of debt, Kd	3.4
Weight applied	26.2	Weight applied	73.8
	0.0		
WACC (%)	4.3		

DCF valuation estimate (MW) (%) Equity Capacity (MW) (THB/share) SPP Amata Nakorn (ABP1-5) 732 38 277 6.8 ABP1&2 and BPLC1 420 51 214 6.4 27.4 Amata City (ABPR1-5) 646 58 375 Leam Chabang (BPLC1-2) 159 100 159 2.8 Bangkadi (BIP1-2) 230 74 170 2.6 SPP1 124 100 124 7.1 Amata City Bien Hoa 13 31 4 0.2 130 75 98 4.6 Hemraj BGPR1&2 240 60 144 7.9 Solar Vietnam (Dau Tieng) 420 51 214 3.3 Solar Vietnam (Hoa Hoi) 257 80 206 3.2 VSPP Solar Thailand 115 52 60 1.3 Hydropower 133 95 2.3 71 Wind 16 94 15 05 Solar Cambodia 39 100 15 1.4 Net debt (36.0)**Residual ordinary equity** 42.0

Sources: BGRIM; FSSIA estimates



Financial Statements

B.Grimm Power

Profit and Loss (THB m) Year Ending Dec	2020	2021	2022E	2023E	20248
Revenue	44,087	46,628	75,712	89,878	92,242
Cost of goods sold	(29,354)	(32,796)	(61,833)	(70,517)	(70,567
Gross profit	14,733	13,833	13,879	19,361	21,67
Other operating income	-	-	-	-	
Operating costs	(2,039)	(1,673)	(2,716)	(3,225)	(3,309
Operating EBITDA	12,694	12,160	11,163	16,136	18,36
Depreciation	(5,494)	(5,139)	(5,623)	(6,211)	(6,323
Goodwill amortisation	0	0	0	0	
Operating EBIT	7,200	7,021	5,539	9,925	12,042
Net financing costs	(3,520)	(3,537)	(4,262)	(4,546)	(4,588
Associates	58	44	224	228	21
Recurring non-operating income	751	396	424	428	41 ⁻
Non-recurring items	(442)	(164)	0	0	
Profit before tax	3,989	3,715	1,702	5,806	7,864
Tax	-		(81)	(351)	(562
	(233)	(298)	()	, ,	•
Profit after tax	3,755	3,417	1,621	5,455	7,302 (2,670
Minority interests Preferred dividends	(1,581) 0	(1,141)	(707) 0	(2,456) 0	(3,670
	0	0	0	0	(
Other items	-	-	-	-	
Reported net profit	2,175	2,276	913	3,000	3,63
Non-recurring items & goodwill (net)	442	164	0	0	(
Recurring net profit	2,617	2,440	913	3,000	3,632
Per share (THB)					
Recurring EPS *	1.00	0.94	0.35	1.15	1.39
Reported EPS	0.83	0.87	0.35	1.15	1.39
DPS	0.45	0.42	0.53	1.00	1.0
Diluted shares (used to calculate per share data)	2,607	2,607	2,607	2,607	2,60
Growth					
Revenue (%)	(0.1)	5.8	62.4	18.7	2.6
Operating EBITDA (%)	15.7	(4.2)	(8.2)	44.6	13.8
Operating EBIT (%)	14.0	(2.5)	(21.1)	79.2	21.3
Recurring EPS (%)	7.5	(6.8)	(62.6)	228.4	21.1
Reported EPS (%)	(6.7)	4.6	(59.9)	228.4	21.1
Dperating performance	(-)		()		
Gross margin inc. depreciation (%)	21.0	18.6	10.9	14.6	16.0
Gross margin of key business (%)	21.0	18.6	10.9	14.6	16.0
Operating EBITDA margin (%)	28.8	26.1	14.7	14.0	10.0
Operating EBIT margin (%)	16.3	15.1	7.3	11.0	13.1
Net margin (%)	5.9	5.2	1.2	3.3	3.9
Effective tax rate (%)	5.9	5.2 8.1	5.5	5.3 6.3	3.: 7.:
			5.5 151.3	86.9	71.8
Dividend payout on recurring profit (%)	44.8	44.9			
nterest cover (X)	2.3	2.1	1.4	2.3	2.1
nventory days	12.4	11.2	8.3	10.1	10.8
Debtor days	57.8	61.8	51.8	59.2	74.
Creditor days	148.6	63.1	48.5	59.4	63.
Dperating ROIC (%)	7.8	6.4	4.5	7.0	7.
ROIC (%)	6.9	5.4	3.9	6.1	6.
ROE (%)	9.4	8.6	3.1	9.9	11.
ROA (%)	5.6	4.6	3.2	5.3	6.3
Pre-exceptional, pre-goodwill and fully diluted					
Revenue by Division (THB m)	2020	2021	2022E	2023E	2024
Electricity generation	44,087	46,628	75,712	89,878	92,242
Others business	0	0	0	0	(

Sources: B.Grimm Power; FSSIA estimates

Financial Statements

B.Grimm Power

Cash Flow (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Recurring net profit	2,617	2,440	913	3,000	3,632
epreciation	5,494	5,139	5,623	6,211	6,323
ssociates & minorities	58	44	224	228	211
ther non-cash items	-	-	-	-	
hange in working capital	(12,068)	(3,772)	(1,052)	(3,759)	(4,415
ash flow from operations	(3,898)	3,851	5,709	5,680	5,751
apex - maintenance	(101)	(102)	(100)	(100)	(100
apex - new investment	(13,562)	(9,541)	(17,900)	(17,900)	(17,900
et acquisitions & disposals	(465)	1,839	0	0	(
other investments (net)	1,024	(1,553)	224	228	211
ash flow from investing	(13,104)	(9,357)	(17,776)	(17,772)	(17,789
ividends paid	(1,173)	(1,095)	(782)	(1,303)	(2,607
quity finance	0	0	0	0	(
lebt finance	15,230	17,692	11,548	2,000	(
ther financing cash flows	(328)	(3,707)	260	2,001	3,250
ash flow from financing	13,729	12,890	11,025	2,697	643
lon-recurring cash flows	-	-	-	-	
other adjustments	0	0	0	0	(
et other adjustments	0	0	0	0	(14, 200
lovement in cash	(3,274)	7,385	(1,042)	(9,395)	(11,396)
ree cash flow to firm (FCFF) ree cash flow to equity (FCFE)	(13,816.44) (2,100.66)	(1,211.98) 8,479.58	(7,805.62) (259.77)	(7,546.55)	(7,450.54) (8,789.15)
lee cash now to equity (FCFE)	(2,100.00)	0,479.50	(259.77)	(8,091.98)	(0,709.15
er share (THB)					
CFF per share	(5.30)	(0.46)	(2.99)	(2.89)	(2.86
CFE per share	(0.81)	3.25	(0.10)	(3.10)	(3.37
ecurring cash flow per share	3.13	2.92	2.59	3.62	3.90
alance Sheet (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
angible fixed assets (gross)	114,469	123,187	141,187	159,187	177,187
ess: Accumulated depreciation	(34,169)	(38,383)	(44,006)	(50,218)	(56,541
angible fixed assets (net)	80,300	84,804	97,180	108,969	120,64
ntangible fixed assets (net)	12,949	13,587	13,587	13,587	13,587
ong-term financial assets	-	-	-	-	10,007
ivest. in associates & subsidiaries	1,070	2,909	2,909	2,909	2,909
ash & equivalents	20,389	27,774	26,732	17,336	5,940
/C receivable	6,818	8,983	12,498	16,672	20,954
iventories	1,033	971	1,831	2,088	2,090
other current assets	1,638	3,330	5,407	6,419	6,588
current assets	29,879	41,058	46,468	42,515	35,571
Other assets	6,498	6,839	6,839	6,839	6,839
otal assets	130,696	149,198	166,984	174,819	179,552
common equity	27,470	29,471	29,603	31,299	32,324
/inorities etc.	11,834	11,344	12,052	14,507	18,178
otal shareholders' equity	39,304	40,816	41,654	45,806	50,501
ong term debt	57,256	89,241	99,241	99,241	99,241
Other long-term liabilities	7,143	6,418	6,417	6,417	6,417
ong-term liabilities	64,399	95,658	105,658	105,658	105,658
/C payable	5,641	5,691	10,729	12,236	12,244
hort term debt	20,745	6,452	8,000	10,000	10,000
ther current liabilities	607	581	943	1,119	1,149
urrent liabilities	26,993	12,724	19,672	23,355	23,393
otal liabilities and shareholders' equity	130,696	149,198	166,984	174,819	179,552
let working capital	3,242	7,013	8,065	11,824	16,239
nvested capital	104,059	115,152	128,581	144,128	160,220
Includes convertibles and preferred stock which is be	ang treated as debt				
er share (THB)					
ook value per share	10.54	11.31	11.36	12.01	12.40
angible book value per share	5.57	6.09	6.14	6.79	7.19
inancial strength					
let debt/equity (%)	146.6	166.4	193.3	200.6	204.6
let debt/total assets (%)	44.1	45.5	48.2	52.6	57.5
urrent ratio (x)	1.1	3.2	2.4	1.8	1.5
F interest cover (x)	4.3	6.1	5.1	3.2	3.0
aluation	2020	2021	2022E	2023E	2024E
ecurring P/E (x) *	36.4	39.0	104.2	31.7	26.2
ecurring P/E (x) *	41.8	44.9	104.2	36.5	30.1
eported P/E (x)	41.6 43.8	44.9 41.8	104.2	36.5 31.7	30. 26.2
ividend yield (%)	43.8	41.8	1.5	2.7	20.2
rice/book (x)	3.5	3.2	3.2	3.0	2.9
rice/tangible book (x)	5.5 6.6	6.0	5.9	5.4	2.8 5.1
V/EBITDA (x) **	13.0	14.3	16.8	5.4 12.5	5. 11.8
V/EBITDA @ target price (x) **	13.0	14.3	18.1	12.5	12.6
	1.6	1.5	1.5	1.4	12.0
V/invested capital (x)					

Sources: B.Grimm Power; FSSIA estimates



Corporate Governance report of Thai listed companies 2021

EXCELLENT LEVEL – Score range 90-100										
AV	BCPG	CPALL	GCAP	K	MSC	PLANET	SAMART	SPI	THRE	TVD
OVANC	BDMS	CPF	GFPT	KBANK	MST	PLAT	SAMTEL	SPRC	THREL	TVI
	BEM	CPI	GGC	KCE	MTC	PORT	SAT	SPVI	TIPCO	TVO
	BGC	CPN	GLAND	KKP	MVP	PPS	SC	SSSC	TISCO	TWPC
RA	BGRIM	CRC	GLOBAL	KSL	NCL	PR9	SCB	SST	TK	U
Р	BIZ	CSS	GPI	KTB	NEP	PREB	SCC	STA	TKT	UAC
R	BKI	DDD	GPSC	KTC	NER	PRG	SCCC	STEC	TMT	UBIS
Г	BOL	DELTA	GRAMMY	LALIN	NKI	PRM	SCG	STI	TNDT	UV
			GULF				SCGP			
A	BPP	DEMCO		LANNA	NOBLE	PROUD		SUN	TNITY	VGI
ATA	BRR	DRT	GUNKUL	LH	NSI	PSH	SCM	SUSCO	TOA	VIH
ATAV	BTS	DTAC	HANA	LHFG	NVD	PSL	SDC	SUTHA	TOP	WACOAL
AN	BTW	DUSIT	HARN	LIT	NWR	PTG	SEAFCO	SVI	TPBI	WAVE
т	BWG	EA	HMPRO	LPN	NYT	PTT	SEAOIL	SYMC	TQM	WHA
	CENTEL	EASTW	ICC	MACO	OISHI	PTTEP	SE-ED	SYNTEC	TRC	WHAUP
IP	CFRESH	ECF	ICHI	MAJOR	OR	PTTGC	SELIC	TACC	TRU	WICE
 ROW	CHEWA	ECL	III	MAKRO	ORI	PYLON	SENA	TASCO	TRUE	WINNER
			III ILINK							
P	CHO	EE		MALEE	OSP	Q-CON	SHR	TCAP	TSC	ZEN
СТ	CIMBT	EGCO	ILM	MBK	ОТО	QH	SIRI	TEAMG	TSR	
/C	CK	EPG	INTUCH	MC	PAP	QTC	SIS	TFMAMA	TSTE	
UD	CKP	ETC	IP	MCOT	PCSGH	RATCH	SITHAI	TGH	TSTH	
FS	СМ	FPI	IRPC	METCO	PDG	RS	SMK	THANA	TTA	
NPU	CNT	FPT	ITEL	MFEC	PDJ	S	SMPC	THANI	ТТВ	
Y	COM7	FSMART	IVL	MINT	PG	5&J	SNC	THCOM	TTCL	
SL	COMAN	GBX	JSP		PHOL	SAAM	SONIC	THE	TTW	
				MONO						
P	СОТТО	GC	JWD	MOONG	PLANB	SABINA	SPALI	THIP	TU	
Data and a state of the state o		VE	RY GOOD LE	EVEL – Score	range 80-89					
	ASIMAR	CHOW	FLOYD	IT	LOXLEY	000	RPC	SKY	TCC	TVT
Р	ASK	CI	FN	ITD	LRH	OGC	RT	SLP	TCMC	TWP
ICO	ASN	CIG	FNS	J	LST	PATO	RWI	SMIT	TEAM	UEC
M	ATP30	CMC	FORTH	JAS	М	PB	S11	SMT	TFG	UMI
E	B	COLOR	FSS	JCK	MATCH	PICO	SA	SNP	TFI	UOBKH
G	BA	CPL	FTE	JCKH	MBAX	PIMO	SAK	SO	TIGER	UP
B										UPF
	BAM	CPW	FVC	JMART	MEGA	PJW	SALEE	SORKON	TITLE	
ONTS	BC	CRD	GEL	JMT	META	PL	SAMCO	SPA	TKN	UPOIC
E	BCH	CSC	GENCO	KBS	MFC	PM	SANKO	SPC	TKS	UTP
С	BEC	CSP	GJS	KCAR	MGT	PMTA	SAPPE	SPCG	TM	VCOM
Г	BEYOND	CWT	GYT	KEX	MICRO	PPP	SAWAD	SR	TMC	VL
L	BFIT	DCC	HEMP	KGI	MILL	PPPM	SCI	SRICHA	TMD	VPO
LA	BJC	DCON	HPT	KIAT	MITSIB	PRIME	SCN	SSC	TMI	VRANDA
UCON	BJCHI	DHOUSE	HTC	KISS	MK	PRIN	SCP	SSF	TMILL	WGE
IANAH	BLA	DOD	HYDRO		MODERN	PRINC	SE		TNL	WIIK
				KOOL				STANLY		
IARIN	BR	DOHOME	ICN	KTIS	MTI	PSG	SFLEX	STGT	TNP	WP
CO	BROOK	DV8	IFS	KUMWEL	NBC	PSTC	SFP	STOWER	TOG	XO
CS	CBG	EASON	IMH	KUN	NCAP	PT	SFT	STPI	TPA	XPG
URE	CEN	EFORL	IND	KWC	NCH	QLT	SGF	SUC	TPAC	YUASA
UA	CGH	ERW	INET	KWM	NETBAY	RBF	SIAM	SWC	TPCS	
AP	CHARAN	ESSO	INSET	L&E	NEX	RCL	SINGER	SYNEX	TPS	
	CHAYO	ESTAR	INSURE	LDC	NINE	RICHY	SKE	TAE	TRITN	
EFA										
IA	CHG	ETE	IRC	LEO	NRF	RML	SKN	TAKUNI	TRT	
AN	СНОТІ	FE	IRCP	LHK	NTV	ROJNA	SKR	TBSP	TSE	
	nam urstvinussionin Naliau Cic Careetay	GC	DOD LEVEL -	Score range	70-79					
	BGT	CITY	GIFT	JTS	MDX	PK	SGP	SUPER	TQR	YGG
	BH	CMAN	GLOCON	JUBILE	MJD	PLE	SICT	SVOA	TTI	ZIGA
	BIG	CMO	GREEN	KASET	MORE	PPM	SIMAT	TC	TYCN	
-	BLAND	CMR	GSC	KCM	MUD	PRAKIT	SISB	TCCC	UKEM	
PHAX	BM	CPT	GTB	KK	NC	PRAPAT	SK	THMUI	UMS	
С	BROCK	CRANE	HTECH	KKC	NDR	PRECHA	SMART	TNH	UNIQ	
P	BSBM	CSR	HUMAN	KWI	NFC	PTL	SOLAR	TNR	UPA	
	BSM	D	IHL	KYE	NNCL	RJH	SPACK	TOPP	UREKA	
IN	BTNC	EKH	liG	LEE	NOVA	RP	SPG	TPCH	VIBHA	
	BYD	EMC	INGRS	LPH	NPK	RPH	SQ	TPIPL	W	
-	CAZ	EP	INOX	MATI	NUSA	RSP	SSP	TPIPP	WIN	
2	CCP	F&D	JAK	M-CHAI	PAF	SABUY	STARK	TPLAS	WORK	
AUTY	CGD	FMT	JR	MCS	PF	SF	STC	TPOLY	WPH	

Disclaimer:

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* CGR scoring should be considered with news regarding wrong doing of the company or director or executive of the company such unfair practice on securities trading, fraud, and corruption SEC imposed a civil sanction against insider trading of director and executive

Sources: Thai Institute of Directors Association (IOD); FSSIA's compilation; data as of 26 October 2021

Anti-corruption Progress Indicator

CERTIFIED										
2S	BCH	CPALL	GC	К	MFC	PE	QLT	SNP	THCOM	TU
7UP	BCP	CPF	GCAP	KASET	MFEC	PG	QTC	SORKON	THIP	TVD
ADVANC	BCPG	CPI	GEL	KBANK	MILL	PHOL	RATCH	SPACK	THRE	TVI
AF	BE8	CPN	GFPT	KBS	MINT	PK	RML	SPALI	THREL	TVO
AI	BEYOND	CSC	GGC	KCAR	MONO	PL	RWI	SPC	TIDLOR	TWPC
AIE	BGC	DCC	GJS	KCE	MOONG	PLANB	S & J	SPI	TIPCO	U
AIRA	BGRIM	DELTA	GPI	KGI	MSC	PLANET	SAAM	SPRC	TISCO	UBE
AKP	BJCHI	DEMCO	GPSC	KKP	MST	PLAT	SABINA	SRICHA	TKS	UBIS
ALPHAX	BKI	DIMET	GSTEEL	KSL	MTC	PM	SAPPE	SSF	ткт	UEC
AMA	BLA	DRT	GUNKUL	KTB	MTI	PPP	SAT	SSP	TMD	UKEM
AMANAH	BPP	DTAC	HANA	KTC	NBC	PPPM	SC	SSSC	TMILL	UOBKH
AMATA	BROOK	DUSIT	HARN	KWC	NEP	PPS	SCB	SST	TMT	UPF
AMATAV	BRR	EA	HEMP	KWI	NINE	PR9	SCC	STA	TNITY	UV
AP	BSBM	EASTW	HENG	L&E	NKI	PREB	SCCC	STOWER	TNL	VGI
APCS	BTS	ECL	HMPRO	LANNA	NMG	PRG	SCG	SUSCO	TNP	VIH
AQUA	BWG	EGCO	HTC	LH	NNCL	PRINC	SCN	SVI	TNR	WACOAL
ARROW	CEN	EP	ICC	LHFG	NOBLE	PRM	SEAOIL	SYMC	TOG	WHA
AS	CENTEL	EPG	ICHI	LHK	NOK	PROS	SE-ED	SYNTEC	TOP	WHAUP
ASIAN	CFRESH	ERW	IFEC	LPN	NSI	PSH	SELIC	TAE	TOPP	WICE
ASK	CGH	ESTAR	IFS	LRH	NWR	PSL	SENA	TAKUNI	TPA	WIIK
ASP	CHEWA	ETE	ILINK	М	OCC	PSTC	SGP	TASCO	TPP	XO
AWC	CHOTI	FE	INET	MAKRO	OGC	PT	SINGER	TBSP	TRU	ZEN
AYUD	CHOW	FNS	INSURE	MALEE	ORI	PTG	SIRI	TCAP	TRUE	
В	CIG	FPI	INTUCH	MATCH	PAP	PTT	SITHAI	TCMC	TSC	
BAFS	CIMBT	FPT	IRC	MBAX	PATO	PTTEP	SKR	TFG	TSTE	
BAM	СМ	FSMART	IRPC	MBK	PB	PTTGC	SMIT	TFI	TSTH	
BANPU	CMC	FSS	ITEL	MC	PCSGH	PYLON	SMK	TFMAMA	TTA	
BAY	COM7	FTE	IVL	MCOT	PDG	Q-CON	SMPC	TGH	ттв	
BBL	сотто	GBX	JKN	META	PDJ	QH	SNC	THANI	TTCL	
DECLARED										
AJ	CHG	DDD	ETC	JR	MAJOR	NUSA	RS	SSS	TQM	YUASA
ALT	CPL	DHOUSE	FLOYD	JTS	NCAP	NYT	SAK	STECH	TSI	ZIGA
APCO	CPR	DOHOME	GULF	KEX	NCL	OR	SCGP	STGT	VARO	
B52	CPW	ECF	Ш	KUMWEL	NOVA	PIMO	SCM	TKN	VCOM	
BEC	CRC	EKH	INOX	LDC	NRF	PLE	SIS	ТМІ	VIBHA	

Level

Certified

This level indicates practical participation with thoroughly examination in relation to the recommended procedures from the audit committee or the SEC's certified auditor, being a certified member of Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) or already passed examination to ensure independence from external parties.

Declared This level indicates determination to participate in the Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC)

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Note: Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of 26 October 2021) are categorised into: 1) companies that have declared their intention to join CAC, and; 2) companies certified by CAC.

Sources: The Securities and Exchange Commission, Thailand; * FSSIA's compilation

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

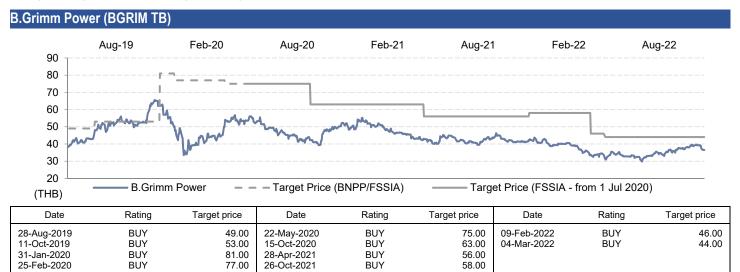
Suwat Sinsadok, CFA, FRM, ERP FSS International Investment Advisory Securities Co., Ltd

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History of change in investment rating and/or target price



Suwat Sinsadok, CFA, FRM, ERP started covering this stock from 26-Jun-2020

Price and TP are in local currency

Source: FSSIA estimates

PTT Explor & Prod (PTTEP TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
29-Oct-2019 11-Mar-2020 26-Mar-2020 30-Apr-2020	HOLD HOLD BUY BUY	123.00 81.00 81.00 85.00	12-Jun-2020 30-Dec-2020 11-Feb-2021 05-Jul-2021	BUY BUY BUY BUY	101.00 116.00 136.00 158.00	28-Jan-2022 16-Mar-2022 27-Jul-2022	BUY BUY BUY	162.00 176.00 180.00

Suwat Sinsadok, CFA, FRM, ERP started covering this stock from 12-Jun-2020

Price and TP are in local currency

Source: FSSIA estimates



Company	Ticker	Price	Rating	Valuation & Risks
B.Grimm Power	BGRIM TB	THB 36.50	BUY	The downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand, 2) a lower crude price, and 3) unplanned shutdowns of its SPPs.
PTT Explor & Prod	PTTEP TB	THB 168.00	BUY	Risks our TP, which is based on EV/EBITDA, are a sharp decline in oil price and a potential earnings downside from government intervention.

Source: FSSIA estimates

Additional Disclosures

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finansia Syrus Securities Public Company Limited

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All share prices are as at market close on 24-Aug-2022 unless otherwise stated.

RECOMMENDATION STRUCTURE

Stock ratings

Stock ratings are based on absolute upside or downside, which we define as (target price* - current price) / current price.

BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

Industry Recommendations

Overweight. The analyst expects the fundamental conditions of the sector to be positive over the next 12 months. **Neutral.** The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months. **Underweight.** The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

Country (Strategy) Recommendations

Overweight (O). Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Neutral (N). Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Underweight (U). Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

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