

Banpu Power 2Q24 results

Opportunity Day

23rd August 2024



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Highlights 2Q24 **BANPU**

2Q24 highlights

Financial highlight

THB 7.0 bn

Revenue

Significant contribution from thermal assets especially from Temple I and II in the US

THB 0.98 bn

NPAT

Strong performance supported by resilient operational results

THB 2.5 bn

Consol. EBITDA (1)

Strong contributions from thermal assets

0.51 x

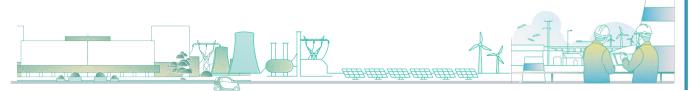
Net D/E

Maintained net D/E at a low level

Portfolio highlight

3,656 MW

TOTAL CAPACITY (2)



OPERATIONAL UPDATES & KEY DEVELOPMENTS



Smooth Operations at HPC and BLCP

Consistent achieving high equivalent available factor (EAF), supported by favorable operations, leading to an increased financial contribution to Banpu Power's thermal portfolio.



MoU signing with Gemeng International Energy on Renewable Energy Development

In July 2024, Banpu Investment (China), a subsidiary of Banpu Power signed an MoU with Gemeng International Energy, to explore and scale renewable energy growth opportunities in China.



Development of the 1st Solar Farm in the US

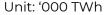
In August 2024, Banpu Power installed the Ponder Solar Farm, a 2.5 MW solar farm, marking a significant step towards expanding its US power value chain.

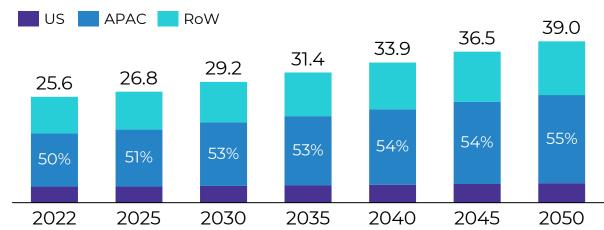




Overview of global power demand

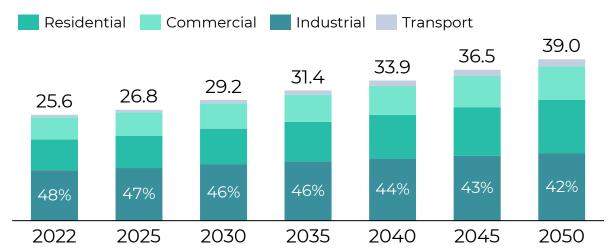
TOTAL GLOBAL ELECTRICITY CONSUMPTION BY REGION





TOTAL GLOBAL ELECTRICITY CONSUMPTION BY SEGMENT

Unit: '000 TWh



Key takeaways

Continued urbanization in emerging markets and the electrification of transportation are anticipated to be stable drivers of demand

9% CAGR

11% CAGR

Global electricity increase in 2050 through emerging market needs and electrification APAC to lead global electricity demand growth through to 2050, driven by rapid digitalization

Data centers and the evolution of AI will be one of the key drivers of future energy demand growth

US\$100

1,000

billion

TWh

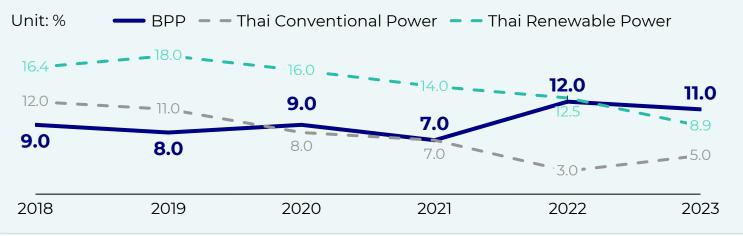
Expected data center investments in Asia

Growth in global data center electricity demand by 2030

Delivering superior value: quality megawatts

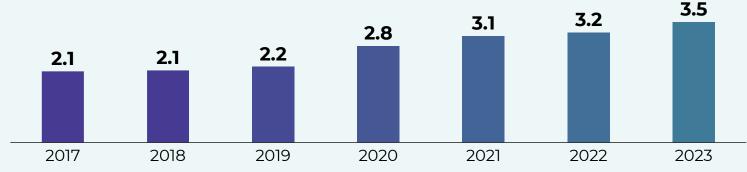
Experienced utility provider well-positioned to capture growth of electricity demand through **acquisition strategy** and **operational initiatives**

BPP HISTORICAL RETURN ON EQUITY (ROE)



BPP HISTORICAL OPERATING MW GROWTH

Unit: GW



Page 6 Source: S&P Capital IQ

Strategic and operational initiatives

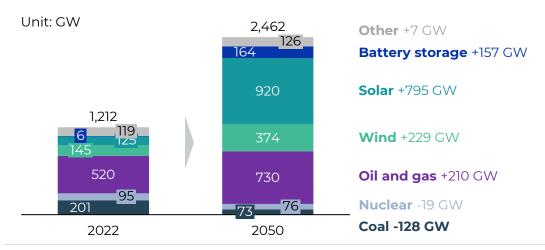
- Expanding generation capacity of highefficiency CCGT for consistent cashflow generation
- Prioritizing development of clean energy technology including CCUS, energy infra, and BESS to enhance BPP's position as a reliable partner in the energy transition
- Optimizing portfolio balance between PPA and merchant market revenue streams to maximize returns while managing portfolio risk

BPP's expert knowledge, extensive experience, and resilient teamwork significantly contribute to enhance our success



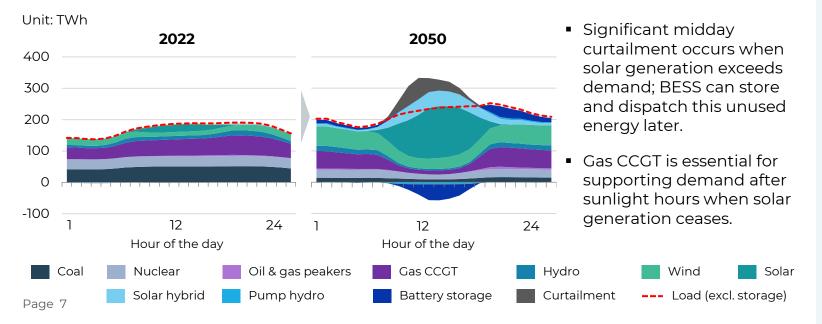
US power outlook: growth opportunities

US GENERATING CAPACITY OUTLOOK



- Renewable capacity rises significantly due to declining costs, subsidies, and increased battery installations.
- Gas-fired power capacity also grows to support the higher share of renewables by providing reserve capacity.

US HOURLY ELECTRICITY GENERATION AND DEMAND LOAD





GROWTH OPPORTUNITIES

GAS FIRED POWER



- Capture rising power demand
- Provide baseload power for renewables

TRANSMISSION INFRASTRUCTURE



- 1 Support renewable energy integration
- **2** | Enhanced grid reliability and stability

RENEWABLES + BESS



- Grid balancing
- **2** Revenue stacking
- **3** Net zero demand growth



US power value chain expansion: launch of US solar farm

PONDER SOLAR FARM

PROJECT HIGHLIGHTS

2.5 MW

6.4 GWh

Capacity (AC)

Generation

The BKV—BPP Solar Farm is a leading renewable energy project located in the heart of Denton County, Texas. The project utilizes 16 acres of land owned by BKV Barnett

PROJECT TIMELINE



BUILDING AN INTEGRATED US POWER VALUE CHAIN

UPSTREAM	M	IIDSTREAM	DOWNSTREAM
SHALE GAS PRODUCTION	GAS-FIRED POWER	TRANSMISSION & DISTRIBUTION	END CONSUMERS
CO2		EN	NERGY
CCUS	RENEWABLES	TR. BESS Energy Infra.	ADING Data centers
		I I	I .

FIRST STEPS IN US CLEAN ENERGY

This new development will serve as a roadmap to expand **new energy infrastructure and services** in the US power market. By leveraging synergies and capturing upside, we can **drive unparalleled value across our portfolio.**

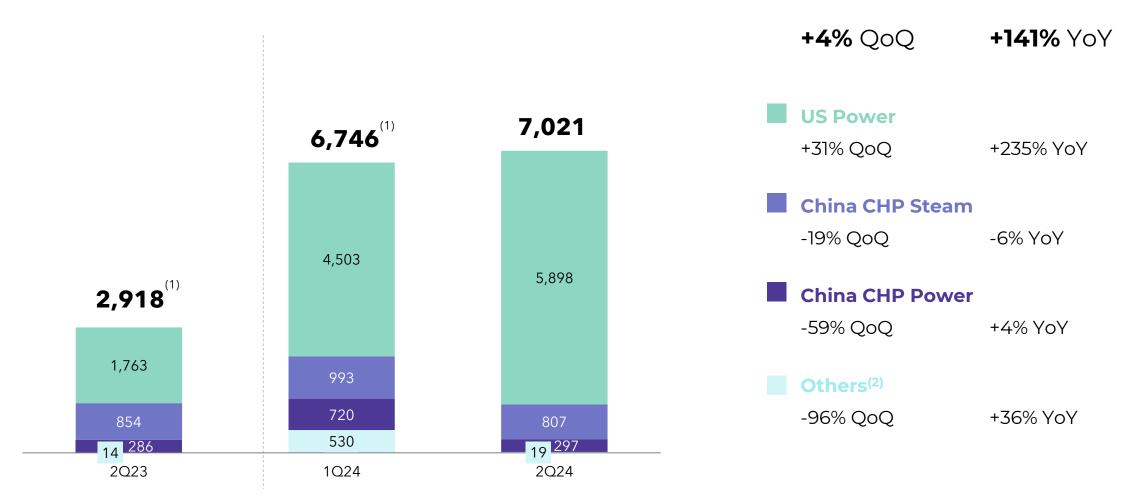






Banpu Power consolidated revenue – 2Q24

Unit: THB M



Note: (1) There has been a change in accounting policy for hedge accounting. Going forward, spark spread revenue and cost will be recorded at contract price, rather than the market price as previously done. This change will impact revenue, cost, and realized gain/loss on derivative. The data for 2Q23, 1Q24, 2Q24 already reflects this new policy.

(2) Others include hot water, cooling water, and Zhengding solar rooftop



Banpu Power consolidated EBITDA – 2Q24

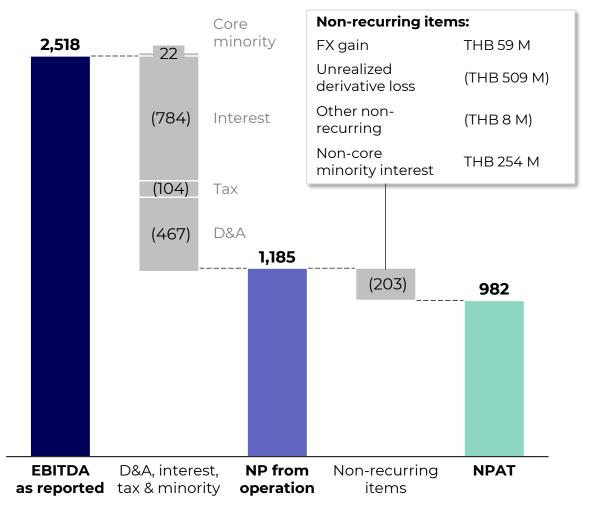
+67% QoQ **+37%** YoY Unit: THB M **Banpu NEXT** n/a YoY n/a QoQ **US Power** 2,518 +31% QoQ +83% YoY **Nakoso IGCC** 1,841 1,512 n/a QoQ +19% YoY 927 / 45 **SLG** 506 705 129 --84% QoQ -43% YoY 5 31 **China CHP** 1,112 1,051 -76% QoQ +55% YoY 688 **HPC** 189 -+62% QoQ +6% YoY (150)**BLCP** n/a QoQ +60% YoY Others (1) 2Q23 2Q24 1Q24 n/a QoQ n/a YoY

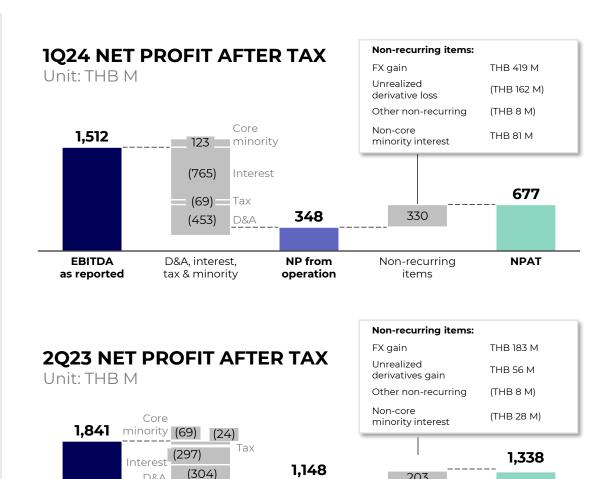
Note: (1) Others include Head office - BPP

Banpu Power consolidated NPAT – 2Q24

2Q24 NET PROFIT AFTER TAX

Unit: THB M





NP from

operation

EBITDA

as reported

D&A, interest,

tax & minority

NPAT

203

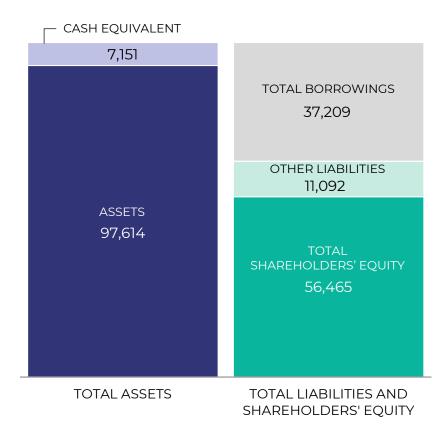
Non-recurring

items

Banpu Power consolidated financial position – 2Q24

2Q24 Consolidated Financial Position

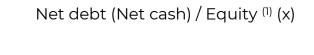
Unit: THB M



31 June 2024

In 2Q24, total assets were THB 104,767 M, an increase of THB 1,406 M from 1Q24. The net D/E ratio increased from 0.48 to 0.51 contributed from additional debt secured.

Gearing Ratios





Note: (1) Net debt to book value of shareholders' equity





China CHP: operational performance

China Combined Heat and Power (CHP) Plants

In 2006, Banpu invested into 3 combined heat and power plants in China with total of 548 equity MWe at present.

Quarter update: All plants operating as planned with no disruptions.



ZHENGDING CHP

HEBEI, CHINA

Ownership: 100%

Power capacity: 139 MWe

LUANNAN CHP HEBEI, CHINA

Ownership: 100%

Power capacity: 246 MWe

ZOUPING CHP SHANDONG, CHINA

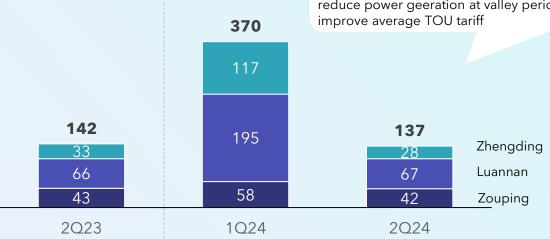
Ownership: 70%

Power capacity: 233 MWe

Electricity sold (GWh)

QoQ: -63% YoY: -3%

Lower YoY: primarily due to trial operation of one boiler and one turbine under new operation mode at ZD in 2Q24 to further reduce power geeration at valley periods to



Steam sold ('000 t)

QoQ: -55% YoY: -3%

Decrease YoY: Mainly attributed to ZP



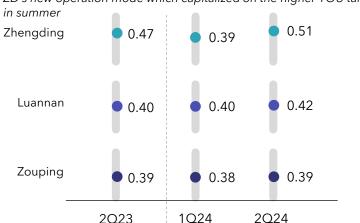


China CHP:

financial performance

Tariff (RMB/kWh)

Higher YoY & QoQ contributed by higher tariff at ZD and LN, and ZD's new operation mode which capitalized on the higher TOU tariff

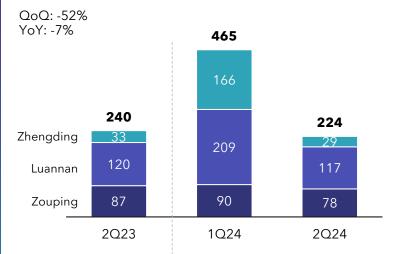


Coal price (RMB/t)

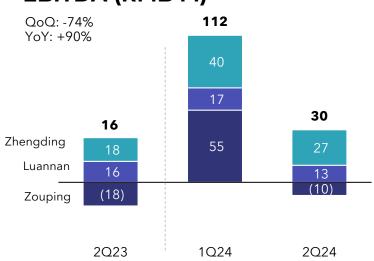
Lower YoY due to the downturn trend of coal price with sufficient coal supply and tepid demand in 2024.



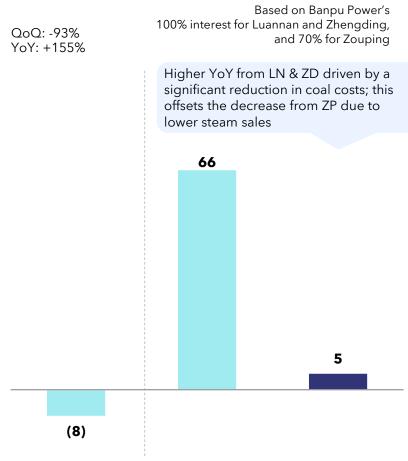
Total revenue (RMB M)



EBITDA (RMB M)



Profit contribution to BPP (RMB M)







SLG:

operational and financial performance

Shanxi Lu Guang Power Plant

Commissioned in 2021, SLG is a high efficiency coal-fired power plant that utilizes best of class technology to significantly lower emissions.

Quarter update: Unit #1 was conducted C-Class maintenance in Apr 18-June 2. Unit #2 was dispatched for reserve shutdown of 24 days in Q2 due to insufficient power demand.

Continue to supply industrial steam supply in Q2.





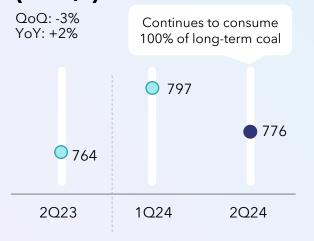
SHANXI, CHINA
Ownership: 30%
Power capacity: 1,320 MW

Electricity sold Total revenue (GWh) (RMB M) Lower YoY due to retrofit of Unit QoQ: -33% QoQ: -40% 2. lower demand from cooler YoY: -6% YoY: -7% temperatures, and increased hydropower from heavy rainfall 1,410 563 1,003 940 367 340

2024

Standard coal price (RMB/t)

2Q23

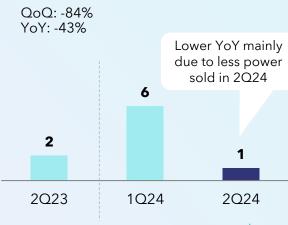


1Q24

Profit contribution to BPP (RMB M)

1024

2Q23





2Q24

HPC:

operational performance

HPC Power Plant

HPC is a lignite mine mouth power plant that commissioned between 2015 and 2016, making it Lao's largest power generating asset in terms of capacity.

Quarter update: Operating smoothly as planned





HPC

XAYABURI, LAOS

Ownership: 40%

Power capacity: 1,878 MW

Net generation (GWh)



Equivalent availability factor (%)



Contracted availability hour (hrs)

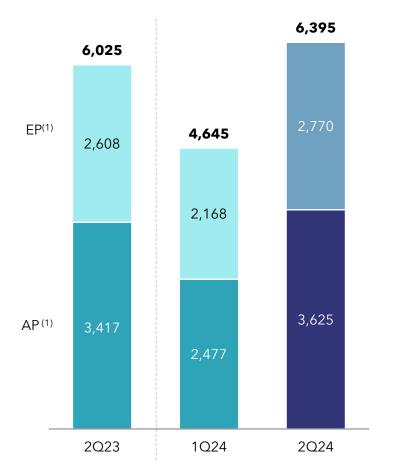




HPC: financial performance

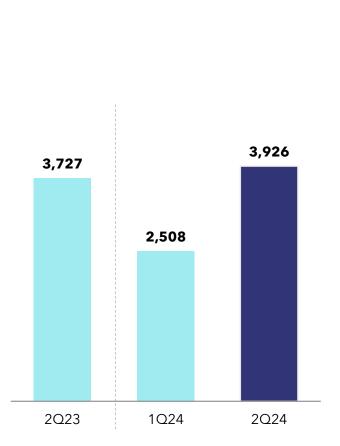
Total revenue (THB M)

QoQ: +38% YoY: +6%



EBITDA (THB M)

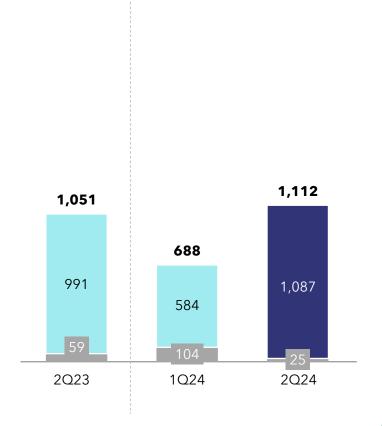
QoQ: +57% YoY: +5%



Profit contribution to BPP (THB M)

QoQ: +62% YoY: +6% Based on Banpu Power's 40% interest

FX Gain/loss



Note: (1) 100% basis for availability payment (AP), energy payment (EP)



BLCP:

operational performance

BLCP Power Plant

BLCP is a coal-fired power plant located in Map Ta Phut Industrial estate, Rayong with Unit 1 and 2 COD in 2006 and 2007, respectively.

Quarter update: Operating smoothly as planned





BLCP RAYONG, THAILAND

Ownership: 50%

Power capacity: 1,434 MW

Net generation (GWh)



Equivalent availability factor (%)



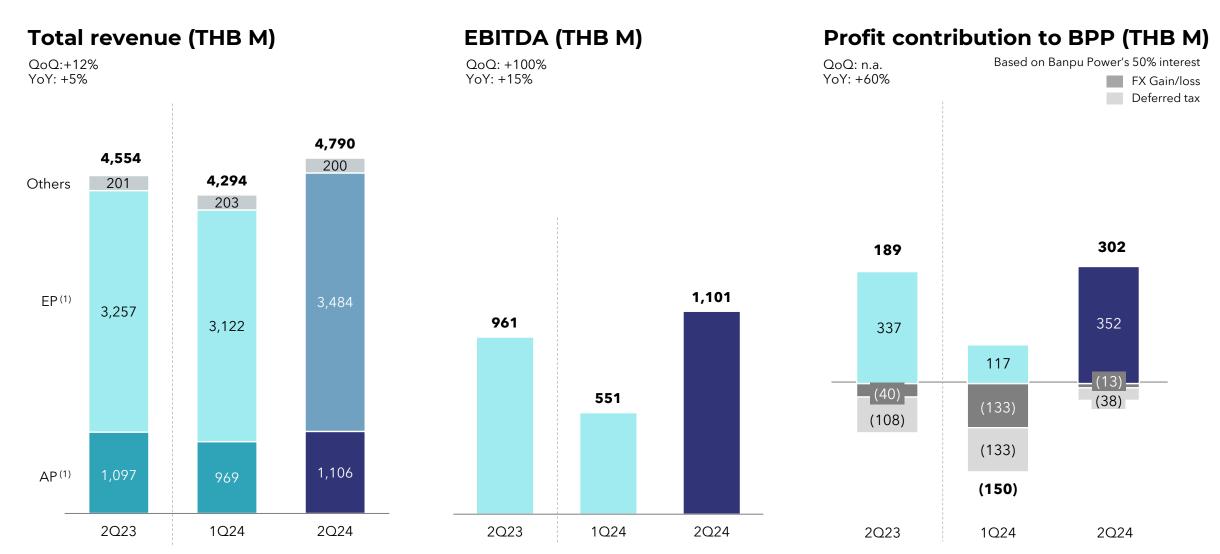
Contracted availability hour (hrs)





BLCP:

financial performance



Financial performance provided are based on IFRS accounting standard Note: (1) 100% basis for availability payment (AP), energy payment (EP)



Temple I & II: operational performance

Temple I & II CCGT

Temple I & II are combined cycle gas-fired power plants located next to each other, supplying base load power to the ERCOT market, COD in 2014 and 2015, respectively. Both assets have recognized revenue since November 2021 and July 2023, respectively.

Quarter update: T2 Conducted spring outage as planned.





TEMPLE I CCGT TEXAS, USA

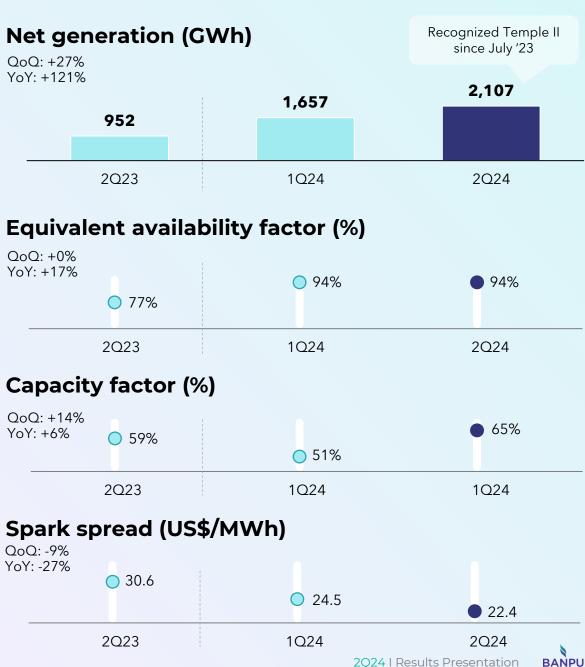
Ownership: 50%

Power capacity: 768 MW

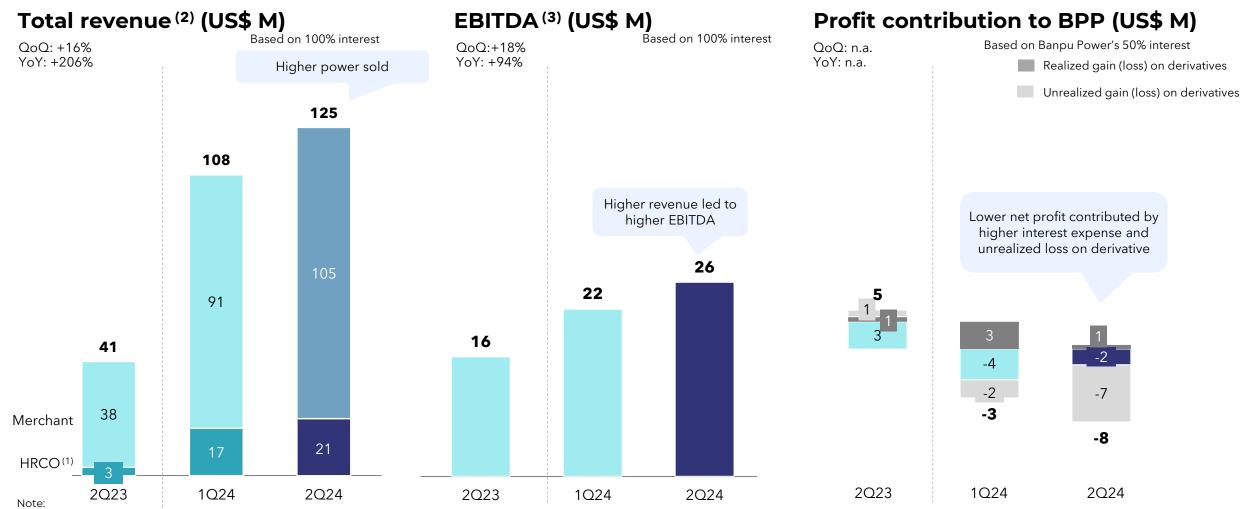
TEMPLE II CCGT

TEXAS, USA Ownership: 50%

Power capacity: 755 MW



Temple I & II: financial performance



(1) Heat Rate Call Option (HRCO) is a derivative used to secure monthly fixed revenue to ensure stable cash flow streams for both low and peak season

(3) EBITDA includes realized gain / (loss) from derivative but excluded unrealized gain / (loss) from derivative.

BANPU

⁽²⁾ There has been a change in accounting policy for hedge accounting. Going forward, spark spread revenue and cost will be recorded at contract price, rather than the market price as previous done. This change will impact revenue, coat, and realized gain/loss on derivative. The data for 2Q23, 1Q24, 2Q24 already reflects this new policy.

Nakoso:

operational & financial performance

Nakoso Power Plant

Nakoso is an integrated gasification combined cycle power plant that generates power at higher efficiencies with lower emissions and fuel consumption, COD in April 2021.

Quarter update: Nakoso IGCC's completed their yearly maintenance outage





Nakoso
• FUKUSHIMA, JAPAN
Ownership: 13.4% (1)
Power capacity: 543 MW

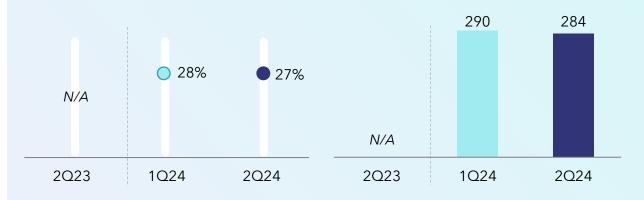
Note: (1) BPP owns 33.5% in NIMCO, which owns 40% of Nakoso IGCC Page 24

Equivalent availability factor (%)

QoQ: -1% YoY: n.a.

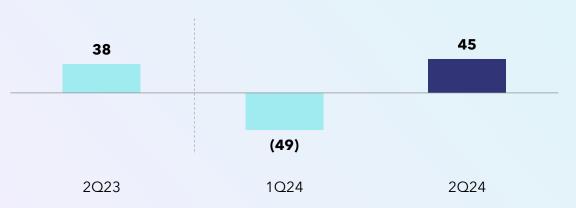
Net generation (GWh)

QoQ: -2.1%. YoY: n.a.



Profit Contribution to BPP (THB M)

QoQ: +192% YoY: +18% Based on Banpu Power's 13.4% interest







China solar:

total equity capacity of 177 MW_{dc}

Banpu Power's solar portfolio in China

Banpu NEXT's effective ownership is 100%



Equity capacity based on Banpu NEXT's interest

Note: RMB1.0/kWh of FiT and subsidies for Jinshan, Haoyuan and Huineng phase 1, RMB0.83/kWh for Huineng phase 2, RMB0.98/kWh for Hui'en and RMB0.87/kWh for Deyuan

Average capacity factor (%)



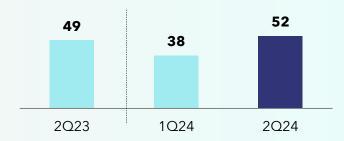
Power sold (GWh)

QoQ: +36% YoY: +5%



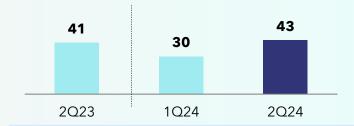
Revenue (RMB M)

QoQ: +37% YoY: +6%



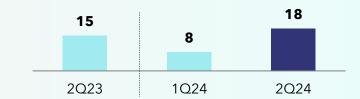
EBITDA (RMB M)

QoQ: +43% YoY: +5%



Net profit (RMB M)

QoQ: +125% YoY: +20%



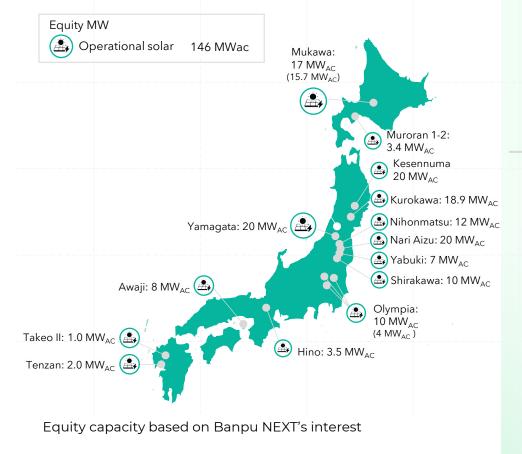


Japan solar:

total equity capacity of 146 MW_{ac}

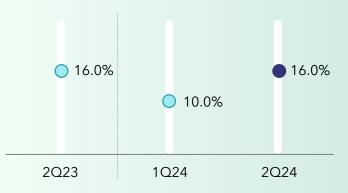
Banpu Power's solar portfolio in Japan

Capacity presented on a 100% basis and Banpu NEXT's equity capacity in parentheses; figure not drawn to scale



Average capacity factor (%)

QoQ: +6% YoY: 0%



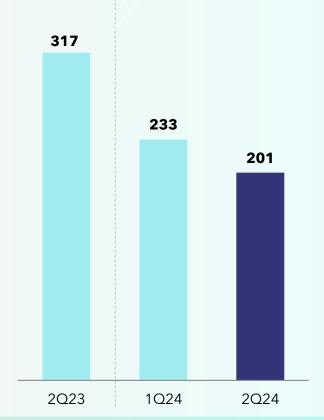
Power sold (GWh)

QoQ: +59% YoY: +10%



Cash Distribution⁽¹⁾ (JPY M)

QoQ: -14% YoY: -37% Based on Banpu NEXT's 40-100% interest



(1) From TK investment



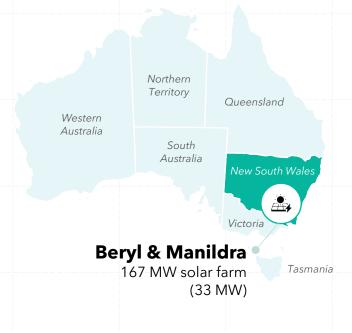
Australia solar: Beryl and Manildra

Banpu Power's solar portfolio in Australia

Equity Capacity (1) (MW)



Operational solar 33 MW



Note: (1) Equity capacity based on Banpu NEXT's interest, with the remaining 134 MW held by Banpu Group

Average capacity factor (%)

QoQ: -9% YoY: +1%



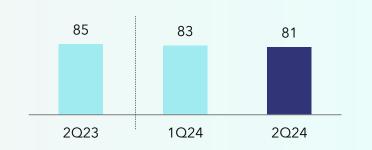
Power sold (GWh)

QoQ: -39% YoY: +5%



Average Power Tariff (A\$/MWh)

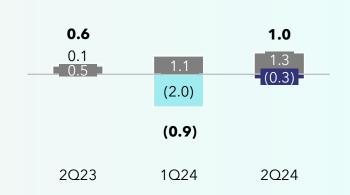
QoQ: -2% YoY: -5%



Net profit (A\$ M)

QoQ: +211% YoY: +67% Based on Banpu NEXT's 20% interest

Gain (loss) on derivatives





Vietnam renewables:

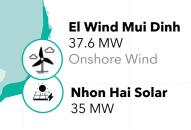
solar and wind

Banpu Power's renewables portfolio in Vietnam

Average wind speed at 100 m height (m/s)





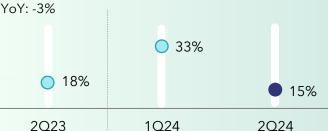


Equity capacity based on Banpu NEXT's interest

Average capacity factor (%)

WIND





SOLAR

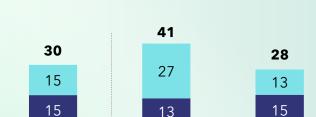




Power sold (GWh)



2Q23

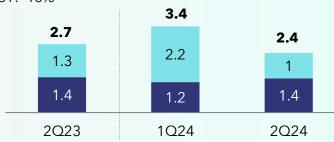


1024

Revenue (US\$ M)

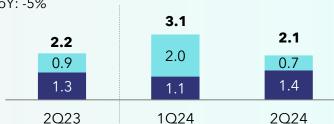
Based on Banpu NEXT's 100% interest





EBITDA (US\$ M)

QoQ: -32% YoY: -5%



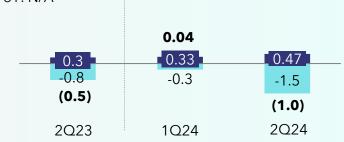
Net profit (US\$ M)

QoQ: N/A YoY: N/A

Wind

Solar

2Q24





Energy technology: current position and future targets

794 Units EVs (Battery + 2-Wheelers)

		2Q24	2025 target	
	Solar: rooftop & floating	258 MW Committed capacity	500 MW	2030 target
÷	Battery & ESS solutions Battery production capacity	3.0 GWh	6.0 GWh	
	Battery farm	In progress	58 MWh	INTEGRATED CLEAN ENERGY
	Smart cities & energy management	27 projects Energy management, smart infra, etc.	60 projects	ECOSYSTEM
	Energy trading	831 GWh Electricity sales (1H24)	2,400 GWh	
1	E-Mobility	337 MWh Electricity sales (MuvMi battery & charger)	MaaS	

Mobility-as-a-service



(0-0)

Energy technology: 2Q24 rooftop and floating solar updates

ACCELERATING DEVELOPMENTS ACROSS BANPU GEOGRAPHIES

THAILAND

100 MW

Total committed capacity

- New contract signing with C.N.I. Engineering Supply Phase 2 and Impact Challenger Phase 2 Production for a total capacity of 0.6 MW in 2024.
- New commercial operations with NSL Food, TTB Industry, S.C.S. Shoes, Apex-Smart Place, Rugby School Phase 5 and T.A.C. Consumer for a total capacity of 2.9 MW.

CHINA

66 MW

Total committed capacity

 Committed capacity of solar rooftop project at Zhengding. CHP, with a current operating capacity is 15.4 MW.

VIETNAM

62 MW

Total committed capacity

 Committed capacity of solar rooftop project for Solar ESCO, with a current operating capacity of 30 MW.

INDONESIA

32.3 MW

Total committed capacity (1)

- IBP has signed additional solar rooftop PPA of 5 MW in 2Q24.
- Currently, the total installed capacity is approximately 8 MW.



Energy technology: 2Q24 battery and ESS solutions updates

SVOLT ENERGY (THAILAND)'S BATTERY PACK FACTORY

2.0 GWhProduction capacity

2,269 Units

2Q24 production output

STRATEGIC FOCUS SEGMENTS:



E-mobility

DP NEXT PRODUCTION PLANT (AMATA CITY, CHONBURI)

1.0 GWh

4Q24

90%

Production capacity

Expected COD

Construction progress

(Pending machine installation)

PROJECT UPDATES

Plant renovation and factory acceptance tests are completed. Machine installation is on track to finish by September 2024.

IWATE TONO PROJECT

58 MWh

2Q25

97%

Capacity

Expected COD

Construction progress

PROJECT UPDATES

Phase 2 of the construction of extra high-voltage electric equipment and the substation is ongoing without any delay of the planned construction schedule, which is due at the end of October 2024.









Energy technology: 2Q24 energy management updates

DISTRICT COOLING SYSTEM (DCS) AT GOVERNMENT CENTER ZONE C (BANGKOK) THROUGH BANPU NEXT AND SP GROUP'S JV

12,600 RT

Chilled water management capacity (1) 4024

Expected full operation

92%

Construction progress (July 15th)



PROJECT UPDATES

4024 30 Apr'24 3024



1st operation milestone: achieved 2.000 RT

2nd operational milestone: up to 7,000 RT

3rd operational milestone: up to 12,600 RT

ENERGY EFFICIENCY IMPROVEMENT THROUGH BANPU NEXT ECOSERVE

BANPUNEXT **EcoServe**

25 Contracts

Including BOOT, EPC, SOLAR and IFM contracts 22,600 RT

Chilled water management capacity 2,800 kW

Compressed air management capacity

KEY UPDATES

Banpu NEXT EcoServe has been awarded the contracts to manage chiller plants for SB Design Square Phuket and SB Design Square CDC - Bangkok







Energy technology: 2Q24 e-mobility updates

MUVMI'S E-TUKTUKS JOIN THE GOVERNMENT'S ELECTRIC PUBLIC VEHICLE SUPPORT PROGRAM

muvmi

PROGRAM DETAILS

NEX 2 e-tuktuks

Registered vehicle models

103 e-tuktuks

Registered vehicles, out of 582 in the government's program

Safety measures

Quality manufacturing and safety equipment installed

MUVMI'S JOURNEY SO FAR

Over 13 million

Trips serviced

Over 1,000 jobs

Created for drivers of diverse ages and genders

Over 2,700 tCO₂e

GHG emissions reduction

New service

routes

Expand to the west side of Bangkok in Q4'2024

Extend from Wongwian Yai to Icon Siam



IMPLEMENTED AN ADVANCED MARKETING & SALES STRATEGY WITH MARKET-DRIVEN PRICING AND SECURED SUPPLY AGREEMENTS VIA A COMPETITIVE TENDERING

831 GWh

1H24 accumulative sales

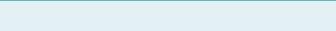
1,286 clients

Increasing from 707 clients in 1Q24

8 utility areas

From both private and public sectors

45% of total sales are market-linked price products, while the remaining sales are fixed-price contracts secured through tendering and hedged to minimize potential risks.









Energy technology: 2Q24 CVC updates

EXPANSION INTO TRADING-AS-A-SERVICE WITH INVESTMENT INTO ENSPIRED

Enspired provides real-time information on energy assets and fully-automated trading-as-a-service to utilities, asset developers, VPP operators and energy funds.

EUR 3 M

Investment amount

c. 4%

Ownership

INVESTMENT RATIONALE

This investment gives access to high quality AI and technology from Europe to enhance Banpu NEXT's battery and energy trading operations

TRADING-AS-A-SERVICE PLATFORM

Optimize customer's commercial batteries, renewable, flexible thermal and hydro assets

Connects flexible assets to the platform

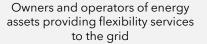
Flexible Assets (Customers)











Power Asset Optimization & Trading Platform



enspired

- Digitalized asset-light trading model (c. 70% automated)
- Optimization through Al and data analytics

Optimize trading revenue of customers by arbitraging ancillary service auctions and wholesale or spot market Trading revenue optimization

Trade execution for customers

Energy Markets

> epexspot



Focus on short-term spot and intraday energy market.





ESG recognition





Prepared by SET, shortlists Thai companies with business and sustainability excellence

for SET-listed companies with market cap. between THB 30-100 bn

Commended Sustainability Award

For outstanding sustainability practices, inclusive corporate governance, and dedication to minimizing negative impacts, while creating positive ones for society and the environment

Outstanding Company Performance Award

For outstanding performance, good corporate governance and adherence to regulations of the SET

Outstanding CFO Award

Presented to CEOs with moral values, visionary leadership, and a commitment to prioritizing sustainability practices

Credit rating



A Strategic Partner of S&P Global

As a strategic partner of S&P Global, Tris Rating has over 20years of experience as a leading credit rating agency in Thailand





SET awarded for strong ESG disclosures, including environmental management practices and interactions with key stakeholders



5 stars

5 coins

for the CGR Checklist 2023 from the Thai Institute of Directors Association (IOD) and the AGM Checklist 2023 from the Thai Investors Association (TIA), respectively



5th Consecutive vear

The THSI, prepared by SET, shortlists Thai companies following the highest ESG standards

Most Sustainable **Energy Company** Thailand 2024

Global Business Outlook Magazine recognizes industry leading ESG companies globally.

Д+

ratings with a 'stable' outlook on the company, reflecting the company's stable cash flow, proven track record of strong operations and quality of power portfolio

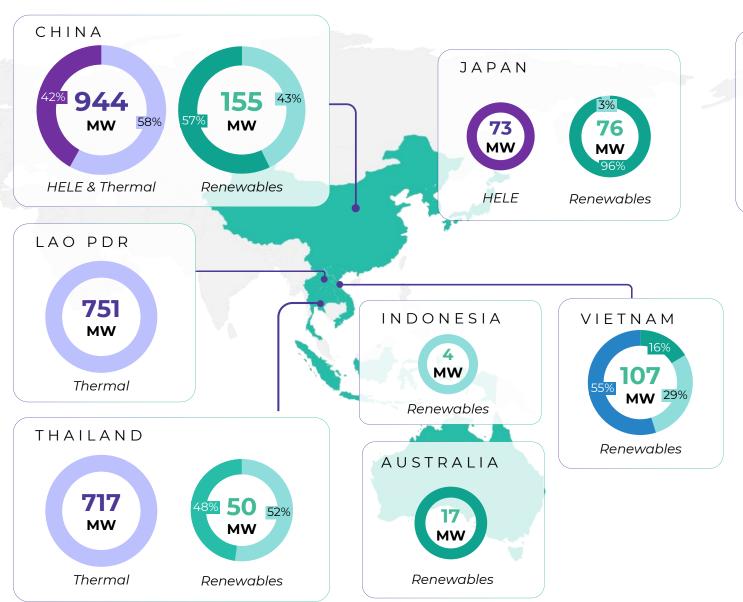


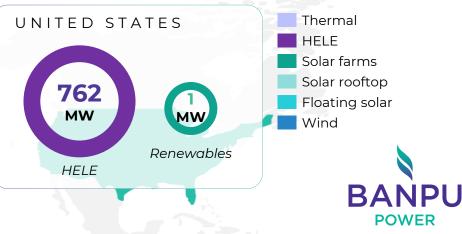






Banpu Power's robust and diversified global portfolio





Leading power-generating company operating both thermal and renewable power in 8 countries

Committed equity capacity and target







WABLES



Thermal Power: 2Q24 updates



HPC

Operating smoothly as planned, with high EAF and net generation, resulting in increased profit sharing.

94% EAF (1) (+4% YoY)

THB 6.4 bn Revenue

THB 3.9 bn EBITDA

THB 1.1 bn share of profit



BLCP

Achieved high EAF while managing operations without planned maintenance, leading to impressive profits from increased revenue and effective cost control.

98% EAF (-2% YoY)

THB 4.8 bn Revenue

THB 1.1 bn EBITDA

THB 0.3 bn share of profit



SLG

Reduced power sales due to the reserve shutdown of Unit 2 resulted in decreased revenue and profit sharing.

940 GWh

net power sold (-6% YoY)

RMB 1.0 M

share of profit



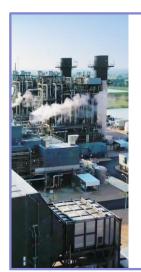
China CHP

Lower YoY electricity sales due to reduced steam demand at Zouping and Zhengding. Higher QoQ Time-of-Use (ToU) mode at Zhengding and lower coal prices led to improved profits.

RMB 224 M Revenue

RMB 30 M EBITDA

RMB 5 M share of profit



Temple I & II (3)

Increased power sales boosted EBITDA, but net profits were affected by finance costs associated with business expansion.

94% EAF (+17% YoY)

2,107 GWh net generation

US\$ 125 M Revenue

(US\$ 8 M) share of loss (2)



Nakoso IGCC

Nakoso completed yearly maintenance on June 6th, 2024

27% EAF

284 GWh net generation

THB 45 M share of profit

Note:: (1) Equivalent Availability Factor (EAF) is a percentage of a given operating period in which a generating unit is available without any planned and unplanned shutdown or deratings

- (2) Includes US\$ 6 M of loss on derivatives
- (3) Recognized Temple II since July 2023



Renewable Power: 2Q24 updates



China Solar

Higher power sold from improved irradiation.

17% avg. capacity factor

64 GWh power sold (+5% YoY)

RMB 43 M EBITDA

RMB 18 M profit contribution



Japan Solar

Favorable irradiation has contributed to improved capacity factor and increased power sold YoY.

16% avg. capacity factor

69 GWh power sold (+10% YoY)

JPY 0.2 bn cash distribution



Australia Solar

Favorable weather has led to an increase in both capacity factor and power sold.

15% avg. capacity factor

40 GWh power sold (+5% YoY)

A\$ 1.0 M share of profit (1)



Vietnam Solar

Nhon Hai Solar demonstrated a consistent capacity factor and power sold.

20% avg. capacity factor

15 GWh power sold (+0% YoY)

US\$ 0.5 M share of profit



Vietnam Wind

El Wind Mui Dinh

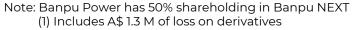
15% avg. capacity factor

13 GWh power sold (-13% YoY)

(US\$ 1.5 M) share of loss

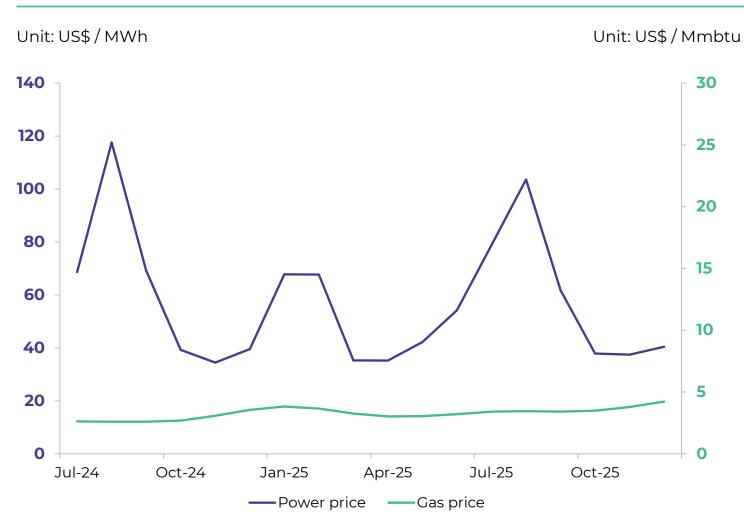


- Completed construction and commissioning activities
- On process of COD documentation with the relevant authorities



US power outlook: potential upside from weather volatility

Forecasted power and gas prices



Key takeaways

- The EIA is forecasting that average wholesale electricity prices in ERCOT will rise to \$60/MWh in 2H24 up 43% from \$42/MWh in 1H24
- Henry hub spot prices are expected to average \$2.8 Mmbtu up from an average of \$2.2 Mmbtu in 1H24
- Although temperatures for the rest of the summer are expected to be close to the 10-year average, temporary heatwaves in the remaining months could cause power price spikes.
- Forward power prices could experience sudden spikes due to abrupt transitions from El Niño to La Niña weather patterns, driving volatility in both summer and winter months

Source: EIA

Maintenance schedule for 2024

Major maintenance

Minor maintenance

POWER PLANT

BLCP

- Unit 1 on minor inspection for 18 days (1-17 Jan 2024)
- Unit 2 on minor inspection for 17 days (15-31 Dec 2024)

HPC

- Unit 1 on yearly maintenance for 22 days (21 Dec 2024 11 Jan 2025)
- Unit 2 on yearly maintenance for 22 days (3-24 Nov 2024)
- Unit 3 on extended major inspection for 55 days (24 Dec 2023 - 16 Feb 2024))

NAKOSO IGCC

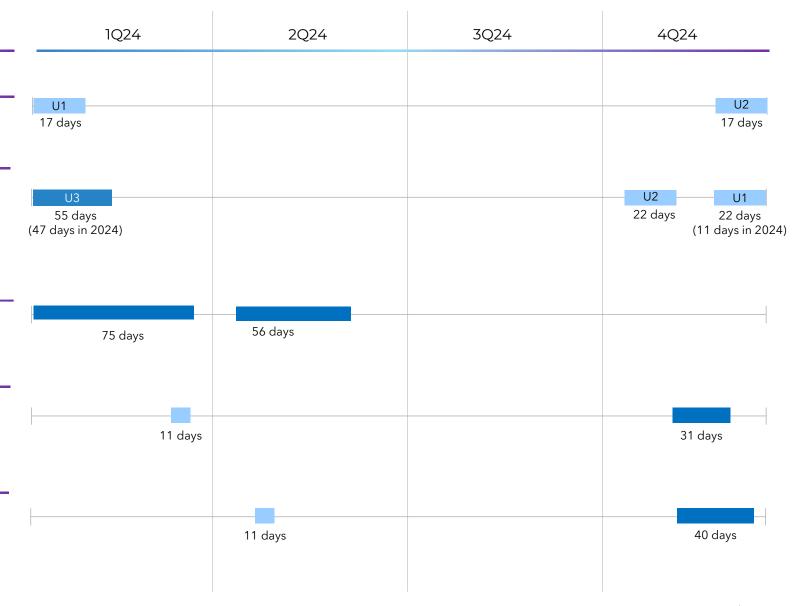
- Planned maintenance outage for 75 days (1-15 Mar 2004)
- Planned maintenance outage for 47 days (12 Apr -6 June 2024)

TEMPLE I CCGT

- Spring outage for 11 days (8 18 Mar 2024)
- Fall outage for 31 days (5 Nov 5 Dec 2024)

TEMPLE II CCGT

- Spring outage for 11 days (30 Apr 10 May 2024)
- Fall outage for 40 days (8 Nov 17 Dec 2024)



Maintenance schedule for 2024

Major maintenance

Minor maintenance



Banpu Power: income statement

THB million	2Q24	1Q24	2Q23	QoQ%	YoY%
Sales revenue	7,201.0	6,746.0	2,917.7	+4.1%	+140.6%
Cost of sales	(6,213.8)	(5,909.9)	(2,410.5)		
Gross Profit	807.2	836.14	507.2	-3.5%	+59.1%
GPM	11%	12%	17%		
Administrative and selling expenses	(429.2)	(492.0)	(491.8)		
Equity income	1,466.8	303.9	1,253.2		
Other income	166.9	174.6	225.0		
Realized gains (loss) on Derivatives	39.1	235.8	43.2		
EBIT	2,050.8	1,058.5	1,536.9	+93.7%	+33.4%
Interest expenses	(777.1)	(749.3)	(295.8)		
Financial expenses	(6.7)	(16.2)	(1.4)		
Income tax (core business)	(23.4)	(28.2)	(17.1)		
NCI / Minorities (core business)	21.8	123.3	(68.6)		
Net profit - Core business	1,265.5	388.1	1,154.0	+226.0%	+9.7%
Non-recurring items	(7.7)	(8.5)	(8.4)		
Income tax (non-core business)	(0.0)	(0.0)	(12.6)		
Deferred tax income (expenses)	(80.7)	(40.6)	(6.5)		
NCI / Minorities (non-core business)	254.5	80.8	(28.1)		
Unrealized gain (loss) on Derivatives	(509.0)	(161.6)	56.2		
FX translation	59.0	419.0	182.9		
Net Profit	981.7	677.3	1,337.6	+44.9%	-26.6%



Banpu Power 2023 financial statement adjustments

	Before	After adjustment					Difference
Unit: THB million	FY2023	1Q23	2Q23	3Q23	4Q23	FY2023	FY2023
Callan management	20.442	2.5/4	0.040	47.000	4 / 4 4	00 200	(0.0/2)
Sales revenue	30,443	3,561	2,918	17,290	4,611	28,380	(2,063)
Cost of sales	(19,886)	(3,624)	(2,410)	(9,241)	(4,846)	(20,122)	(236)
Gross Profit	10,557	(63)	507	8,049	(235)	8,258	(2,299)
GPM	35%	-2%	17%	47%	-5%	57%	22%
Administrative and selling expenses	(2,192)	(458)	(492)	(588)	(654)	(2,192)	-
Equity income	5,009	2,456	1,253	537	763	5,009	-
Other income	783	136	225	108	314	783	-
Realized gains (loss) on Derivatives	(3,478)	159	43	(1,899)	518	(1,178)	+2,299
EBIT	10,680	2,230	1,537	6,207	706	10,680	-
Interest expenses	(2,047)	(276)	(296)	(730)	(746)	(2,047)	-
Financial expenses	(6)	(1)	(1)	(2)	(2)	(6)	-
Income tax (core business)	(147)	(5)	(17)	(5)	(119)	(147)	-
NCI / Minorities (core business)	(1,925)	192	(69)	(2,552)	504	(1,925)	-
Net profit - Core business	6,554	2,139	1,154	2,918	344	6,554	-
Non-recurring items	(137)	(5)	(8)	(4)	(119)	(137)	-
Income tax (non-core business)	(57)	(4)	(13)	(23)	(17)	(57)	-
Deferred tax income (expenses)	(199)	38	(7)	(455)	225	(199)	-
NCI / Minorities (non-core business)	807	(13)	(28)	573	275	807	-
Unrealized gain (loss) on Derivatives	(1,613)	25	56	(1,145)	(549)	(1,613)	-
FX translation	(36)	(66)	183	236	(389)	(36)	-
Net Profit	5,319	2,114	1,338	2,099	(231)	5,319	-



Banpu Power: Sustainable Development Goals

CLIMATE ACTION

- GHG emissions intensity < 0.676 ton CO2e/MWh</p>
- **O** Disclose climate change information according to TCFD
- Establish business continuity management system and conduct drill at all operating assets
- 100% coverage of critical business function conduct business continuity plan drill

RESPONSIBLE CONSUMPTION AND PRODUCTION

- Water consumption intensity Target: < 0.868 m³/MWh (Current: 0.958 m³/MWh)
- Energy consumption intensity
 Target: < 1.55 GJ/MWh (Current: 2.3 GJ/MWh)
- 🚺 100% re-used/recycled of fly ash and bottom ash
- All operational control assets assessed for potential biodiversity impact

INDUSTRY, INNOVATION AND INFRASTRUCTURE

- **O**Ultra-low emissions intensity
- No significant environmental and social incident
- No significant ESG complaint from communities
- All combined heat and power plant in China was certified ISO 14001.
- Cybersecurity and privacy maturity score > 2.5







PEACE JUSTICE AND STRONG INSTITUTIONS

- Achieve zero incidents involving noncompliance, corporate governance and corruption
- 100% of significant corporate governance complaints resolved through a dispute mechanism
- Be a member of the Thai Private Sector Collective Action Against Corruption (CAC)

AFFORDABLE AND CLEAN ENERGY

- Power gen. capacity
 Target: 5,300 MW | Current: 3,534 MWe
- Availability Factor (AF) > 90%
- Forced Outage Factor (FOF) < 5%
- **6** Key ESG issues are part of senior management's KPI

DECENT WORK AND ECONOMIC GROWTH

- No major incident and occupational illness in employees and contractors
- Employee Engagement score: [TH] Target: >70% (Current: 57%) [CH] Target: >85% (Current: 91%)
- Banpu Heart Score: > 70% in TH and >90% in CH
- 🥨 No significant human rights complaints
- No complaint about customer privacy and product use



