



Banpu FY23 & 4Q23 results

Opportunity Day

12th March 2024



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01

Highlights 2023

Banpu strategy: embracing a sustainable transformation

2000-2015

PHASE I

RELIABLE,
AFFORDABLE ENERGY,
APAC GROWTH

Coal



Power



Renewables



Diversification into
international coal, power,
and renewables

2016-2020

PHASE II

GREENER,
SMARTER
TRANSITION



Rapid portfolio transformation to
lower-carbon asset mix with
integrated value chain synergies

2021-2025

PHASE III

GREENER, SMARTER
FASTER ➡

ACCELERATE

Greener, Smarter growth transitions

ANTIFRAGILE

Portfolio diversification for resilience

AUGMENTATION

Leverage Banpu's core competencies for
new opportunities

Driving sustainable long-term value
creation and strong cashflow generation,
while accelerating portfolio transformation

Banpu 2023: highlights

ROBUST CASH FLOW GENERATION

\$1,562 M
2023 EBITDA

\$160 M
2023 NPAT

Strong contributions from Power business, while maintaining positive cashflow generation of Coal and Gas during volatile commodity price environment.

0.90x
2023 ND/E

ND/E maintained at same level with previous quarter

CAPITAL RAISING FOR GREENER, SMARTER TRANSITION

Successfully increased capital (Banpu-W5) to accelerate the Greener, Smarter progress and strengthen Banpu's capital structure

KEY FINANCIAL METRICS

RECOGNITION OF EXCELLENCE*

10 Consecutive years

Recognized as a constituent of DJSI for conducting business with the highest ESG standards.

Member of
**Dow Jones
Sustainability Indices**

Powered by the S&P Global CSA



A+ Credit rating

with a **'stable'** outlook on the company and senior unsecured debentures reflecting the company's stable business growth.



*Full ESG leadership and credit rating recognition can be found in the appendix

Future
trends
Ahead&Awards
2024

Banpu received two awards from the Future Trends Ahead & Awards 2024 hosted by Future Trends, a news and media provider focused on business, technology, and innovation.



“Corporate Transformation”

For demonstrating Banpu's transformation journey through its Greener, Smarter Business Transformation, organization-level Digital Transformation, and empowering People Transformation to drive future success.



“Leading of ESG”

For being a role model in creating sustainable business growth through Banpu's commitment to ESG practices and environmental stewardship in its business operations in Thailand and globally.

2023 achievements: enhancement of Greener, Smarter portfolio

EMBRACING A SUSTAINABLE TRANSFORMATION

By enhancing management strength, ensuring financial stability, and establishing a value-creating Greener, Smarter portfolio

1Q23	2Q23	3Q23	4Q23
 durapower Durapower increase to 65.1% stake ▲ from 47.7%	 EVOLT increase to 23.81% stake ▲ from 20%	 Significant expansion in US Temple II acquisition +755 MW	 SVOLT (Thailand) JV 40% stake
 Green Li-ion acquisition 4.51% stake	 First Banpu battery farm Iwate Tono battery farm 58 MWh		 First Banpu CCUS* project Barnett Zero CCUS project First CO ₂ injection
	 Oyika acquisition 14.2% stake		 Beyond Green increase to 39.18% stake ▲ from 30%
			Oyika increase to 15.91% stake

The background of the slide features a composite image. On the left, a large, semi-transparent number '02' is overlaid on a dark blue gradient. The rest of the background shows a panoramic view of a city skyline, likely Hong Kong, with a river and a bridge. A large wind turbine is positioned on the right side, and a small airplane is visible in the upper left sky area.

02

Focus:
Strategy
2024-25

Banpu strategy: integrated growth platforms



INTEGRATED ENERGY SOLUTIONS PROVIDER

Strong cashflow from **Energy Resources**



Stable cashflow from **Energy Generation**



Capture growth opportunities from **Banpu NEXT and CVC**



Banpu's Greener, Smarter transformation



Visionary leadership, agile teams

Passionate



Digital Transformation-driven

Innovative



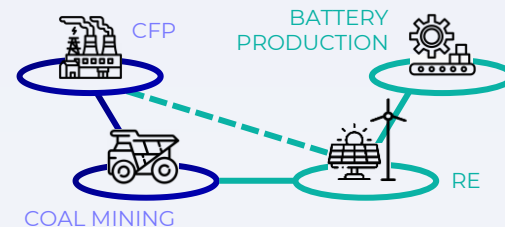
Sustainability at the core

Committed

CREATING INTEGRATED GROWTH PLATFORMS IN CORE COUNTRIES

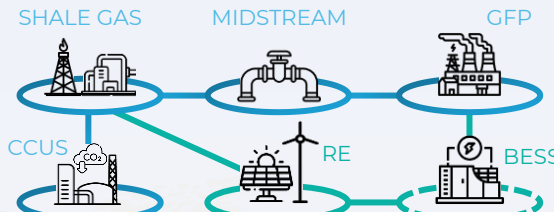
CHINA

Stable cashflows from mining and thermal power, with rapid growth in renewables and battery production



US

Integrated green gas value chain, from upstream production and CCUS to downstream gas-fired power



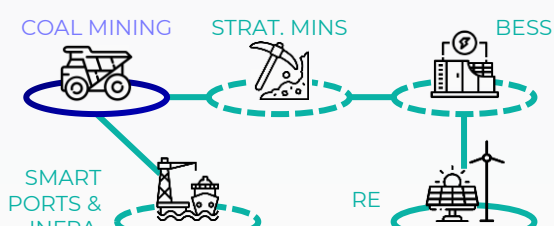
AUSTRALIA

Building on core experience to invest in clean energy businesses that are synergistic to existing operations

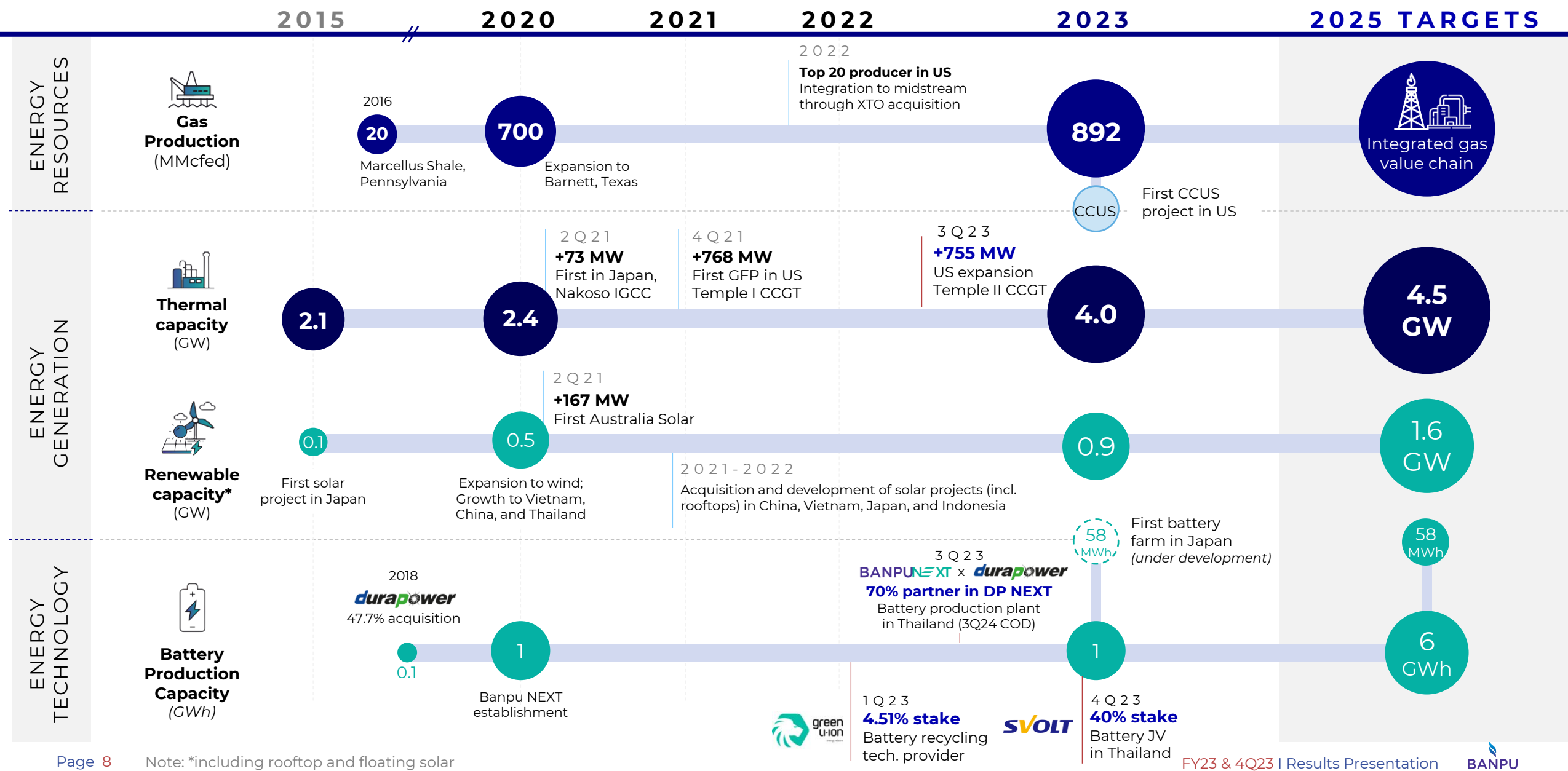


INDONESIA

Innovative platform strategy through optimization of current operations and synergistic investments



Greener, Smarter strategy: accelerated transformation progress



Strategic investments to embrace sustainable transformation

Temple II

Gas-fired power plant expansion in the US

Acquisition (Jul'23)

US\$460 M

Installed capacity

755 MW

Revenue (2023)

US\$132 M

With robust performance and cash flow contribution, Temple II continues to strengthen Banpu's US electricity ecosystem and leverage synergies with Temple I for enhanced efficiency and increased profitability.



Texas, USA

Iwate Tono

Banpu's first battery farm

Installed capacity

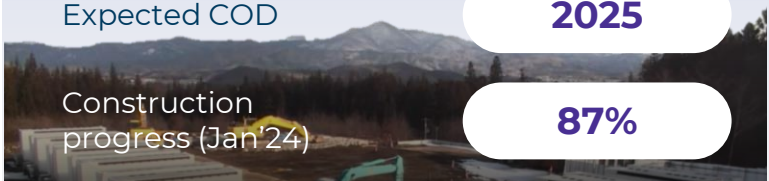
58 MWh

Expected COD

2025

Construction progress (Jan'24)

87%



Iwate Prefecture, Japan

SVOLT

Battery and ESS value chain expansion

Total investment

c. US\$20 M
(40% stake)

Committed production capacity

2.0 GWh

COD

28 Feb 2024



Chonburi, Thailand

Barnett Zero

US gas value chain decarbonization

Project cost

c. US\$34 M

First CO₂ injection

Nov. 2023

Annual CO₂ injection rate

210,000 tons

As one of the first CCUS projects in the US, Barnett Zero is a significant achievement in Banpu's mission to decarbonize, paving the way for upcoming projects in the pipeline.



Texas, USA

Banpu road to 2030

WAY FORWARD 2024-25 ▶

ENERGY RESOURCES

Mining

Responsible Mining Operator

Continued production optimization, decarbonization, and cost reduction initiatives to **maximize value and cashflow generation of existing reserves with opportunities in strategic minerals and NBS***.

Gas Extraction

Integrated Green Gas Producer

Sustainability-centric operations, reducing and offsetting of emissions from gas operations through CCUS with the **commitment to achieve Net Zero across Scope 1 & 2 by 2025**.

ENERGY GENERATION

Thermal Power

Unique Baseload Power Portfolio

Striking balance between generating stable cashflow from PPA-based assets and capturing high upside potential of assets in merchant markets.

Renewables

Quality green megawatts

Increased emphasis on the strategic synergies of renewable energy and electricity trading in key growth regions for higher upsides.



GREENER, SMARTER, FASTER, STRONGER

Net Zero Solution Provider

ENERGY TECH.

Investment portfolio

New S-curve in energy & beyond

Investment portfolio optimization, focusing on financial returns from existing and future investments.

Battery production and BESS

Vertically-integrated battery player

Strengthen position as an integrated battery player, expanding across the value chain from production to BESS deployment.

BANPU 2030

BUILDING AN ANTIFRAGILE PORTFOLIO



Transformation of core value

Accelerating sustainable energy transition to cleaner resources, generation, and energy technology.

Strengthening current and new integrated energy value chain across key countries, while integrating digital and AI technologies into all operations.



Sustainability-oriented growth

Focused on building an antifragile portfolio, lowering emissions, stronger returns, and strengthening portfolio resiliency and against disruptions and trends.

Banpu 2030: portfolio envisioned



Strengthening Banpu's cash position and balance sheet resilience

Focused strategy involving an integrated value chain in strategic countries

Driving initiatives for significant emission reduction and implementing AIoT* across all operations



BANPU ILLUSTRATIVE ENTERPRISE VALUE BREAKDOWN 2030

COAL-BASED

Responsible Operator

Lower exposure to coal-related businesses, focusing on extracting value from quality reserves and mines.

Aligning with global net zero ambitions, improving ESG while significantly reducing climate risks.

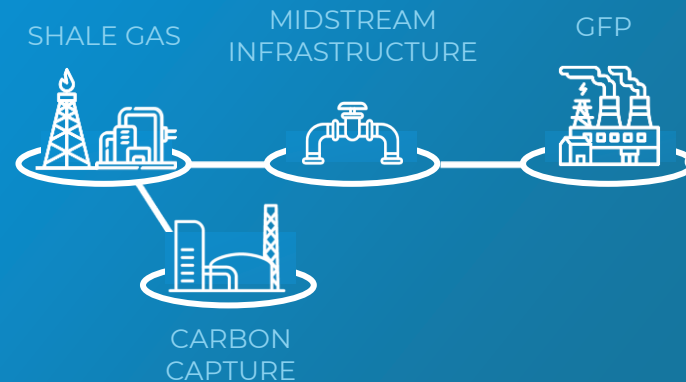


TRANSITION

Integrated Green Gas Producer

Just transition towards a lower carbon economy, focusing on sustainable operations across the gas value chain.

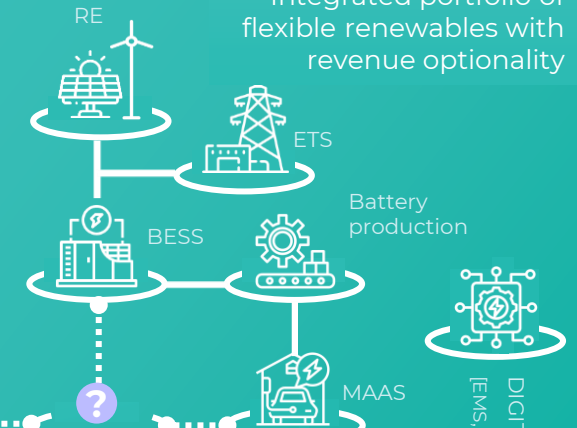
Banpu's important core cash flow generating businesses going forward as Banpu heads towards the future and lowers its reliance on carbon-intensive assets.



GREENER, SMARTER

Net Zero Solutions & Green Infrastructure

Integrated portfolio of flexible renewables with revenue optionality



GREENER, SMARTER INFRASTRUCTURE (e.g., green data centers, smart industrial estates, VPP, etc.)

- Strategic minerals
- Nature-based solutions

Support portfolio digitalization & decarbonization

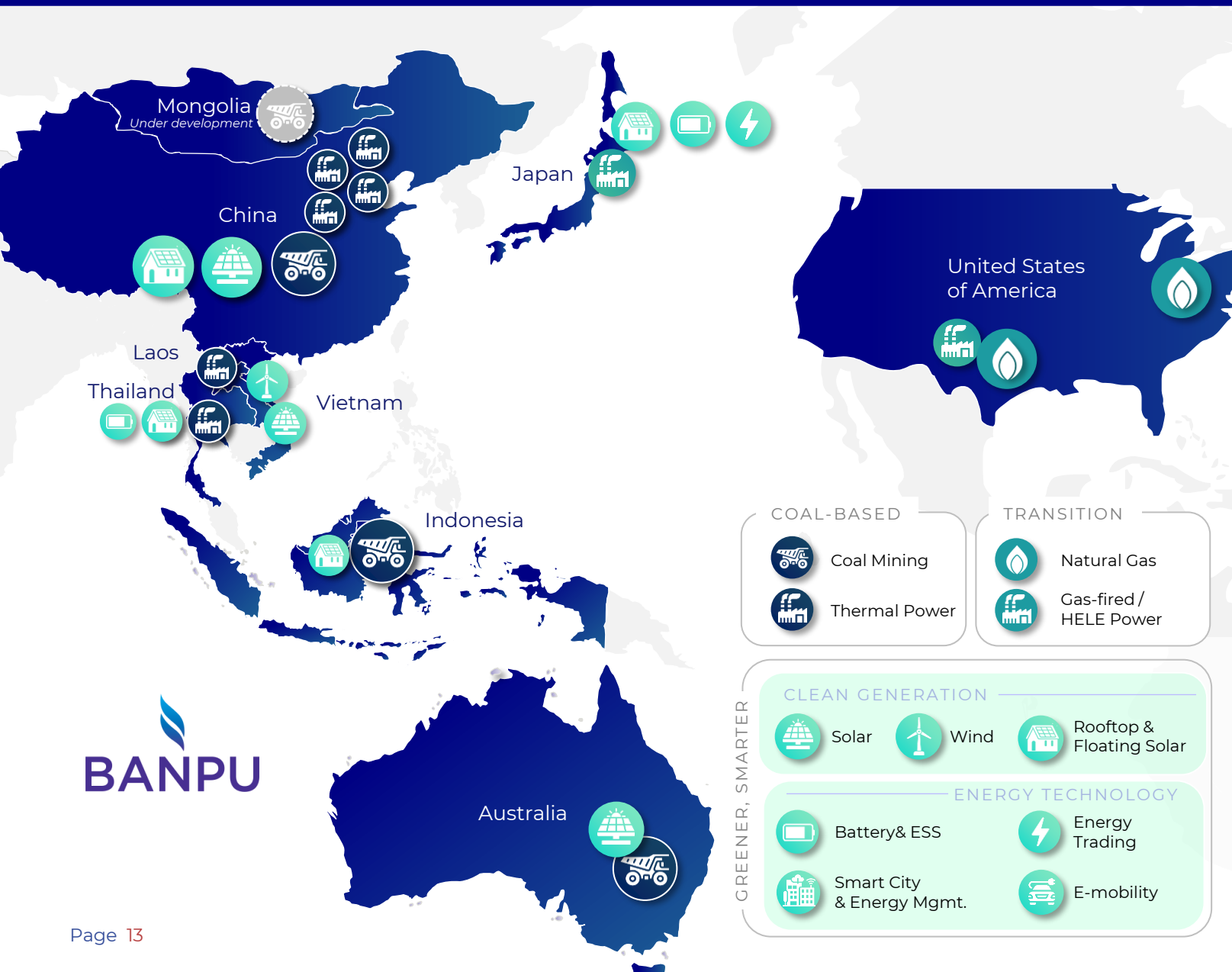
CVC

Strategic investments for antifragile hedges, synergies with core businesses, and entry to new growth sectors

03

Operation Highlights

Banpu: diversified asset portfolio across the energy value chain



BANPU OPERATION STRATEGY 2024

- 1 COST SAVINGS INITIATIVES**
- 2 OPERATIONAL EFFICIENCY & PRODUCTIVITY IMPROVEMENTS**
- 3 ORGANIC DEVELOPMENT**

Banpu's asset portfolio is diversified along the energy value chain and spread across major economies and key growth economies...

...making Banpu well-positioned to respond to volatile macro-environments heading into 2024.

EXTERNAL HEADWINDS

GEOPOLITICAL TENSION	▶	SUPPLY CHAIN DISRUPTIONS & PRICE VOLATILITY
HIGH INTEREST RATE	▶	UNCERTAIN ECONOMIC RECOVERY
CLIMATE CHANGE	▶	UNPREDICTABLE CONDITIONS

Value creation and cost saving initiatives

Value creation and cost saving Initiatives				2024 POTENTIAL COST SAVINGS	
MINING	INDONESIA	PRODUCTION IMPROVEMENT Optimizing mining sequences and minimizing fuel consumption	SUPPLY CHAIN OPTIMIZATION Enhance logistics efficiency & improving equipment management	MARKETING INITIATIVES Optimize contracts & product-market strategy for maximum value	US\$ 1.5-3.0 per ton
	AUSTRALIA	Enhance Gross Margin through machinery optimization & digital solutions	Optimize costs through strategic procurement & capital allocation	Enhance ASP through balancing sales strategies	A\$ 11 per ton
	CHINA	Enhance safety & efficiency with maintenance, speeding up longwall activation	Maximize clean coal recovery with washery plant project integration	Maximize ASP through blending market	
GAS		UPSTREAM DEVELOPMENT Maximize production & reserves with well reactivation & geological assessments	GAS OPERATIONS Reduce LOE with well shut-ins & water hauling optimization	SUSTAINABILITY Utilize Barnett Zero CCUS operations for related Net Zero initiatives	US\$ 0.06-0.07 per mcf*
	POWER	FUEL MANAGEMENT Centralize coal procurement & inventory management for cost control	POWER DISPATCH CONSISTENCY & RELIABILITY Enhancing plant reliability & output to minimize unplanned shutdown	VALUE ENHANCEMENT Optimize hedging returns & explore cleaner fuel co-firing	US\$ 14 M savings

Indonesia coal showcase: operations initiatives



EAST
KALIMANTAN

Indominco
6.5 Mt



Bontang
Coal Terminal

1

Trubaindo
2.7 Mt



Bunyut Port

CENTRAL
KALIMANTAN

Bharinto
7.1 Mt



Samarinda

2

Balikpapan

Palangkaraya

SOUTH
KALIMANTAN

Banjarmasin

Jorong Port



Jorong
0.6 Mt



Mining operations



City



Port

COST SAVING INITIATIVES IN INDONESIA

Increase production reliability and optimize mine plan

- Ensure periodic production plan to be able to meet annual target
- Optimize mining sequence to reduce hauling distance
- Improve revegetation activities by managing top-soil

Melak Mine Area Operational Cost Initiatives



Enhance equipment and machinery rental (i.e., pump and auxiliary machine)



Rehandling top-soil through direct spreading



Maximization of solar PV at Bunyut mine to reduce fuel consumption in power generation, lowering both cost and emissions



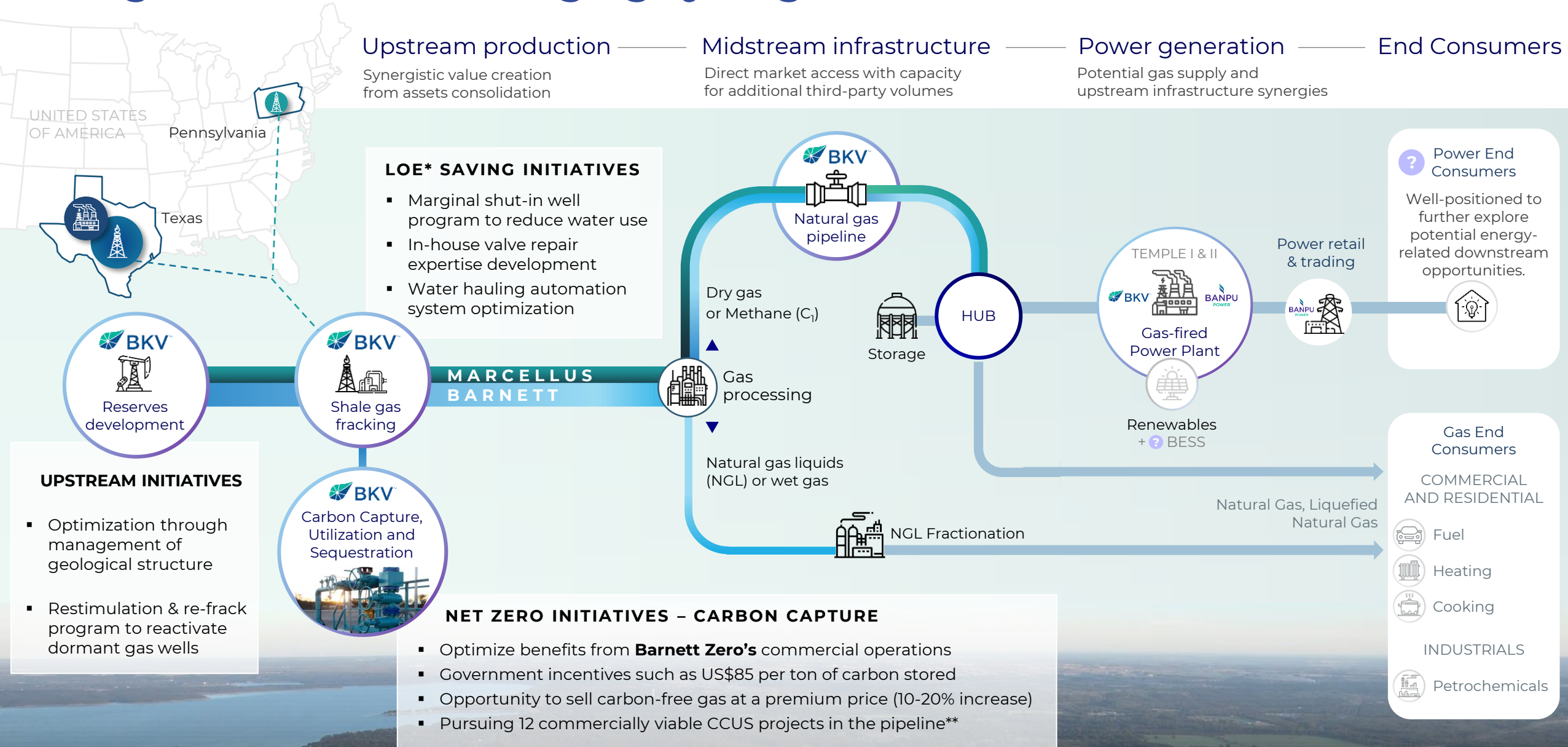
Hauling road maintenance optimization

Floating Loading Facility Cost Reduction



Rearrangement of anchorage facility from Muara Berau to Muara Jawa

US gas showcase: leveraging synergies across the value chain



04

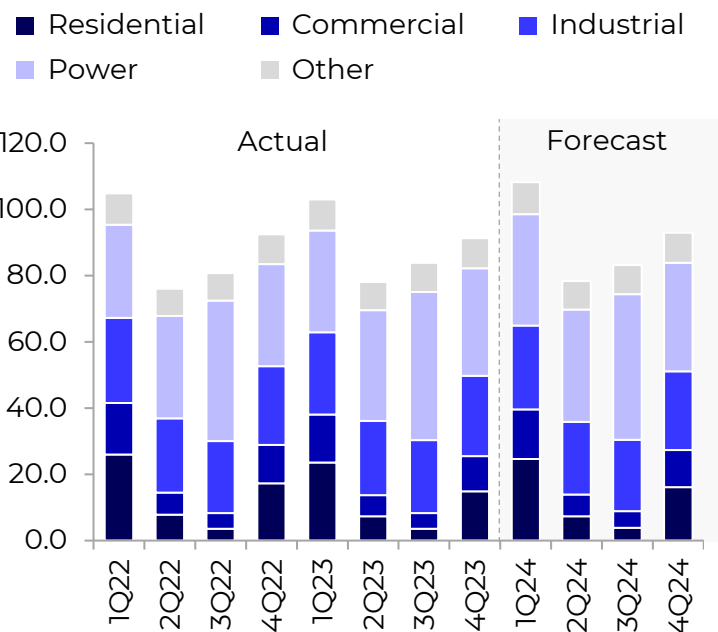
Energy Resources



U.S. gas market update

US CONSUMPTION & PROJECTION

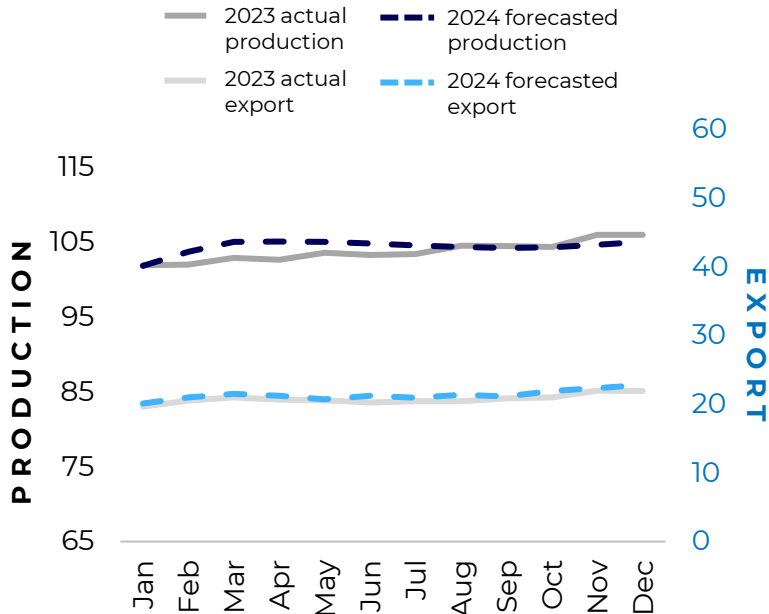
Unit: Bcf/d



- Consumption in the US averaged at 91 Bcf/d in 4Q23, up 9% from 3Q23. Residential and commercial demand surged with heightened space heating requirements, as the winter season approached.
- Consumption is forecasted to average at around 91 Bcf/d in 2024, 2% higher than in 2023.

US NATURAL GAS PRODUCTION

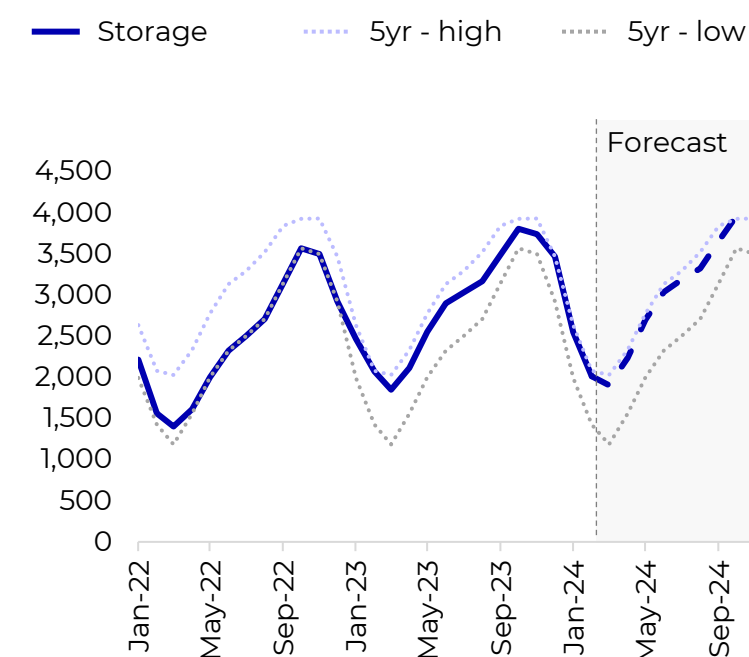
Unit: Bcf/d



- US natural gas production reached 105 Bcf/d in 4Q23, increasing by 1% QoQ and 4% YoY, driven by Haynesville production and associated gas from productive Permian Basin oil wells, partially offset by declining rig counts since 2023.
- US LNG exports averaged 13 Bcf/d in 4Q23, increasing by 12% QoQ and 23% YoY. LNG processing plants are back online after planned maintenance in the last quarter.

U.S. STORAGE LEVEL

Unit: Bcf



- Natural gas inventories in December 2023 reached 3.5 Tcf, 8% higher than the 5-year average and around 0.5 Tcf higher YoY, due to the warm start to this winter.
- EIA expects this surplus above the five-year average to continue into 2024, exerting pressure on gas prices.

Source: EIA Short-Term Energy Outlook (February 2024)

U.S. gas: Expected gas prices to Recover by 2H24

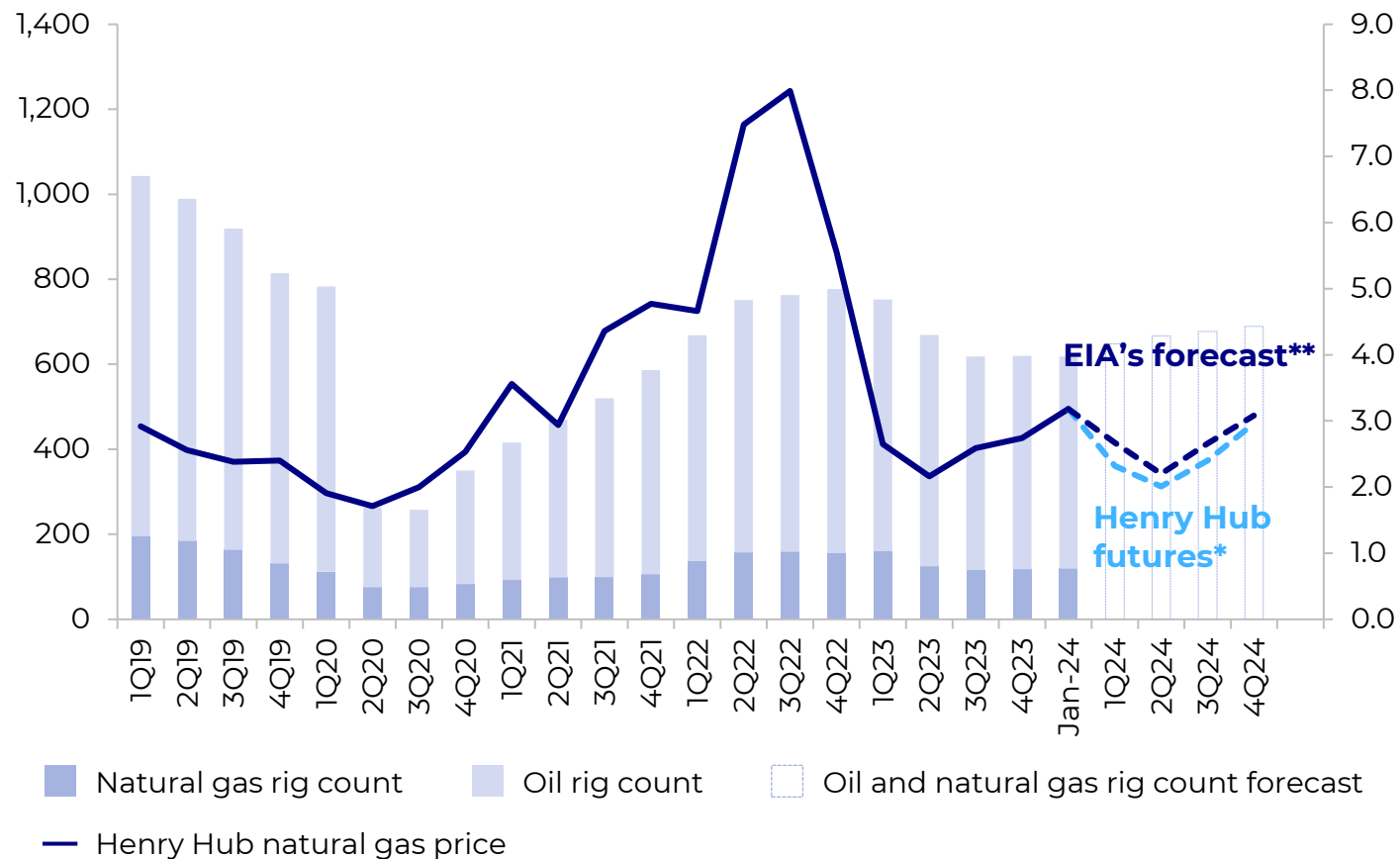
US RIG COUNT VS HENRY HUB PRICE

Us oil and natural gas rig count

Unit: rigs

Henry hub spot price

Unit: \$/MMBtu



COMMENTS

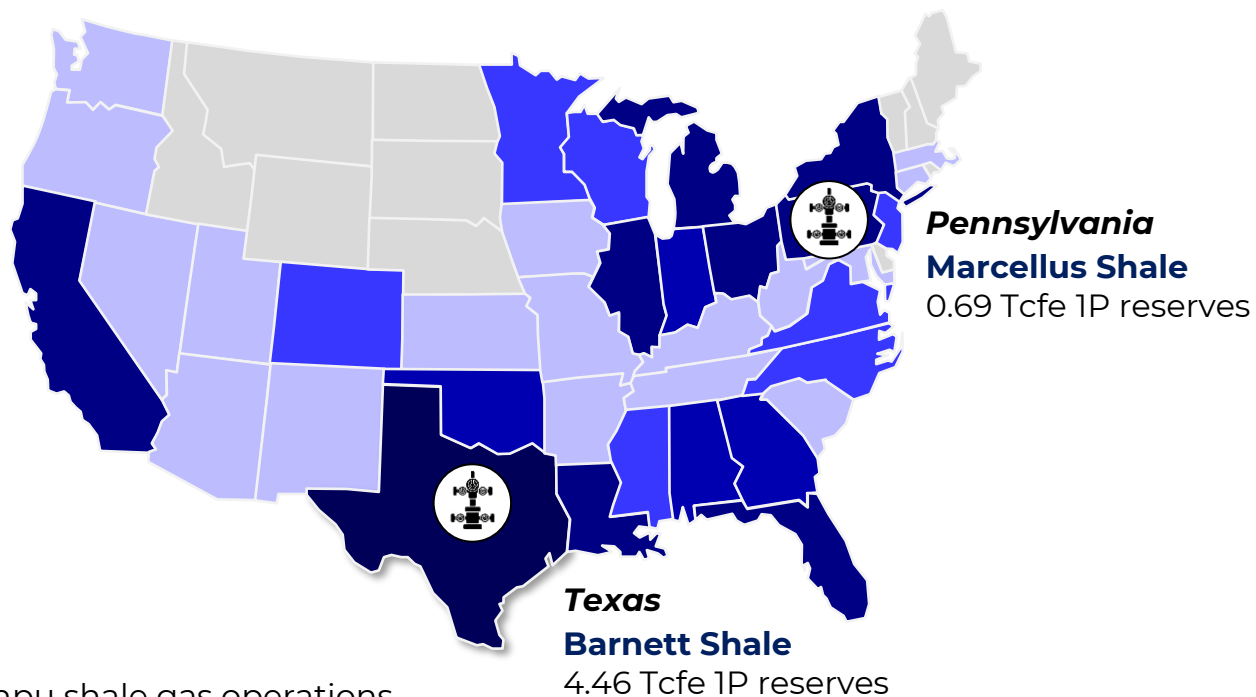
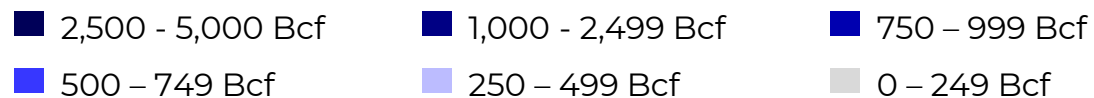
- Natural gas prices rebounded in 4Q23, with robust residential and commercial demand at the start of the winter season, balanced by elevated inventory levels and record-high gas production.
- Oil and gas rigs in 4Q23 remained consistent with 3Q23 but were approximately 20% lower than at the end of 2022.
- Forecasts indicate Henry Hub futures will stay below \$3.0/MMBtu in 1Q24 due to the current milder-than-expected winter pattern.

Note: *As of February 12th, 2024; **Short-Term Energy Outlook (February 2024)

Source: EIA Short-Term Energy Outlook (February 2024), Baker Hughes US natural gas rotary rig count (February 2024)

Banpu Gas: 2023 highlights

US DRY GAS CONSUMPTION 2022 BY STATE*



Banpu shale gas operations

Average local price**

\$2.41/Mcfe -60% YoY

Sales volume

314 Bcfe 12% YoY

EBITDA***

\$162 M -85% YoY

Notes: *As of (or, as applicable, for year end) December 31, 2022; ** Average local price = Henry Hub - basis differential; *** IFRS EBITDA. Significant differences between IFRS and BKV US GAAP EBITDAX include treatment of derivative gains and losses, depletion expense, accretion expense, stock compensation expense, BNAC expenses, equity income, and contingent consideration gains and losses for asset acquisitions

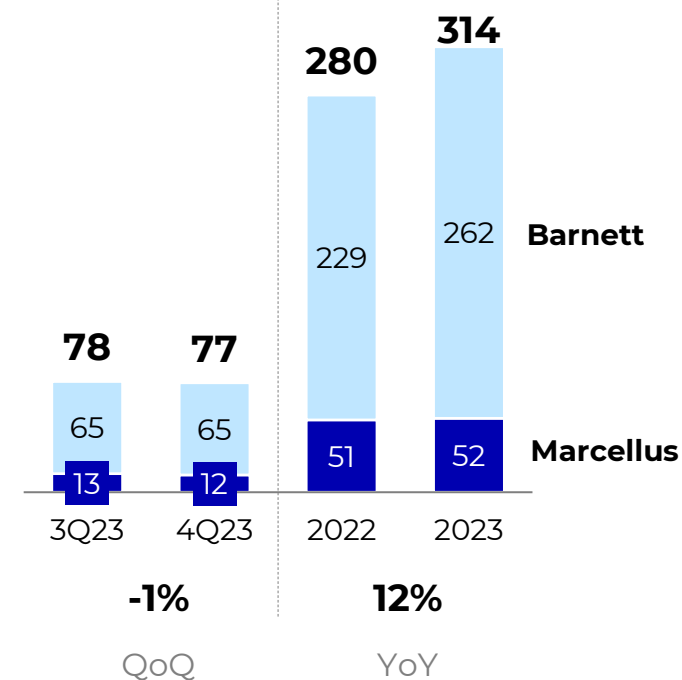
Source: EIA

Banpu Gas: 4Q23 and FY23 performance

4Q23 EBITDA of \$45 M characterizes our resiliency and ability to survive period of commodity volatility through positive cash flow generation.

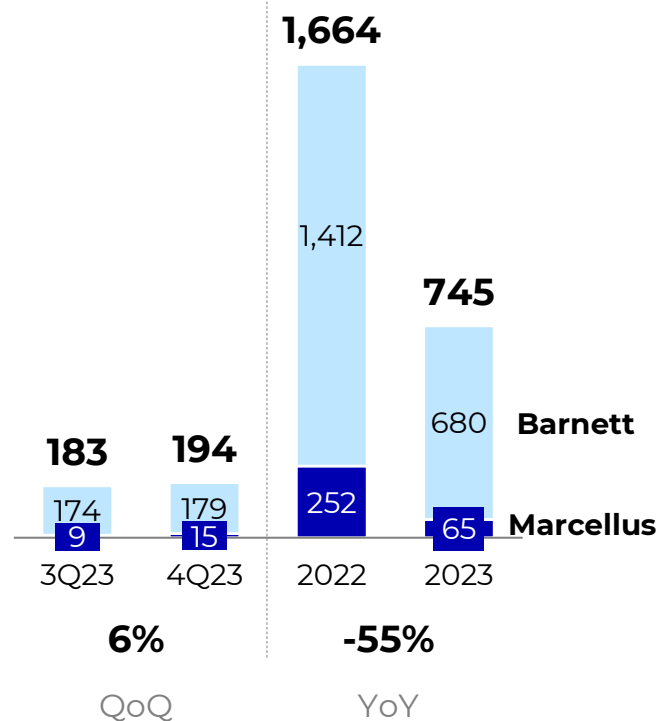
SALES VOLUMES

Unit: Bcfe*



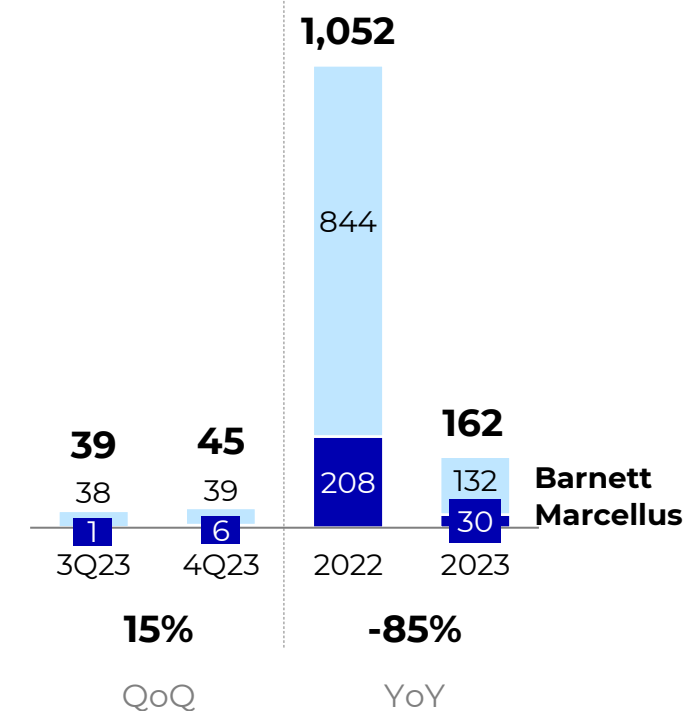
TOTAL REALIZED REVENUE**

Unit: US\$M



EBITDA***

Unit: US\$M

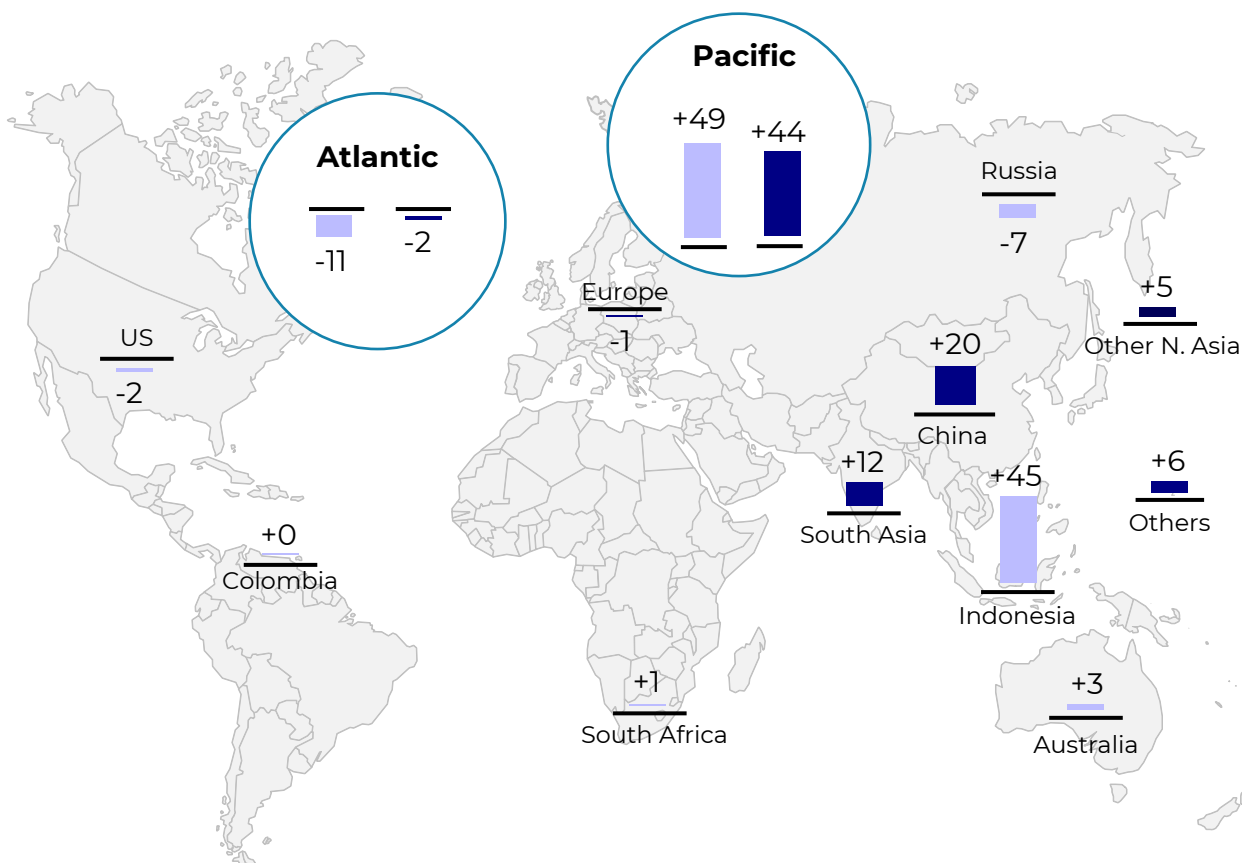


Note: *Bcfe = Billion cubic feet equivalent; **IFRS total realized revenue. Significant differences between IFRS and BKV total revenues and other operating income include net derivative gains and losses, marketing, non-operated midstream revenues, and others; ***IFRS EBITDA. Significant differences between IFRS and BKV US GAAP EBITDAX include treatment of derivative gains and losses, depletion expense, accretion expense, stock compensation expense, BNAC expenses, equity income, and contingent consideration gains and losses of asset acquisitions;

Global thermal coal market

COAL DEMAND AND SUPPLY CHANGE – 2024e VS 2023

Unit: Mt ■ Supply ■ Demand



Note: *JKT stands for Japan, South Korea and Taiwan

Demand trends

Seaborne thermal coal imports are expected to reach a new record in 2024, driven by robust demand from China, South Asia, and Southeast Asia. Asia's coal-fired generation capacity is on the rise, surpassing a decline in Europe. Safety concerns present uncertainty over China's domestic coal production.

- **China:** In coastal areas, imported coal is expected to stay competitive amid uncertain domestic supply. The forecast suggests prolonged support for coal burn due to an amplified El Niño influence.
- **India:** Persistent reliance on coal for power and non-power sectors is anticipated. Strong economic growth, a forecast of low hydro output, and domestic coal production lagging overall demand will drive robust imported coal demand.
- **JKT:** Additional coal-fired capacity will support coal burn in 2024, remaining competitive against gas. However, downside risks include increased nuclear generation and economic uncertainty.
- **Europe:** Weak coal market fundamentals, rising renewable output and low gas prices are expected to weigh on coal burn. The coal phase-out plan is likely to regain momentum.

Supply trends

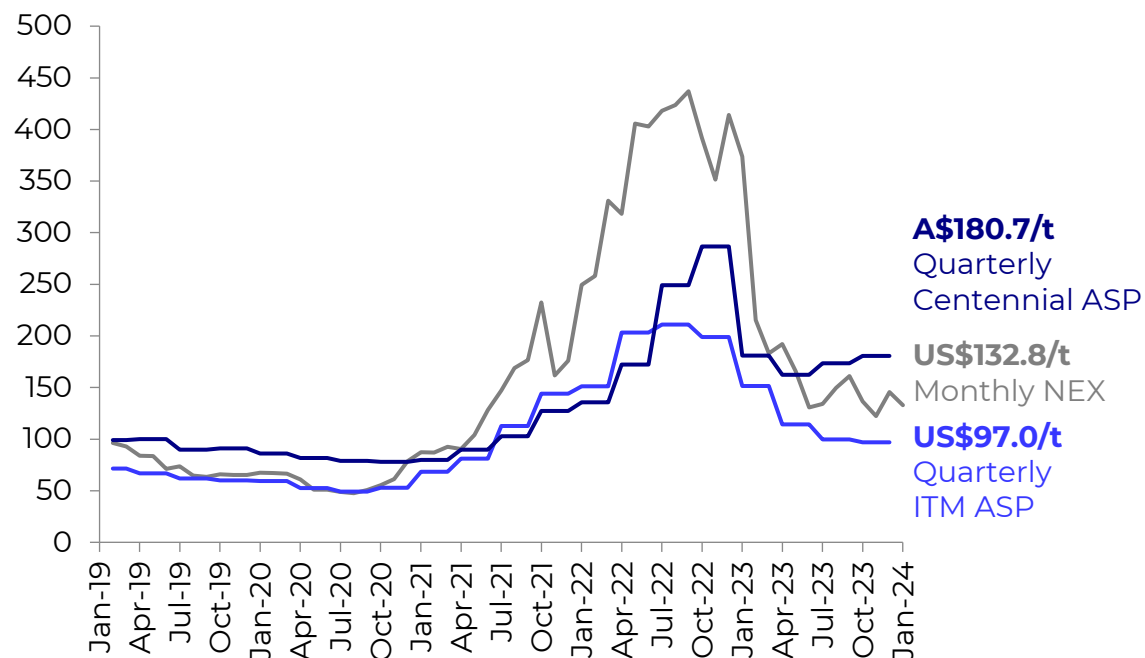
Global thermal coal supply is projected to surpass demand, primarily driven by Indonesia's robust production. The El Niño-induced drought is expected to persist, providing ongoing support to coal production.

- **Indonesia:** Exports are expected to grow further in 2024, driven by strong demand and a significant production forecast. Key miners are eager to expand output and increase market share.
- **Australia:** Anticipated marginal growth in thermal coal exports in 2024. New supply faces challenges due to rising costs and labour shortages.
- **Others:** Russian coal producers are diverting coal to Asia by offering significant discounts to gain market share. Logistic constraints continue to impact South Africa, Colombia, and the US, leading to coal diversion to Asia amid declining European demand.

Banpu ASPs vs thermal coal benchmark prices

BANPU ASP VS BENCHMARK PRICES

Unit: US\$/t; A\$/t for CEY



COMMENTS

- The seaborne premium thermal coal market remained stable throughout 4Q23, with the weekly GCNewc fluctuating within a narrow range of \$120-150 per ton.
- Similarly, the market for lower-quality thermal coal remained stable in 4Q23. ICI2 hovered between \$92-97 per ton, ICI3 within \$79-83 per ton, and ICI4 maintained a narrow range of \$57-62 per ton. Despite increased supply from Indonesia, robust import demand from China in 4Q23 provided significant support to the price levels of lower specification thermal coal market.
- We anticipate a continuation of steady growth in the global seaborne thermal market through 2024, with overall supply and demand dynamics expected to tighten, particularly for lower-mid calorific value (CV) coal due to strong demand from China and India.

NEX** (23 February 2024)

US\$124.9/t

ITM ASP* (4Q23)

US\$97.0/t

-3% QoQ

CEY ASP (4Q23)

A\$180.7/t

+4% QoQ

ASP domestic (4Q23)

A\$148.3/t

+3% QoQ

ASP export (4Q23)

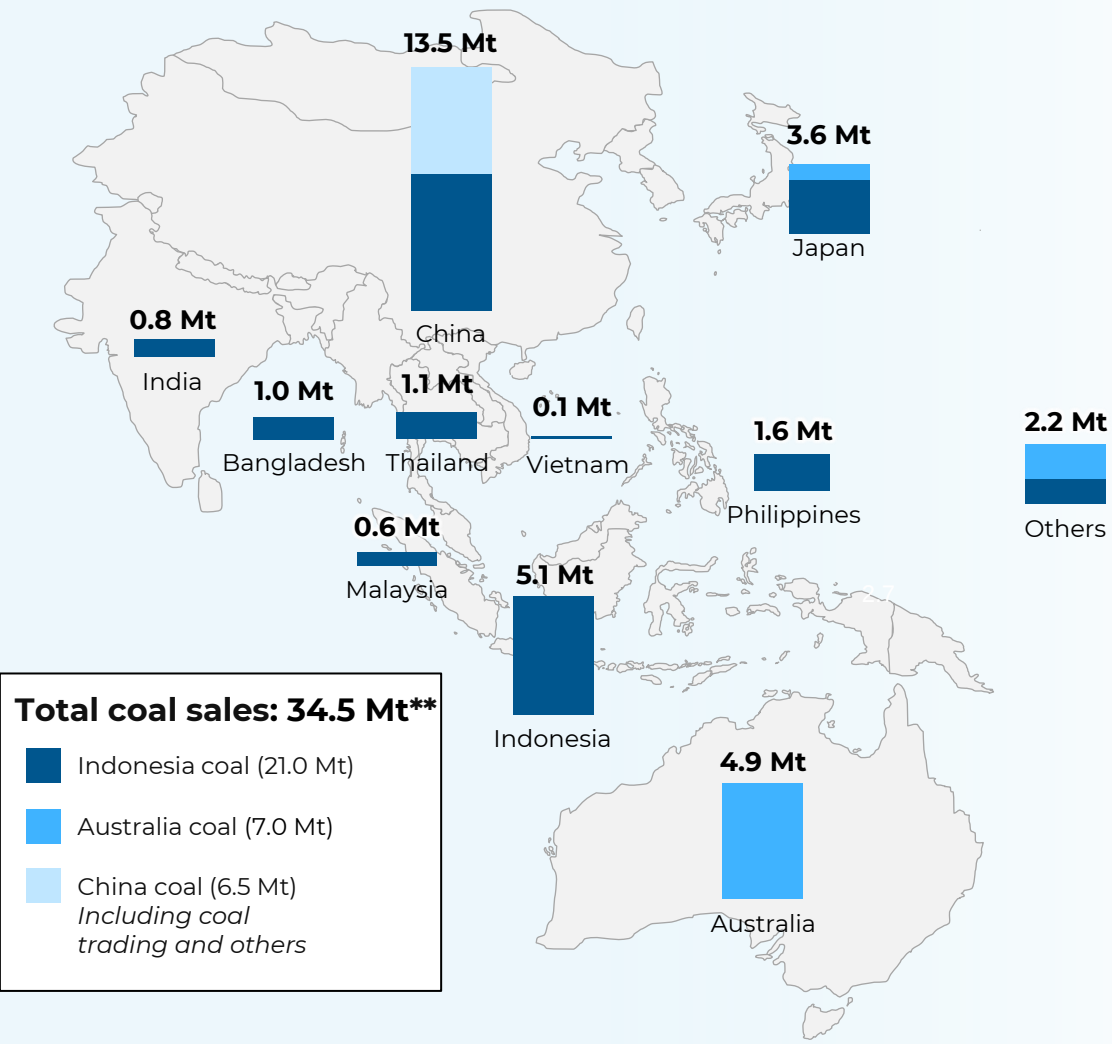
A\$247.5/t

-7% QoQ

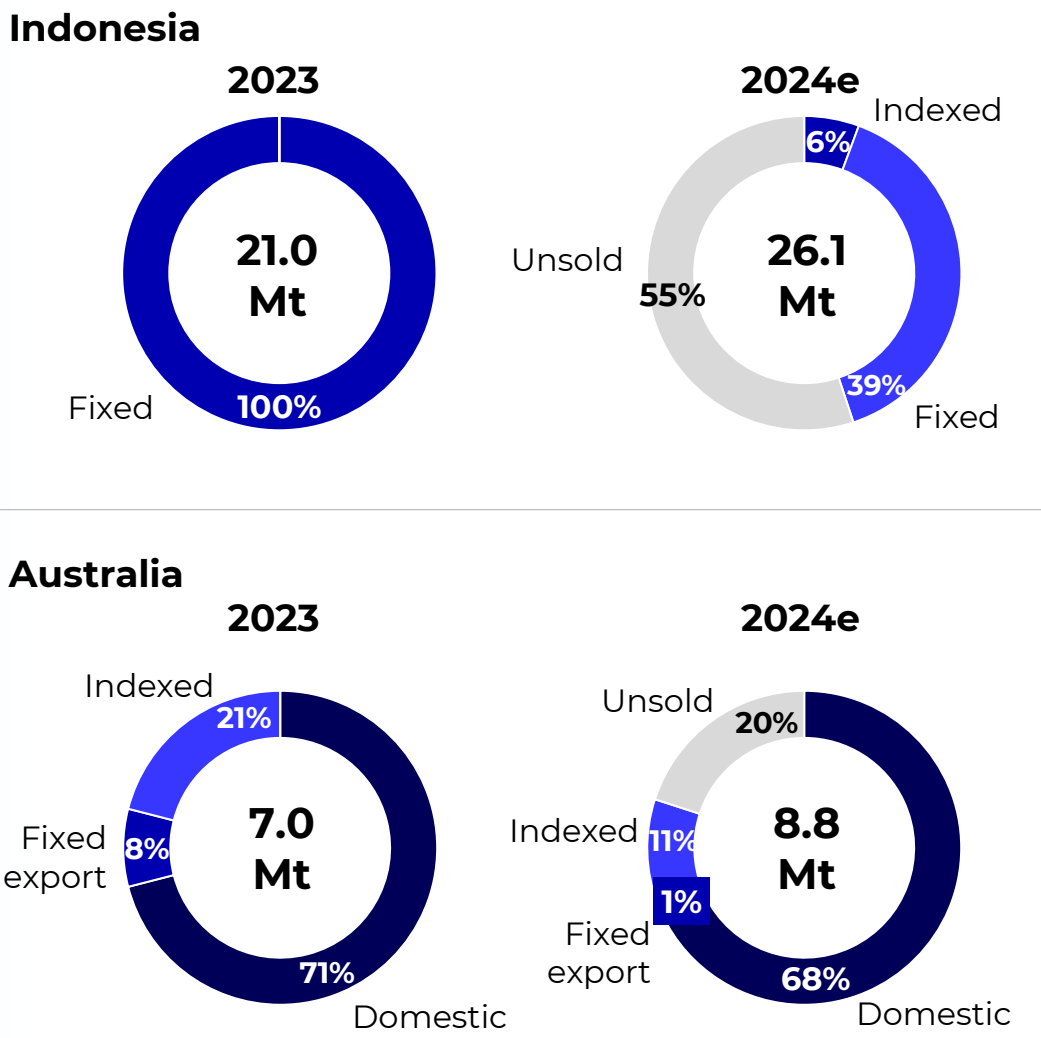
Note: *Includes post shipment price adjustments as well as traded coal. CEY sales volume 4Q23 : 67% domestic & 33% export, 3Q23 : 76% domestic & 24% export; **The Newcastle Export Index (NEX)

Banpu Mining: group coal sales and pricing status 2023

2023 COAL SALES SOURCE* – DESTINATION ANALYSIS



COAL SALES*** PRICING STATUS



Banpu Mining: 2023 highlights



Production volume

34.7 Mt -2% YoY

Sales volume

40.3 Mt -2% YoY

EBITDA

\$914 M -66% YoY

Note: Coal reserves at end 2023 and based on 100% basis. CV figures are air-dried basis

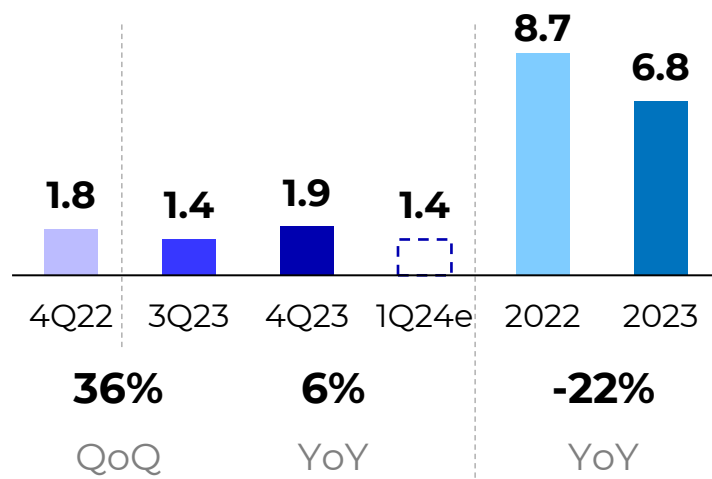
Banpu Mining: operational summary

ROM PRODUCTION AND KEY UPDATES

Unit: Mt

Australia Coal

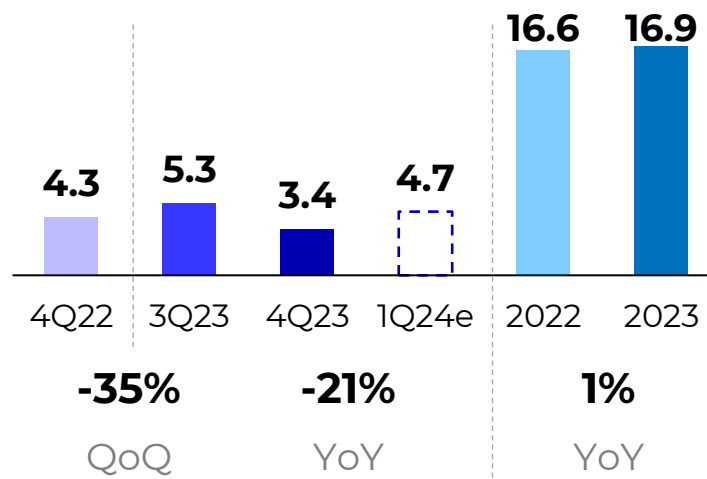
2024 target: 8.0 Mt



- Q4 production achieved the 1.9 Mt target with both Longwall mines operating at full capacity.
- Mandalong's new low-height Longwall continues to deliver enhanced productivity rates.
- Airly increased tonnes through a new roster and higher resourcing.
- 1Q24 production is projected at 1.4 Mt as Springvale is in relocation mode.

Indonesia coal

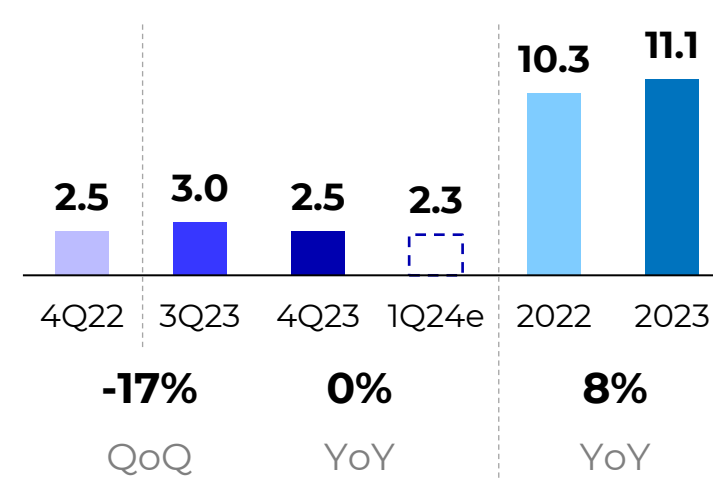
2024 target: 19.5-20.2 Mt



- Production in 4Q23 reached 3.4 Mt, as planned. The total production for 2023 amounted to 16.9 Mt, slightly surpassing that of 2022.
- As a result of mine sequence preparation in 4Q23, production in 1Q24e is targeted at 4.7 Mt, following an increase in production within the Melak cluster.

China Coal

2024 target: 10.8 Mt

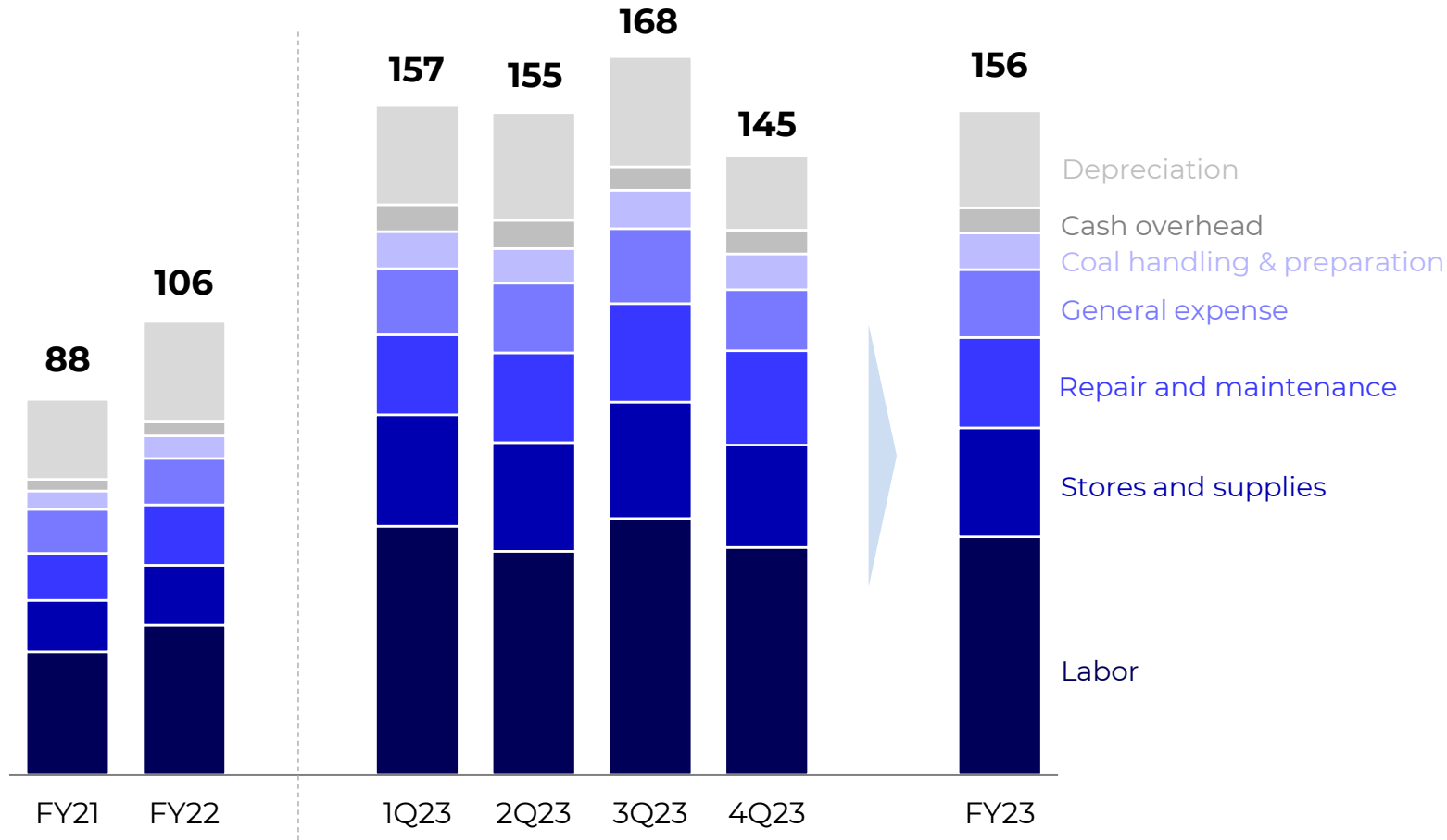


- Gaohe: Continued retreat mining at longwall panels using backfilling and smart technology. The coal price remained stable in 4Q23 due to balanced supply-demand dynamics.
- Hebi: Retreat mining at LTCC3110 occurred from October-November 2, 2023. A test run commenced, and retreat mining of LTCC3205 continued in 4Q23. Operational cost control persisted through improved efficiency in underground roadway development, longwall operations, and pre-degas hole building.

Banpu Mining: average production cost breakdown – Australia

AVERAGE PRODUCTION COST BREAKDOWN, AUSTRALIA

A\$/t



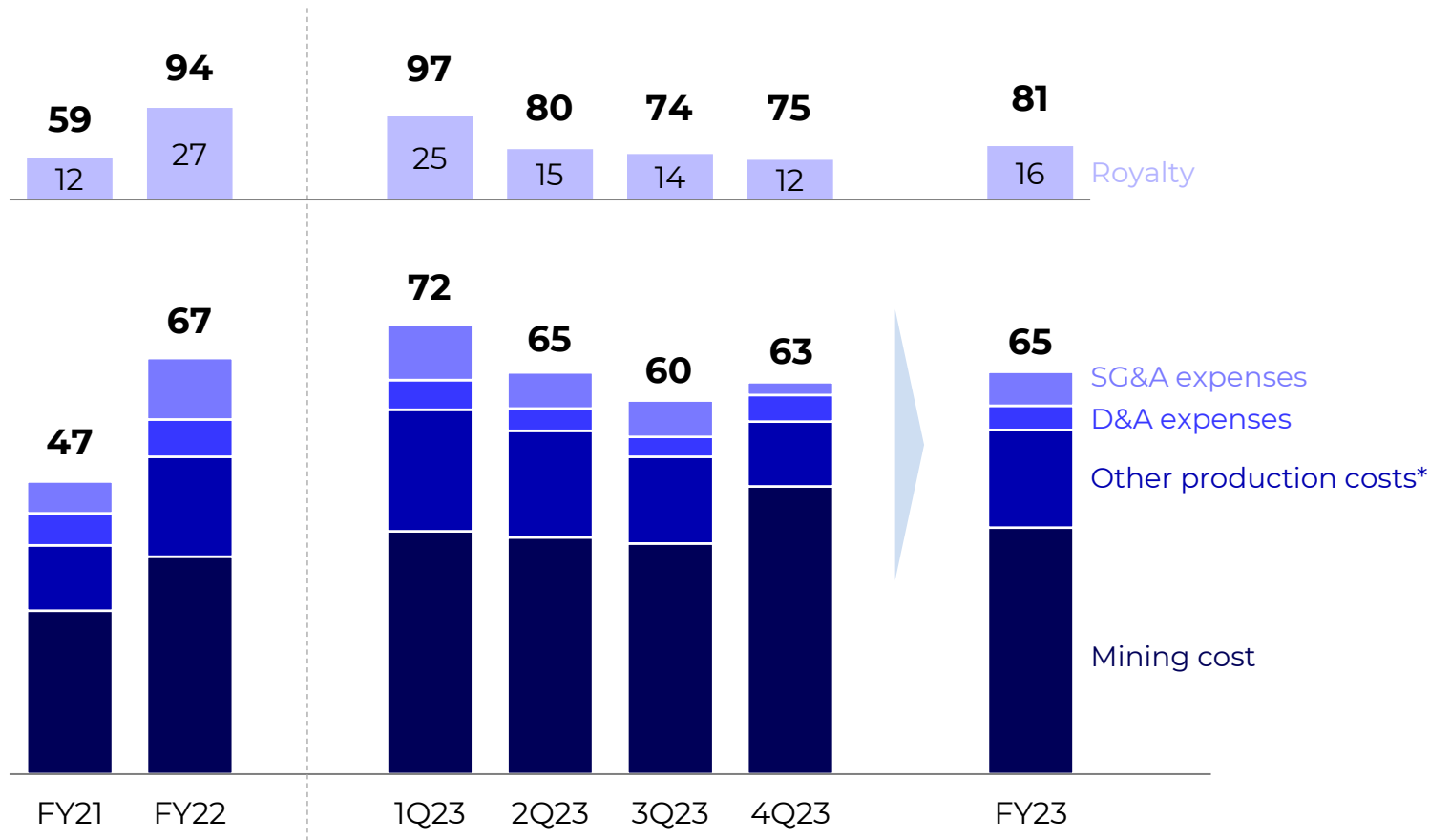
- Production for 4Q23 increased by 35% compared to 3Q23, leading to a reduction of A\$23/t in unit costs.
- Cost-cutting measures remain in place for operating expenses at all sites.
- A balanced approach to capital allocation continues to be a key focus.
- Strategic procurement project is underway to identify cost saving opportunities with major suppliers.

Note: These figures do not include selling, distribution and royalty costs; based on 'sold' production

Banpu Mining: average total cost breakdown – Indonesia

AVERAGE PRODUCTION COST BREAKDOWN, INDONESIA

US\$/t



- Total cost, excluding royalty, increased from \$60/t in 3Q23 to \$63/ton in 4Q23 (5% QoQ) mainly due to lower production which leads to higher cost/unit.
- Average total cost for FY23 excluding royalty, was recorded at \$65/t, lower than the total cost in FY22 at \$67/t (-3%YoY).
- 4Q23 royalty decreased from \$14/t in the previous quarter to \$12/t (-13% QoQ), which is aligned with the decreasing of coal benchmark prices.

Note: *Including repair and maintenance, salaries and allowances, inventory adjustment, others etc.

05

Energy Generation

Banpu Energy Generation: 4,878 MW committed capacity

8 countries

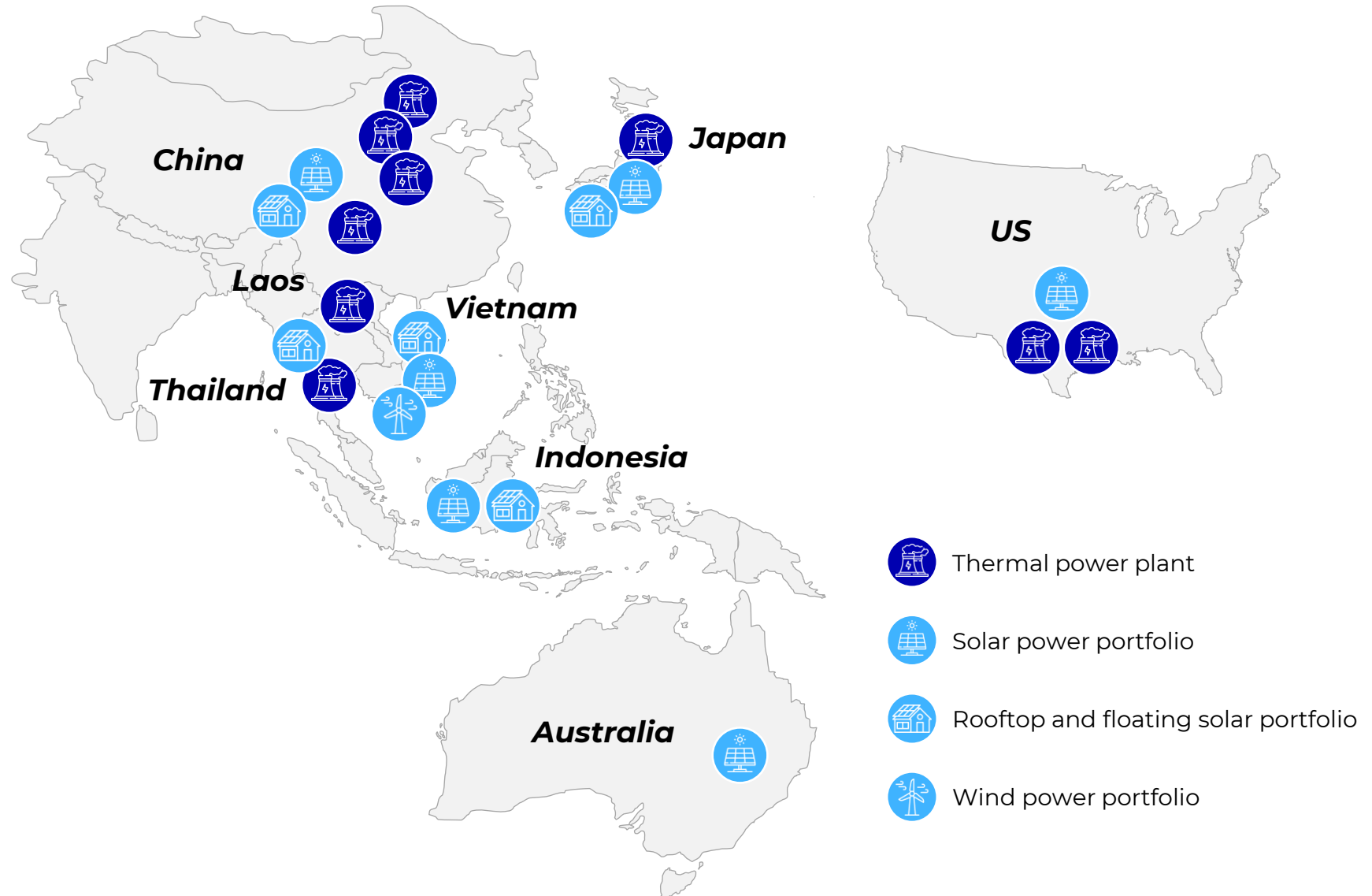
operations across
the Pacific Rim

4,008 MW

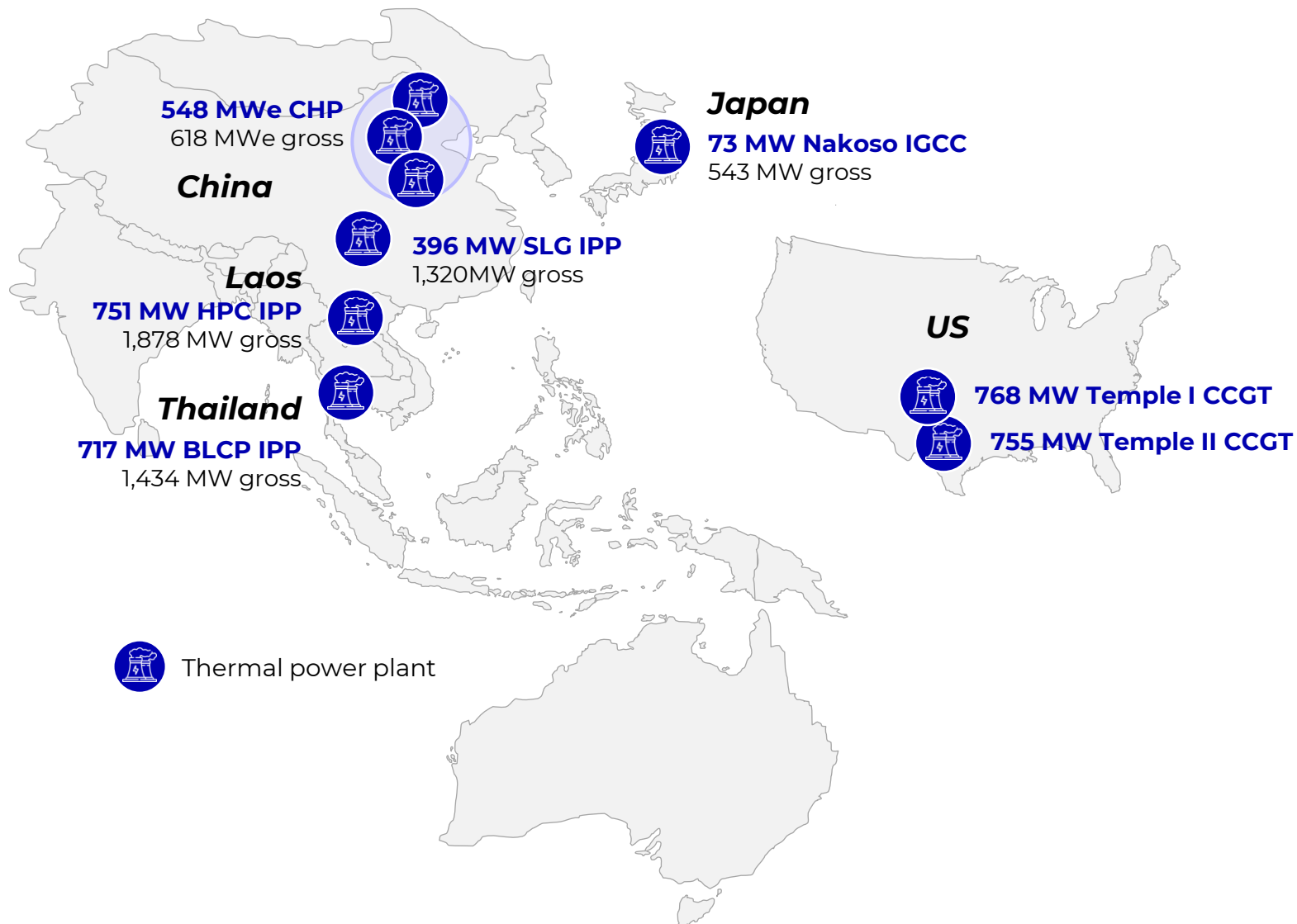
committed thermal
equity capacity

870 MW

committed renewables
equity capacity



Banpu Thermal Power: 2023 highlights



EBITDA

\$482 M +108% YoY

Achieved EAF

84.9% at HPC

87.9% at BLCP

83% at Temple I & II

n.a. at Nakoso

Note: MWe is MW equivalent

Thermal Power: 2023 updates



HPC

Completed CAH with smooth and efficient operations; high EAF performance in 2023.

84.9%	EAF* -1% YoY
THB 21.5 bn	Revenue -2% YoY
THB 12.0 bn	EBITDA -4% YoY
THB 3.0 bn	Share of profit -18% YoY



BLCP

Completed CAH and benefit from operate outside CAH, with excellent operational management, avoiding unplanned outages.

87.9%	EAF +1% YoY
THB 17.9 bn	Revenue +5% YoY
THB 3.6 bn	EBITDA +17% YoY
THB 1.1 bn	Share of profit +82% YoY



SLG

Improved performance was driven by an increase in power sold due to higher demand and lower coal prices. Furthermore, the replacement of the USD loan with a domestic loan in Sept. 2023, resulted in reduced interest expenses.

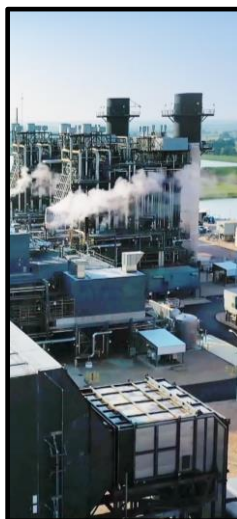
5,317 GWh	Net power sold +20% YoY
RMB 21 M	Share of profit +RMB 93 M YoY



China CHP

Profit improvement resulted from effective cost control, which led to lower coal costs and, consequently, higher margins.

RMB 1.3 bn	Revenue -3% YoY
RMB 159 M	EBITDA +RMB 158 M YoY
RMB 45 M	Share of profit +RMB 110 M YoY



Temple I & II

The Temple II acquisition, supported by a higher spark spread, resulted in successful operational results.

83%	EAF +0% YoY
5,415 GWh	Net generation
USD 637 M	Revenue +27% YoY
USD 73 M	Share of profit** +236% YoY



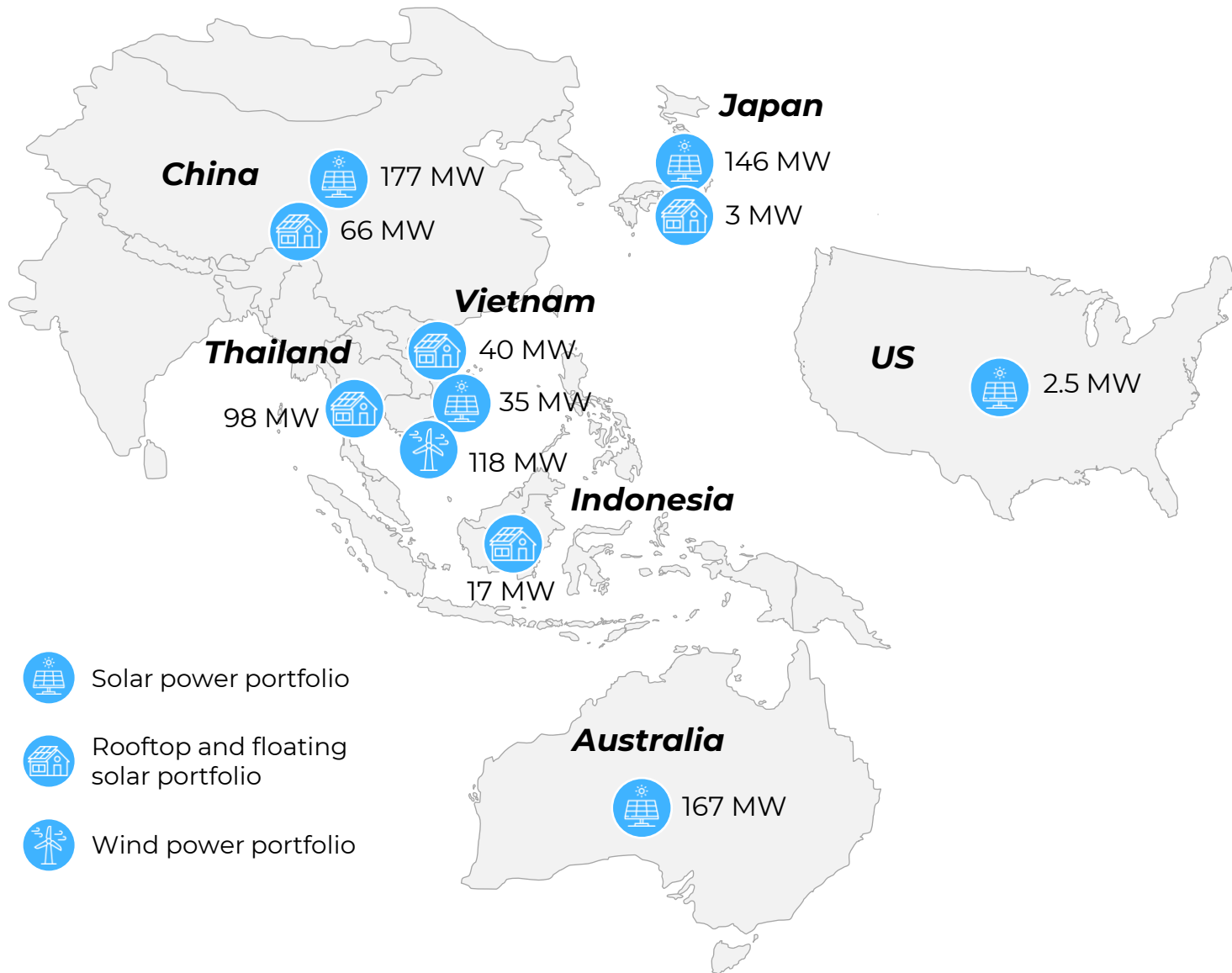
Nakoso IGCC

In 2023, the plant plans a temporary closure for equipment adjustments during its early operations to ensure long-term reliability and sustainability. All maintenance works are on schedule.

n.a.	EAF
n.a.	Net generation
(THB 150 M)	Share of loss

Note: *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;
Includes USD 145 M loss on derivatives; * Recognized Temple II since July 2023

Banpu Renewable Power: diversified Asia-Pacific portfolio



870 MW

committed renewables capacity across Asia-Pacific

Committed capacity

527 MW solar power

225 MW rooftop and floating solar

118 MW wind power

Renewable Power: 2023 updates



China Solar

High power sold led by better irradiation.

15%	Avg. capacity factor +1% YoY
230 GWh	Power sold +1% YoY
RMB 147 M	EBITDA -3% YoY
RMB 49 M	Profit contribution -4% YoY



Japan Solar

Good irradiation has contributed to a favorable capacity factor and increase in power sold YoY.

13%	Avg. capacity factor +1% YoY
222 GWh	Power sold +5% YoY
JPY 1.8 bn	Cash distribution +47% YoY



Vietnam Wind

El Wind Mui Dinh

30%	Avg. capacity factor +7% YoY
98 GWh	Power sold +27% YoY
(USD 0.8 M)	Share of loss +1 M YoY



Australia Solar

Favorable weather conditions leading to an increase in both capacity factor and power sold.

21%	Avg. capacity factor +3% YoY
223 GWh	Power sold +15% YoY
(AUD 20.7 M)	Share of loss* +50% YoY



Vietnam Solar

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

17%	Avg. capacity factor +1% YoY
51 GWh	Power sold +76% YoY
USD 0.7 M	Share of profit +0.5 M YoY

Vietnam Wind

Vin Chau project

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

Note: Banpu has 100% shareholding in Banpu NEXT

*Includes AUD 17.2 M of loss on derivatives



Energy Technology

Energy technology: current position and future targets



Energy technology: 4Q23 rooftop and floating solar updates



Solar: rooftop & floating

ACCELERATING DEVELOPMENTS ACROSS BANPU GEOGRAPHIES

THAILAND

98 MW

Total committed capacity

New contract signing with Betagen carport and rooftop and Karoon Farm Co., Ltd. for a total capacity of 2 MW in 4Q23.

CHINA

66 MW

Total committed capacity

Committed capacity of solar rooftop project at Zhengding CHP has the potential to increase to 167 MW by 2023. The current operating capacity is 12.9 MW.

VIETNAM

40 MW

Total committed capacity

Committed capacity of solar rooftop project for Solar ESCO, with a current operating capacity of 13.3 MW.

INDONESIA

25 MW*

Total committed capacity

IBP has signed additional solar rooftop PPA of 9 MWp in 4Q23. Currently, the total installed capacity is approximately 7 MW.

Energy technology: 4Q23 battery and ESS solutions updates



Battery & ESS solutions

COMMENCEMENT OF COMMERCIAL OPERATIONS OF BANPU NEXT AND SVOLT ENERGY (THAILAND)'S BATTERY PACK FACTORY



28th Feb. 2024

Factory COD

2.0 GWh

Committed production capacity

60,000 units

Annual production output

FACTORY PROGRESS

- Main factory renovation and energy facility have been completed, with pending office renovation.
- Trial production for BA14, BA17, BM13, BV48 C samples has completed, with a scheduled trial production of 240 packs for BM13 and BA14 in February, aligning with customer demand.

BANPU NEXT AND SVOLT ENERGY (THAILAND) SIGN A NEW STRATEGIC COOPERATION FOR THE DEVELOPMENT OF ENERGY STORAGE AND RELATED BATTERY BUSINESSES

The upgraded strategic partnership will extend across the battery value chain, from upstream cell production to downstream segments such as energy storage systems, while promoting circular economy through the exploration of battery recycling.

'Become a leading lithium-ion battery player in Thailand and Southeast Asia'



Battery cells



Energy storage systems



Battery recycling

Energy technology: 4Q23 battery and ESS solutions updates (cont'd)



Battery & ESS solutions



DP NEXT PRODUCTION PLANT



IWATE TONO PROJECT

DURAPOWER PHASE 2 EXPANSION OF 2 GWh

durapower

Two manufacturing lines are scheduled to commission by Dec'24, with the third to follow in 2025 to meet customer requirements.

\$102 M

Total investment

20 major projects

across the Asia Pacific and Europe

STRATEGIC FOCUS SEGMENTS:



Mobility



Marine



Specialty



Stationary

DP NEXT PRODUCTION PLANT (AMATA CITY, CHONBURI)



1.0 GWh

Production capacity

c.\$40 M (THB 1.4 bn)

Total investment

3Q24

Expected COD

70%

Banpu NEXT shareholding

60% completed

Steel construction progress, with remaining work for wall mounting, installations and decoration

3 customers

For battery supply and subsequent purchase orders

IWATE TONO PROJECT



c.\$17 M (JPY 2.6 bn)

Total investment

2Q25

Expected COD

75%

BJP shareholding

87%

Construction progress (Jan. 31st)

PROJECT UPDATES

Phase 2 of the construction of extra-high voltage electric equipment and the substation was halted during the snow season (Dec'23-Feb'24)

Energy technology: 4Q23 e-mobility updates



E-mobility

CONTINUOUS DEVELOPMENTS IN EVOLT TECHNOLOGY WITH NEW PROJECTS AND CHARGING NETWORK EXPANSION



23.81%

Current shareholding position

711 units

Installed public chargers

RECENT PROJECTS



Awarded for GAC AION home chargers



Awarded from MQDC for Mulberry Groove Condo



Awarded for Honda home chargers



Won the bid for Tesla Supercharger installation of 14 units at Central Pattaya



Awarded from Shell to install DC Charger station

BEYOND GREEN RECENT DEPLOYMENTS



39.2%

Current shareholding position
(Increased from 30.0% in 2Q23)

22 branches

Growth from 6 branches at the end of 2021

NEW TEMPO 2 MODEL DELIVERIES

- 30 carts delivered to the Burapaha Golf Course in Chonburi, with plans to ship another 120 units in Nov.
- 2 carts delivered to the Buddhachinnarat Hospital in Phitsanulok, with additional trailer seats
- 40 carts delivered to the Athitaya Golf Course in Kanchanaburi, along with 2 New Villager 8-seat carts

OTHER DELIVERIES

- One cart of the New Tempo 4-seat model to Pro Bike Company Limited in Nakhon Ratchasima
- One cart of the New Villager 6-seat model to San Sai Luang Municipal Offices in Chiang Mai

Energy technology: 4Q23 e-mobility updates (cont'd)



E-mobility

ACCELERATING RIDESHARING NETWORK EXPANSION

muvmi

9 million+

Total number of passengers

600 e-tuktuks

In operation

154 chargers

Deployed in Bangkok

12 servicing locations

Across Bangkok

Over 45,000 pick ups

MuvThing deliveries, ranging from daily necessities to personal luggage

CONTINUOUS DEVELOPMENT IN HAUP CAR WITH NEW PROJECTS

HAUP

300k users

Total registered users

1,500+ Vehicles

In operation (ICE & EV)

600+ sharing locations

Across Bangkok

RECENT PROJECTS

- Expanded exclusive services including airport fast track & limousine to capture tourism market
- Collaboration with Bua Travel & Car Rental to provide car-sharing services in 4 key airports (Suvarnabhumi, Don Mueang, Phuket, Chiangmai)
- Partnership with Trip.com to attract higher customer base from increasing number of Chinese tourists

Energy technology: 4Q23 EMS and energy trading updates



Energy management



ENERGY EFFICIENCY IMPROVEMENT THROUGH BANPU NEXT ECOSERVE

BANPUNEXT
EcoServe

BanpuNEXT EcoServe, a wholly-owned subsidiary of BanpuNEXT, specializes in Energy Efficiency Improvement solutions under the ESCO model, offering comprehensive investment and O&M packages with guaranteed energy efficiency for commercial and industrial clients.

25 Contracts

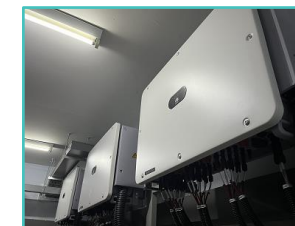
Including BOOT*, Solar PPA, and IFM** contracts

2,800 kW

Air compressor management

21,500 RT***

Chilled water management



Energy trading



IMPLEMENTED AN ADVANCED MARKETING AND SALES STRATEGY, INTEGRATING MARKET-DRIVEN PRICING STRUCTURES AND SECURING SUPPLY AGREEMENTS THROUGH A COMPETITIVE TENDERING PROCESS

760 GWh

2023 annual sales

- 61% of total sales are market-linked price products
- Remaining sales are fixed-price contracts obtained through tendering (hedged to minimize potential risks)

658 clients

From public and private sectors in 8 utility grid areas.

(increasing from 470 clients in 3Q23)

BPPTGK has also increased its involvement in short-term and transmission rights trading to mitigate the risk of sales imbalances between utility grid areas.

The background is a dark blue, futuristic financial dashboard. It features several glowing line charts and candlestick patterns in shades of blue, purple, and yellow. In the center, there is a glowing, three-dimensional cube with some illegible text on its faces. The overall aesthetic is high-tech and data-driven.

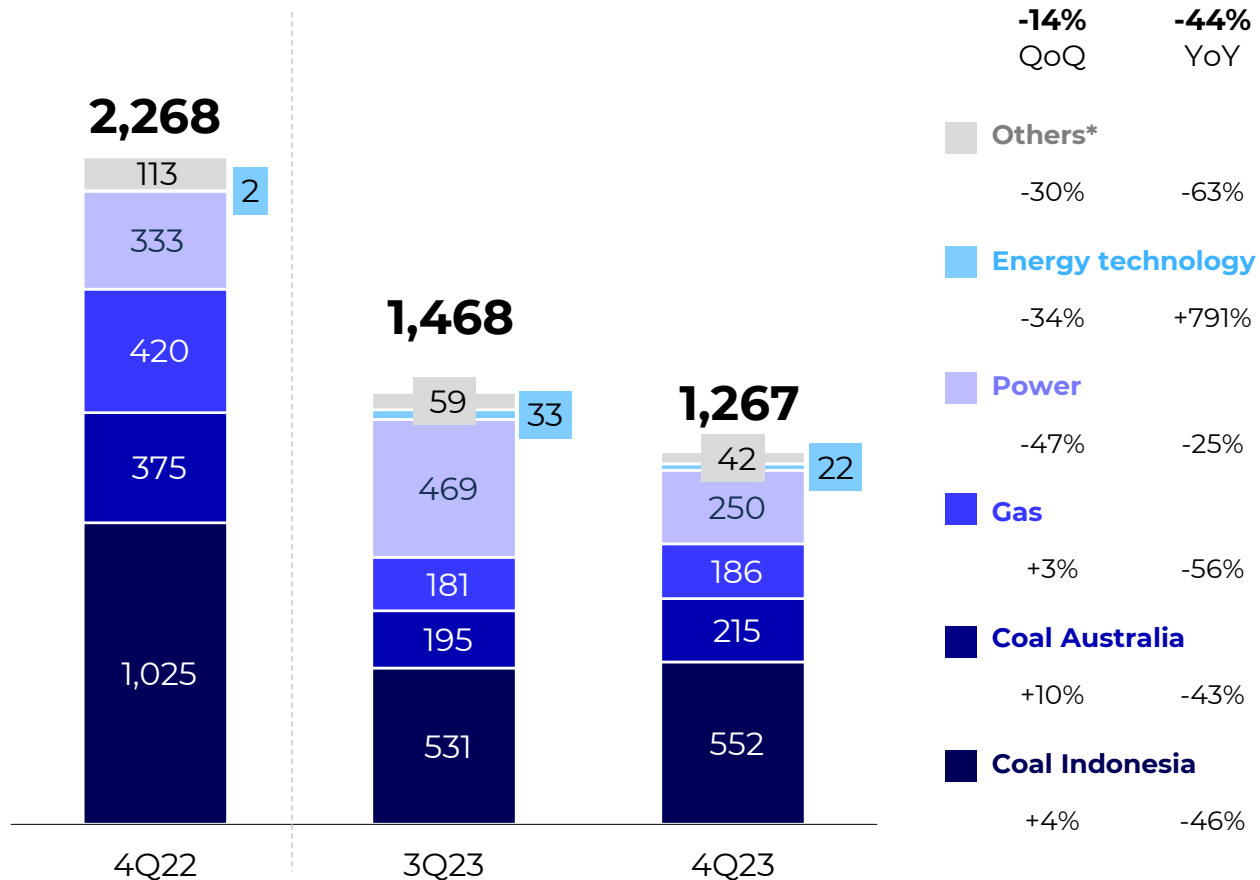
07

Financial Summary

Banpu consolidated sales revenues – 4Q23 and FY23

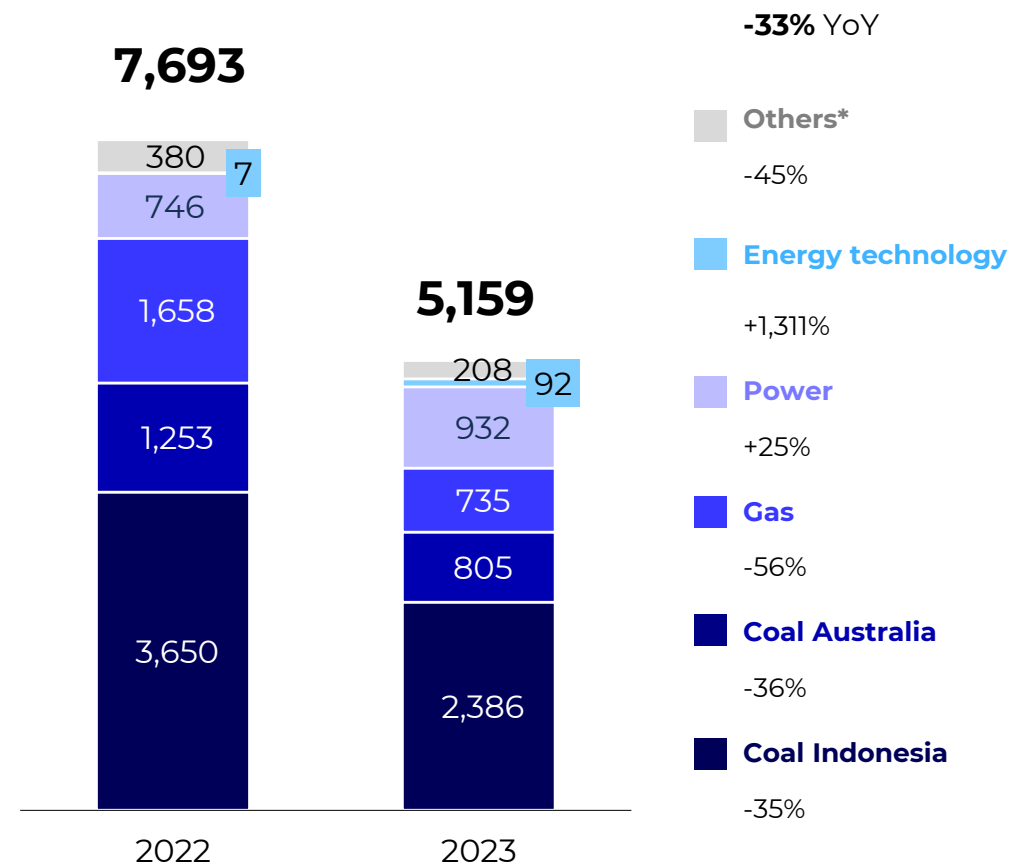
Consolidated sales revenue, by quarter

USD million



Consolidated sales revenue, by year

USD million

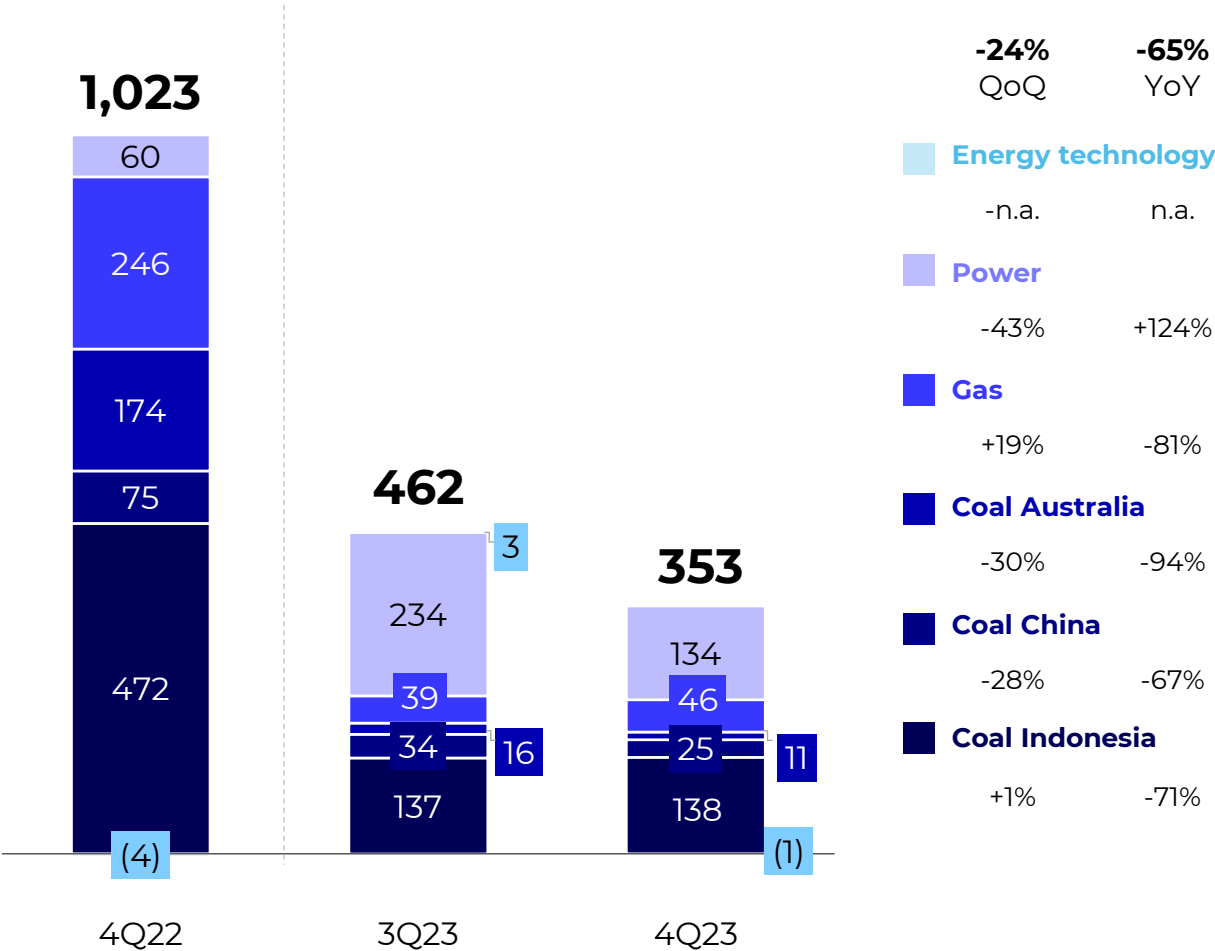


Note: *Revenue from others includes coal trading, and other businesses

Banpu consolidated EBITDA– 4Q23 and FY23

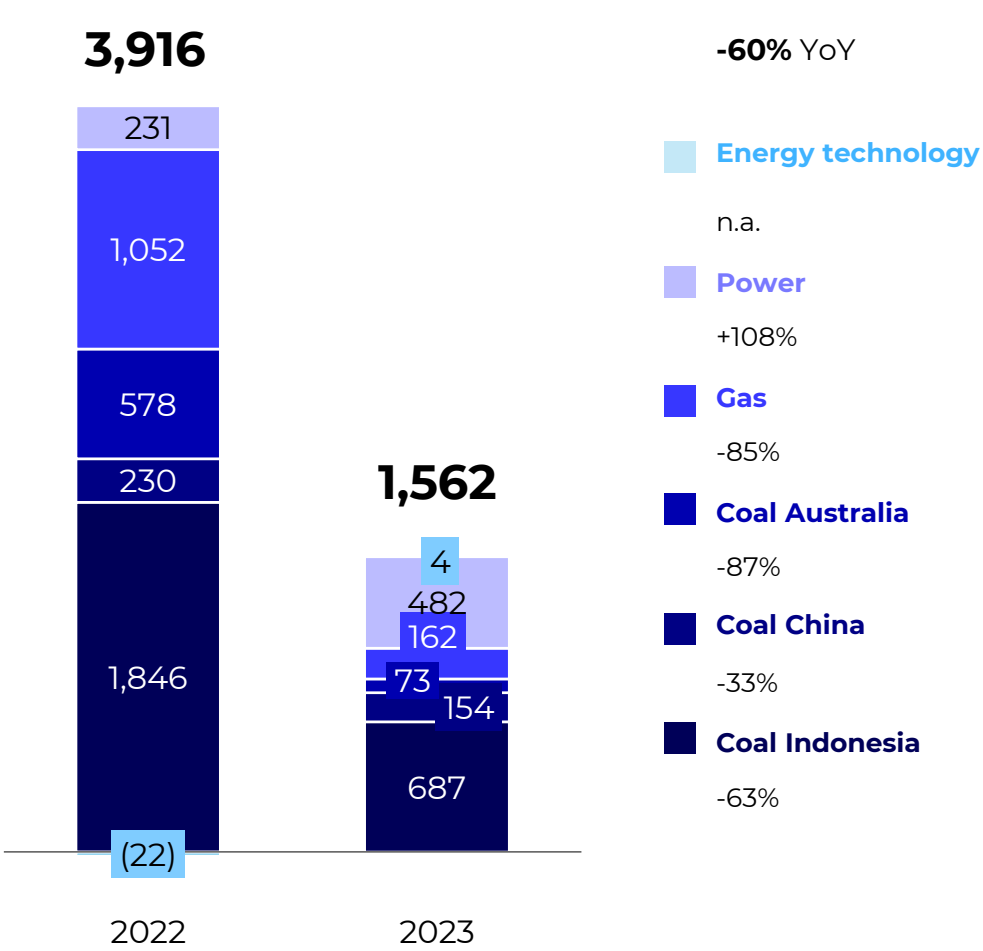
Consolidated EBITDA, by quarter

USD million



Consolidated EBITDA, by year

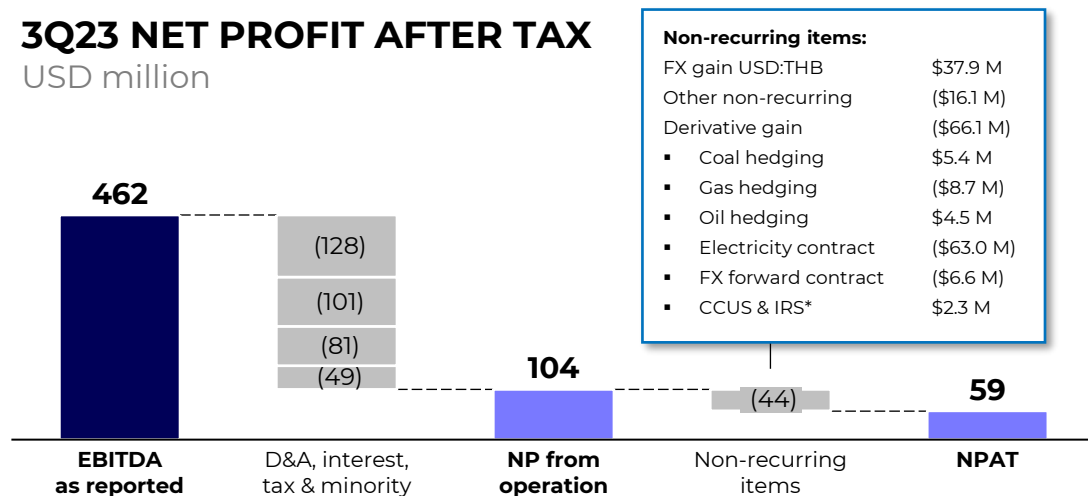
USD million



Banpu consolidated NPAT – 4Q23 and FY23

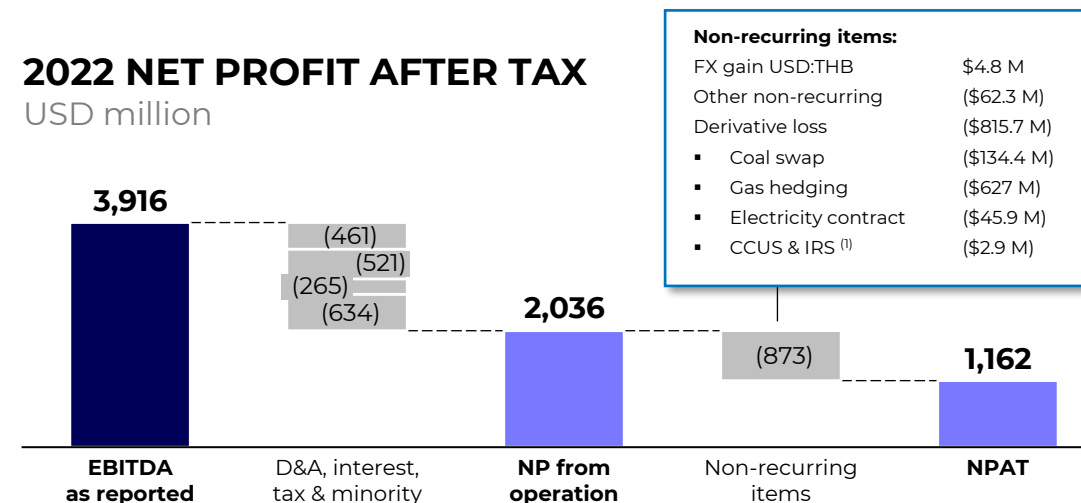
3Q23 NET PROFIT AFTER TAX

USD million



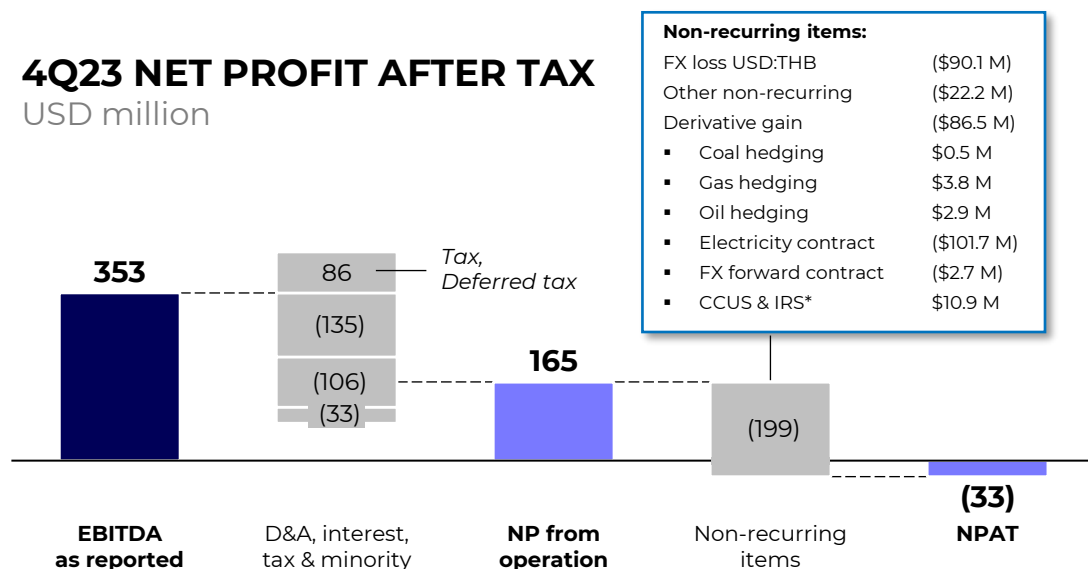
2022 NET PROFIT AFTER TAX

USD million



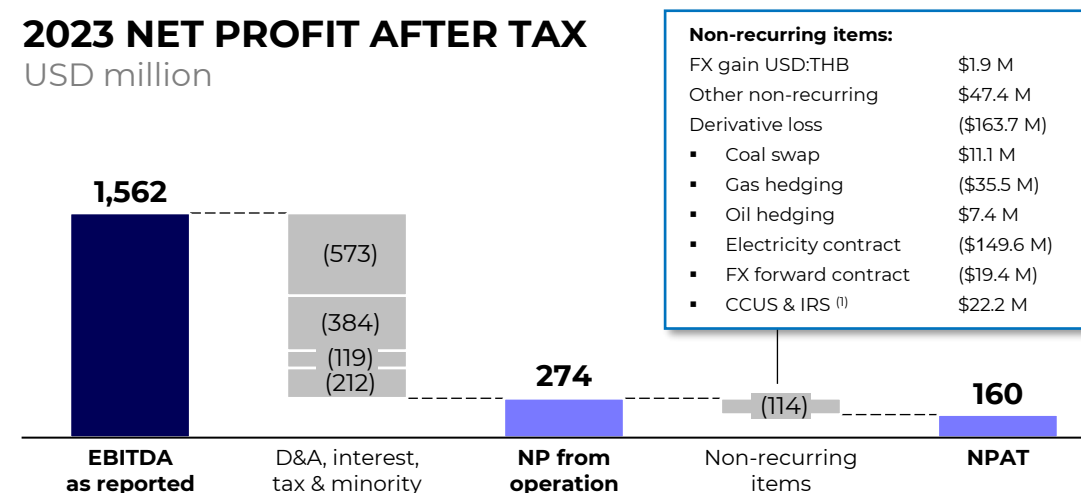
4Q23 NET PROFIT AFTER TAX

USD million



2023 NET PROFIT AFTER TAX

USD million



Appendix

Banpu: ESG leadership and credit rating recognition

BANPU ESG RATINGS



A

rating for three consecutive years for demonstrating resiliency towards long-term ESG risks and excellent risk management and mitigation relative to peers.

Member of
**Dow Jones
Sustainability Indices**
Powered by the S&P Global CSA

Awarded since 2014

Recognized as a constituent of DJSI for conducting business with the highest ESG standards.



Awarded since 2015

Recognized in THSI for sustainable operations and responsible investment principles.



Honor since 2018

Highest distinction in SET's Sustainability Excellence Award for at least 4 consecutive years.



AAA

rating awarded by the SET ESG Ratings 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.



Sustainability Disclosure Award 2022

from Thaipat Institute for consistent and excellent conduct of ESG principles.



ASEAN Asset Class

Awarded in 2021 ASEAN Corporate Governance Scorecard for excellent corporate governance.

CREDIT RATINGS



Best Public Company of the Year 2023 in the SET & Best Company of the Year 2023 in the Resources Industry

Awarded by Money & Banking Magazine for Banpu's exceptional ability to effectively manage business and organization.



A+ Credit rating

with a **'stable'** outlook on the company and senior unsecured debentures reflecting the company's stable business growth.

Banpu: ESG recognition across the subsidiaries



Responsibly Sourced Gas (RSG) Gold Rating Certification

BKV's NEPA wells and facilities were awarded with TrustWell Gold accreditation for operational excellence, safety, and environmental stewardship, allowing BKV to market and sell certified RSG to the market.

Gold accreditation is awarded to top 25% most responsible gas operators by Project Canary, a leading and widely regarded 3rd party certification company.

The certification was awarded to 100% of BKV's NEPA production and a portion of BKV's Barnet production in 2022.



Best Non-Financial Sector Award

Awarded at the 14th IICD Award in 2023 for the continued commitment and performance towards corporate governance.



Platinum Plus & Green Elite Awards

Awarded at the 2023 Corporate Emission Transparency Awards for transparency and consistency in emission reporting.



Golden Trophy

Awarded at the TOP CSR Awards 2023 after maintaining the 5-Star Trophy for three consecutive years, along with a TOP Leader on CSR Commitment awarded to Mr. Mulianto, President Director at ITM.



ESG EXCELLENCE

Established ESG Committee in March 2023 to supervise ESG targets and performance



5th Year
Listed on THSI



Commended Sustainability Award
Awarded by SET in 2023



AAA rating
Awarded by SET ESG Ratings



5 Stars & 5 Coins
Awarded by IOD and TIA



ASEAN Asset Class
from 2021 ASEAN Corporate Governance Scorecard

Banpu ESG: environmental stewardship and commitment to the SDGs

SUSTAINABLE DEVELOPMENT GOALS

2030

BANPU COMMITMENT

In accordance with the UN Sustainable Development Goals (SDGs), Banpu has integrated 7 goals with commitment to long-term targets.



Banpu: 'integrated energy solutions' 2023

ENERGY RESOURCES

Shale Gas



892 MMcfed*
Net production

ENERGY GENERATION

Renewable Power



645 MW
Committed capacity

ENERGY TECHNOLOGY

Rooftop & Floating Solar



225 MW
Committed capacity

Mining



34.5 Mt
Coal sales

Thermal Power



4,008 MW
Committed capacity

Clean Energy Tech



1.0 GWh (100% basis)
Li-ion batteries



E-mobility services
E-mobility solutions



Smart Cities &
Energy Management



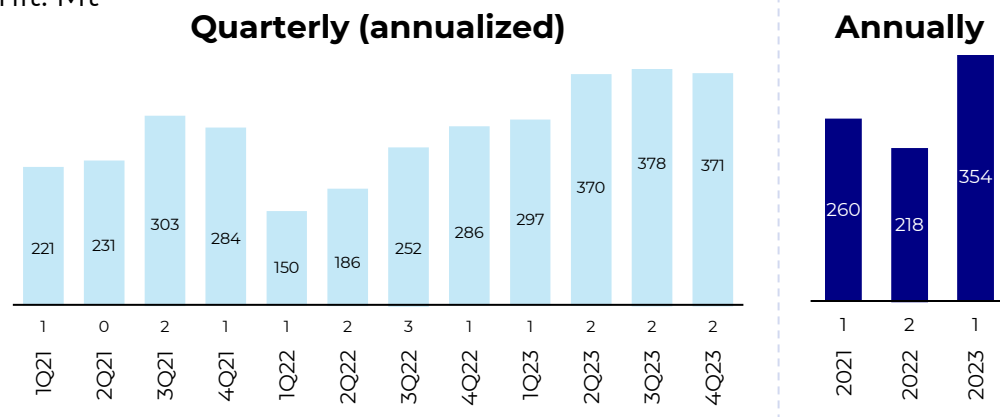
760 GWh
Electricity trading

Note: *Average for nine months ended 31st December 2023

China: domestic supply tightness boosting imports

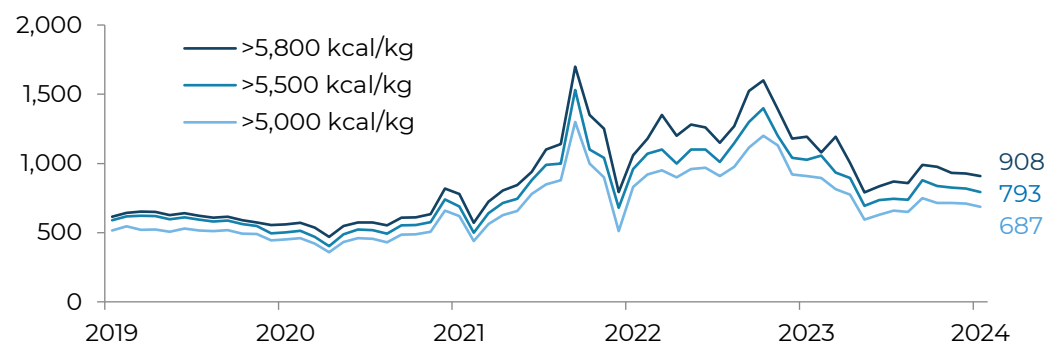
CHINA THERMAL COAL IMPORTS/EXPORTS*

Unit: Mt



CHINA DOMESTIC COAL PRICES

Unit: RMB/t



Note: *Includes lignite but excludes anthracite imports/exports

Source: www.sxcoal.com/cn (4th February 2024), Banpu MS&L

4Q23

- China's GDP grew by 5.3% in 4Q23, surpassing a 4.9% growth in 3Q23.
- For 2023, GDP growth accelerated to 5.2% from 3.0% in 2022, meeting the government's 5% target. The property sector hampered growth, while infrastructure offered limited support due to local government debt burdens.
- In 2023, China's power consumption reached 9,224 TWh, increasing 6.7% from 2022. Thermal power production rose to 6,231 TWh, accounting for approximately 70% of total generation.
- However, hydropower output decreased by 5.6% to 1,141 TWh, due to drought conditions, compared to a 1.0% rise in 2022.
- Despite stricter safety inspections after accidents disrupted production, China produced a record 4.66 bnt of coal in 2023, increasing from 2.9% in 2022.
- In 4Q23, China imported 93 Mt of thermal coal, increasing by 30% YoY and bringing the total annual imports to 354 Mt, reflecting a 38% YoY growth. The competitive pricing of imported coal led to negative margins for traders, reducing domestic supply to coastal regions.

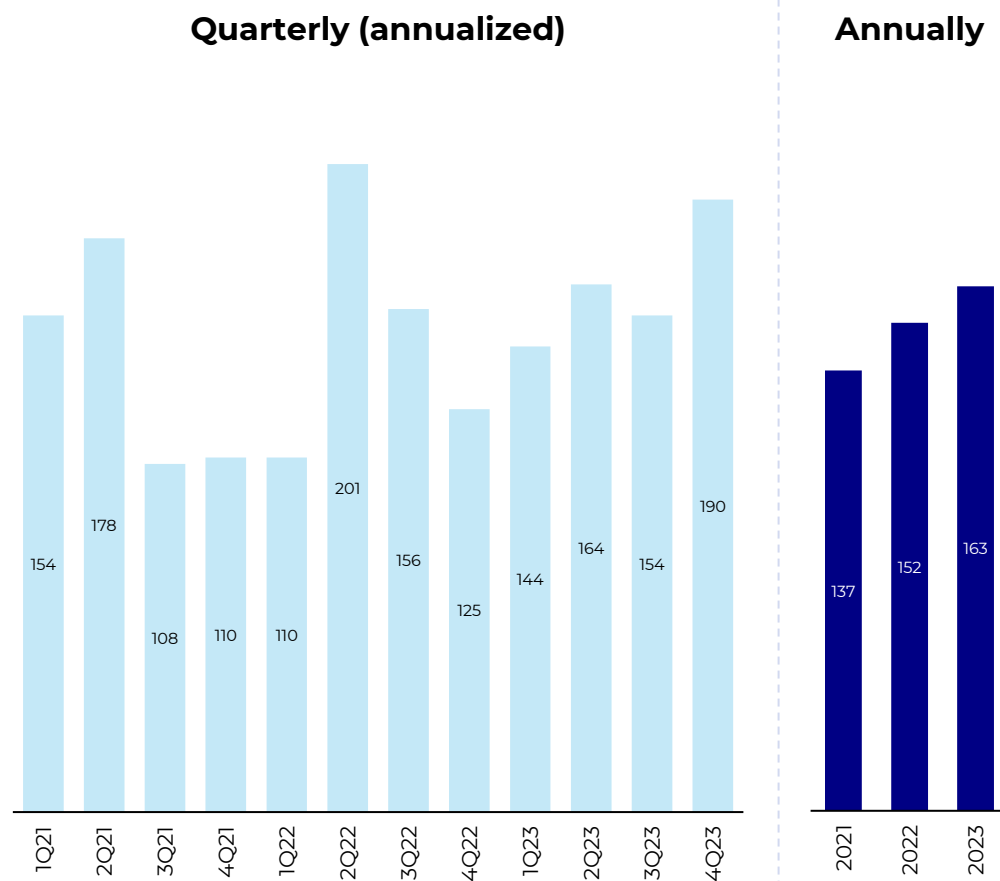
OUTLOOK

- In 2024, China is expected to achieve a 4.6% GDP growth, despite challenges in the real estate sector. Government initiatives like social housing and urban renewal projects aim to provide some support.
- The forecast for power demand growth in 2024 is 5.4%, with effective stimulus measures expected to boost demand.
- Uncertainty in domestic coal production growth may drive import buying due to ongoing mine safety controls.
- While the central government urges major coal producers to increase production to meet demand and stabilize prices, the growth pace may be more moderate.
- To adapt to this, China has reduced the volume of term contract supply for 2024, allowing utilities to purchase more on the spot market, including coal import.

India: strong domestic coal production curbed import demand

INDIA THERMAL COAL IMPORTS*

Unit: Mt



Note: *Includes lignite grade imports

Source: Commodity Insights, Banpu MS&L

4Q23

- In 4Q23, India experienced a surge in electricity demand, driven by a hotter October and increased festive demand.
- The total electricity generation for 4Q23 reached 364 TWh, marking a 10% YoY increase, but a 7% decrease from 3Q23 due to milder weather. The overall annual electricity generation was 1,486 TWh, reflecting a 6% YoY growth.
- Imported coal-fired generation contributed 311 TWh, rising 85% YoY due to low hydro and renewable output. This brought the total annual imported coal-fired generation to 1,230 TWh, with a 9% YoY increase.
- Domestic thermal coal production in 4Q23 was 244 Mt, representing 17% YoY growth post-monsoon. The cumulative output for 2023 reached 910 Mt, with a 14% increase from 2022.
- Thermal coal imports in 4Q23 reached 47.5 Mt, showing a significant 51% YoY increase and a 23% increase from 3Q23. The total annual thermal coal import for the year amounted to 163 Mt, increasing 8% from the previous year.

OUTLOOK

- Indian power demand is set to remain strong amid economic growth, supported by the forecasted El Niño phenomenon in 2024, leading to weak hydro conditions and bolstering coal-fired generation.
- To prevent shortages, the government allows domestic coal-based generators to blend 6% of imported coal until March 2024.
- Import-dependent coal-fired plants are directed to operate at full capacity until June 2024.
- Domestic coal production is expected to project a strong growth, but still fall short of meeting demand.
- The Minister of Power and New and Renewable Energy announced plans to build 80 GW of coal-fired capacity by 2031-32, up from the previous 50-55 GW, emphasizing the continued importance of thermal power until cost-effective energy storage is available for continuous renewable energy supply.

Coal quarterly output summary

AUSTRALIA OPERATIONS: COAL OUTPUT (MT) – ROM OUTPUT ON EQUITY BASIS					
Mines	CV (kcal/kg)	2Q23	3Q23	4Q23	1Q24e
Western operations		1.2	0.9	1.1	0.7
Springvale	6,700	0.7	0.5	0.6	0.2
Clarence	6,700	0.2	0.3	0.3	0.3
Airly	6,700	0.3	0.1	0.2	0.2
Northern operations		0.5	0.5	0.8	0.7
Mandalong	6,700	0.3	0.2	0.6	0.5
Myuna	6,700	0.2	0.3	0.2	0.2
Total Australia Coal		1.7	1.4	1.9	1.4

INDONESIA OPERATIONS: COAL OUTPUT (MT) – ROM OUTPUT ON 100% BASIS									
Mines	CV (kcal/kg)	2Q23		3Q23		4Q23		1Q24e	
		Output (Mt)	Strip ratios (bcm/t)	Output (Mt)	Strip ratios (bcm/t)	Output (Mt)	Strip ratios (bcm/t)	Output (Mt)	Strip ratios (bcm/t)
Indominco	5,950 – 6,250	1.7	14.1	1.7	13.9	1.5	14.3	1.4	14.7
Trubaindo	6,550 – 6,700	0.7	16.1	1.0	13.1	0.4	23.1	0.7	12.5
Bharinto		1.8	9.6	2.3	9.7	1.3	13.4	2.3	6.6
Jorong	5,300	0.1	11.0	0.2	10.4	0.1	11.0	0.1	6.7
Graha Panca Karsa	3,700	--	--	--	--	--	--	0.05	4.3
Total Indonesia Coal		4.4	12.5	5.3	11.7	3.4	15.0	4.7	10.1

CHINA OPERATIONS: COAL OUTPUT (MT) – ROM OUTPUT ON 100% BASIS					
Mines	CV (kcal/kg)	2Q23	3Q23	4Q23	1Q24e
Gaohe	6,500 – 8,000	2.7	2.6	2.3	2.1
Hebi	5,300 – 6,800	0.2	0.4	0.2	0.2
Total China Coal		2.9	3.0	2.5	2.5

Note: CV figures are air-dried basis

FX impact analysis guidance on P&L

CURRENCY EXPOSURE	NPAT IMPACT 4Q23 (US\$M)	APPROXIMATE FX EXPOSURE (US\$M)		NPAT 5% SENSITIVITY 1Q24 (US\$M)
		Net liability	Net asset	Assuming 5% depreciation of local currencies against USD
Banpu: AUD asset, THB bond, and others	-87.3	-1,800		THB 88
			400	AUD -20
ITMG: IDR asset and liabilities	2.4		240	IDR -12
BPA: USD asset	-5.2		20	AUD 1
Net	-90.1			Net 57

▪ BOT lower 2024 growth at 3.2% (no digital wallet) -3.8% (incl. digital wallet)

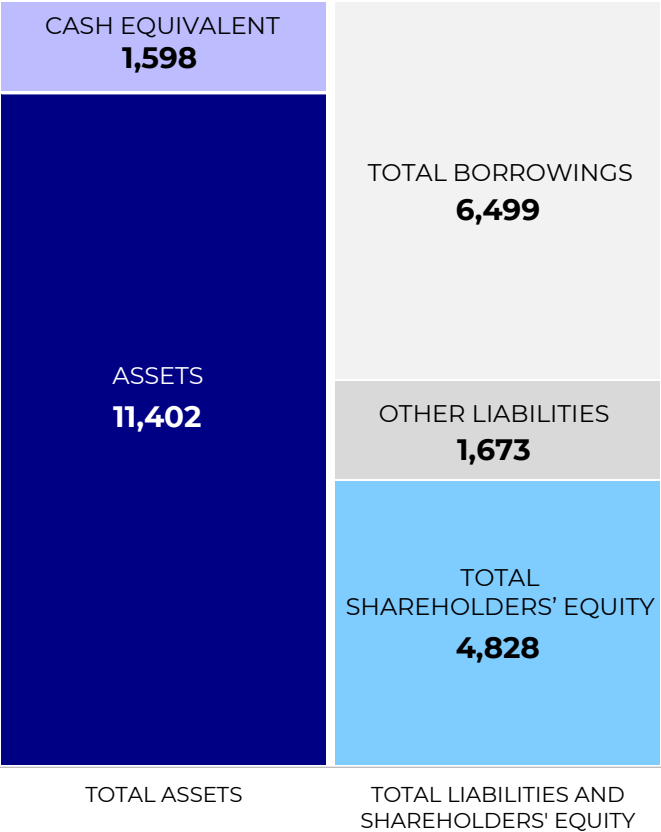
▪ BI forecast 2024 GDP to 4.7-5.5%

▪ RBA raised 2024 growth at 1.55%

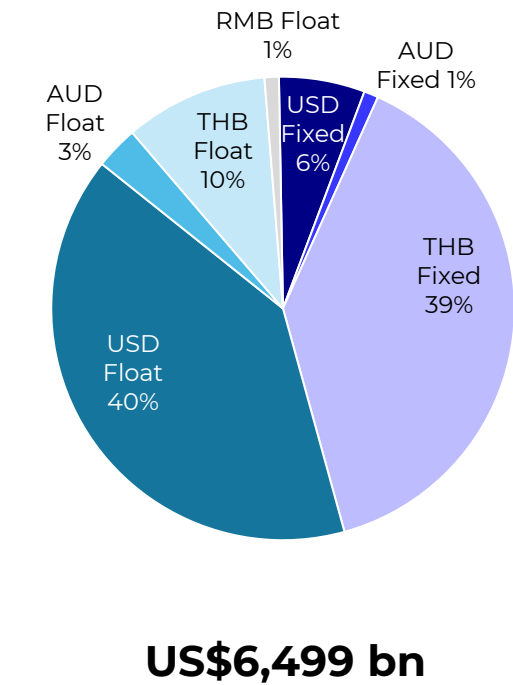
Banpu consolidated balance sheet – 2023

2023 CONSOLIDATED FINANCIAL POSITION

USD million



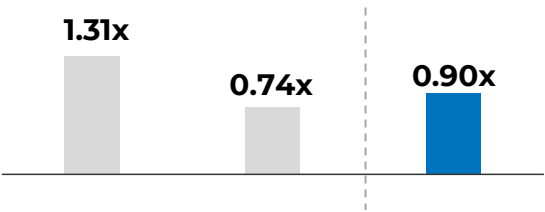
DEBT FX STRUCTURE



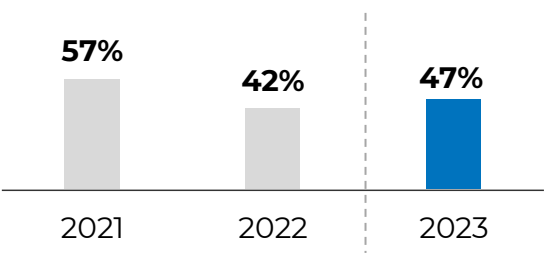
Total gross debt (31st December 2023)

GEARING RATIOS

Net debt / Equity* (x)



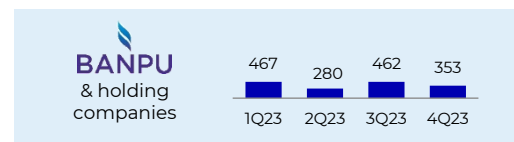
Net market gearing** (%)



Note: *Net debt to book value of shareholders' equity; **Net debt to enterprise value (enterprise value = net debt + book value of shareholders' equity)

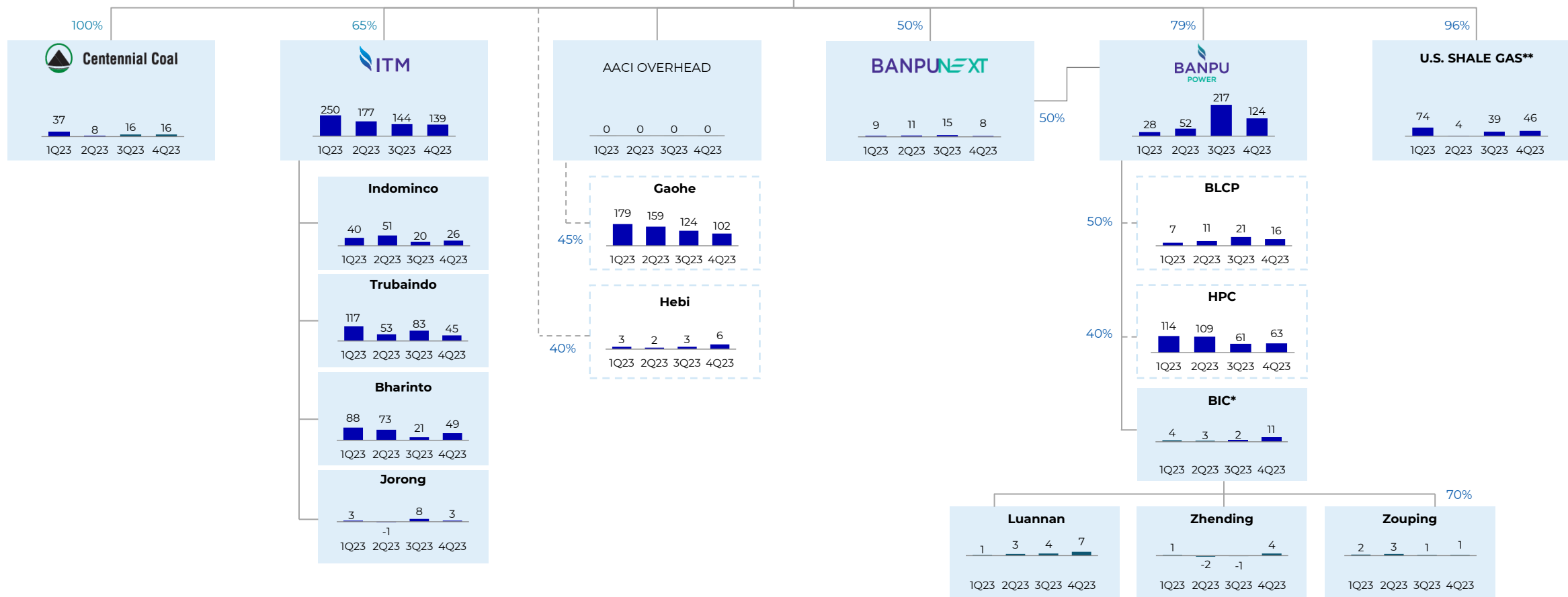
Banpu group EBITDA breakdown

USD million



Consolidated

Not consolidated



Note: all ownership 100% unless otherwise shown

*Banpu Investment China

**IFRS EBITDA. Significant differences between IFRS and BKV US GAAP EBITDAX include treatment of derivative gains and losses, depletion expense, accretion expense, stock compensation expense, BNAC expenses, equity income, and contingent consideration gains and losses of asset acquisitions

Banpu group net debt breakdown



Note: All ownership 100% unless otherwise shown; *Banpu Investment China

Banpu consolidated: operating profit

USD million	2023	2022	YoY%
Total sales revenues*	5,159	7,693	-33%
Sales revenue – Coal**	3,310	5,190	-36%
Sales revenue – Gas	735	1,658	-56%
Sales revenue – Power	932	746	+25%
Sales revenue – Energy Technology	92	7	+1,311%
Cost of sales	(3,666)	(3,616)	
Gross profit*	1,493	4,077	-63%
Gross profit – Coal**	1,114	2,948	-62%
Gross profit – Gas	20	1,019	-98%
Gross profit – Power	351	87	+303%
Gross profit – Energy Technology	23	1	+2,736%
Gross profit margin (GPM)	29%	53%	
<i>GPM – Coal</i>	<i>34%</i>	<i>57%</i>	
<i>GPM – Gas</i>	<i>3%</i>	<i>61%</i>	
<i>GPM – Power</i>	<i>38%</i>	<i>12%</i>	
<i>GPM – Energy Technology</i>	<i>25%</i>	<i>12%</i>	

Note: *Including other businesses; **Including coal trading

Banpu consolidated: operating profit

USD million	2023	2022	YoY%
Gross profit	1,493	4,077	-63%
GPM	29%	53%	
SG&A	(485)	(595)	
Royalty	(379)	(592)	
Income from associates	268	339	
Other income and Dividend	121	77	
Mining property	(30)	(23)	
EBIT	989	3,282	-70%
EBIT – Coal	633	2,256	-72%
EBIT – Gas	(59)	875	n.a.
EBIT – Power	427	183	133%
EBIT – Energy Technology	(12)	(32)	-61%
EBITDA	1,562	3,916	-60%
EBITDA – Coal	914	2,654	-66%
EBITDA – Gas	162	1,052	-85%
EBITDA – Power	482	231	+108%
EBITDA – Energy Technology	4	(22)	n.a.

Banpu consolidated: net profit

USD million	2023	2022	YoY%
EBIT	989	3,282	-70%
Interest expenses	(374)	(257)	
Financial expenses	(10)	(8)	
Income tax (core business)	(139)	(342)	
Minorities	(212)	(461)	
Net profit before extra items	253	2,215	-89%
Non-recurring items*	47	(62)	
Gain (Loss) on Derivatives Transactions	(164)	(816)	
Income tax (non - core business)	(50)	(42)	
Deferred tax income (expenses)	71	(137)	
Net profit before FX	158	1,158	-86%
FX translation	2	5	
Net Profit	160	1,162	-86%
EPS (US\$/share)	0.018	0.162	

Note: *Income from non-core assets and other non-operating expenses

Banpu consolidated: operating profit

USD million	4Q23	3Q23	4Q22	QoQ%	YoY%
Total sales revenues*	1,267	1,468	2,268	-14%	-44%
Sales revenue – Coal**	791	753	1,465	+5%	-46%
Sales revenue – Gas	186	181	420	+3%	-56%
Sales revenue – Power	250	469	333	-47%	-25%
Sales revenue – Energy Technology	22	33	1	-33%	+2,208%
Cost of sales	(932)	(998)	(1,145)		
Gross profit*	334	470	1,123	-29%	-70%
Gross profit – Coal**	214	246	833	-13%	-74%
Gross profit – Gas	11	9	231	+22%	-95%
Gross profit – Power	122	203	37	-40%	+230%
Gross profit – Energy Technology	8	8	0	-3%	+2,882%
Gross profit margin (GPM)	26%	32%	50%		
<i>GPM – Coal</i>	<i>27%</i>	<i>33%</i>	<i>57%</i>		
<i>GPM – Gas</i>	<i>6%</i>	<i>5%</i>	<i>55%</i>		
<i>GPM – Power</i>	<i>49%</i>	<i>43%</i>	<i>11%</i>		
<i>GPM – Energy Technology</i>	<i>37%</i>	<i>25%</i>	<i>11%</i>		

Note: *Including other businesses; **Including coal trading

Banpu consolidated: operating profit

USD million	4Q23	3Q23	4Q22	QoQ%	YoY%
Gross profit	334	470	1,123	-29%	-70%
GPM	26%	32%	50%		
SG&A	(120)	(123)	(210)		
Royalty	(79)	(83)	(168)		
Income from associates	50	53	104		
Other income and Dividend	44	26	30		
Mining property	(10)	(8)	(1)		
EBIT	218	335	877	-35%	-75%
EBIT – Coal	116	133	644	-13%	-82%
EBIT – Gas	(8)	(15)	190	n.a.	n.a.
EBIT – Power	117	217	50	-46%	+135%
EBIT – Energy Technology	(6)	(1)	(7)	n.a.	n.a.
EBITDA	353	462	1,023	-24%	-65%
EBITDA – Coal	174	188	722	-7%	-76%
EBITDA – Gas	46	39	246	+18%	-81%
EBITDA – Power	134	234	60	-43%	+123%
EBITDA – Energy Technology	(1)	3	(4)	n.a.	n.a.

Banpu consolidated: net profit

USD million	4Q23	3Q23	4Q22	QoQ%	YoY%
EBIT	218	335	877	-35%	-75%
Interest expenses	(103)	(99)	(80)		
Financial expenses	(4)	(2)	(2)		
Income tax (core business)	(31)	(22)	(83)		
Minorities	(33)	(49)	(112)		
Net profit before extra items	49	163	599	-70%	-92%
Non-recurring items*	(22)	(16)	(404)		
Gain (Loss) on Derivatives Transactions	(87)	(66)	(126)		
Income tax (non - core business)	(2)	(15)	(24)		
Deferred tax income (expenses)	118	(45)	85		
Net profit before FX	57	21	130	+126%	-56%
FX translation	(90)	38	(137)		
Net Profit	(33)	59	(7)	n.a.	n.a.
EPS (US\$/share)	(0.005)	0.007	(0.001)		

Note: *Income from non-core assets and other non-operating expenses

Centennial: income statement

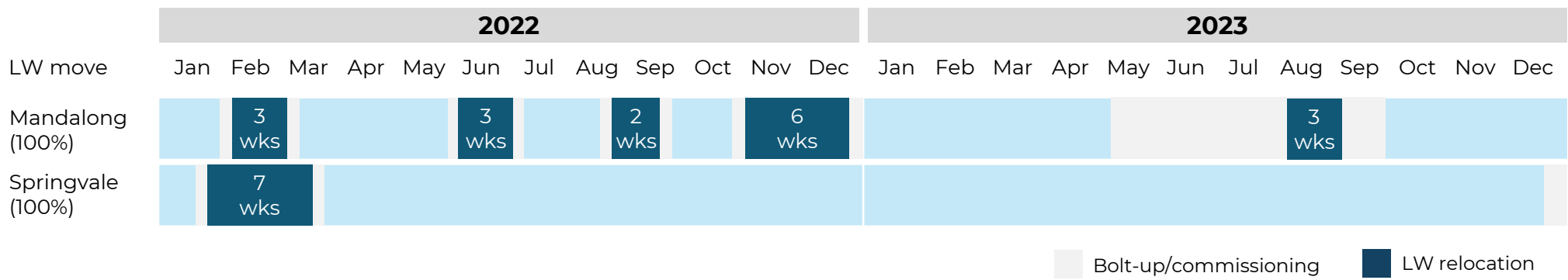
USD million	2023	2022	YoY%
Sales volume (Mt)	7.0	8.5	-18%
Sales revenue	805.2	1,253.3	-36%
Cost of Sales	(795.6)	(773.5)	
Gross profit	9.7	479.8	-98%
GPM	1%	38%	
SG&A	(94.2)	(104.4)	
Royalty	(46.8)	(78.5)	
Other income	14.2	7.4	
Other expenses	-	-	
EBIT	(117.2)	304.2	n.a.
Interest expenses	(34.3)	(38.1)	
Financial expenses	(8.5)	(2.7)	
Gain (loss) on exchange rate	(4.8)	(10.5)	
Gain (loss) on derivative	(17.6)	(50.2)	
Corporate income tax	0.0	0.0	
Deferred tax income	58.0	(61.0)	
Net Profit	(124.0)	141.8	n.a.

Centennial: income statement

USD million	4Q23	3Q23	4Q22	QoQ%	YoY%
Sales volume (Mt)	1.8	1.8	2.0	0%	-10%
Sales revenue	215.5	195.1	374.8	+10%	-43%
Cost of Sales	(206.1)	(182.6)	(194.7)		
Gross profit	9.4	12.5	180.1	-25%	-95%
GPM	4%	6%	48%		
SG&A	(22.8)	(21.2)	(30.0)		
Royalty	(12.4)	(10.8)	(23.5)		
Other income	1.0	0.6	2.6		
Other expenses	-	-	-		
EBIT	(24.8)	(18.9)	129.2	n.a.	n.a.
Interest expenses	(10.1)	(8.3)	(10.1)		
Financial expenses	(3.5)	(1.7)	(1.0)		
Gain (loss) on exchange rate	(5.2)	(2.6)	(4.4)		
Gain (loss) on derivative	(3.8)	(7.0)	(6.7)		
Corporate income tax	0.0	-	0.0		
Deferred tax income	15.3	11.4	(32.3)		
Net Profit	(32.1)	(27.1)	74.7	n.a.	n.a.

Australia coal: quarterly equity rom output

Total equity ROM (Mt)



Note: Production generally responds to the timing of longwall changeovers (i.e., lower production results during a longwall changeover period)



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