



Billion Electric Co., Ltd.

2025Q2 Investor Conference

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Speakers : Elsa Chang (GM of Billion Electric), Elaine Chen (GM of Billion Watts)

Billion Electric Co., Ltd. (Ticker Symbol: 3027)

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- This document is prepared in accordance with the International Financial Reporting Standards (IFRS) and has been reviewed by independent auditors.
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- The outlook presented in this presentation reflects the company's views as of today. The company is not obligated to provide further updates or reminders should there be any changes or adjustments in the future.

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1

Group Business Overview

Business Progress in Communication, Power, and Renewable Energy



Billion Group Key Updates from the Management Team

Overview

1. The Communications Division continued to fulfill orders from a benchmark U.S. utility customer, with both revenue and gross margin increasing quarter-over-quarter in Q1 2025. In June 2025, Billion Electric received official recommendation from the Utility Technology Council (UTC) as a qualified supplier based on field test results of U.S. private network equipment. Among the 11 globally recommended vendors, BEC products accounted for nearly 30% of the total — the highest share among all suppliers — and Billion was the only company from Taiwan to participate in the testing program. This recognition underscores Billion's leading position in the North American private network market for utilities.
2. The Power Business remained focused on highly customized markets such as commercial & industrial applications and cybersecurity equipment. In Q1 2025, gross margin remained at a healthy level, continuing to deliver stable profit contributions.
3. The large-scale front-of-the-meter energy storage project has been completed, and a 262MWh O&M contract was secured in April 2025. Additionally, two more sites totaling 392.5MWh are expected to be secured by Q3. The total O&M-managed asset value reaches NTD 16.3 billion, with an O&M scale of 754.28MWh (9.96% market share for active DREG transactions; 21.57% market share for both active and upcoming E-dreg transactions as of June 4, 2025). This will provide long-term stable cash flow, demonstrating strong competitiveness.
4. Strategic collaboration with Sino-American Silicon Products Inc. (SAS) has been deepened to enhance regional deployment of PV O&M services. Through the integration of O&M hubs, the partnership expands geographic coverage and strengthens project execution capabilities, thereby improving competitiveness in project bidding and regional expansion. A joint venture is currently being established, targeting behind-the-meter energy storage projects for leading semiconductor manufacturers. By leveraging group-wide resources and technologies, the partnership aims to deliver tailored energy storage project development.
5. **New Product Shipments to Drive Future Revenue Contribution**
In the second half of 2025, multiple new products are set to enter the market and begin contributing to revenue. (include the FusioNex, Earth X2, BNI 320KW, APS microinverter, and DC fast charging stations)
6. **Initial Entry into Overseas Markets, with First Project Deliverables Expected by Year-End**

Financial Highlights

1. Consolidated Revenue

- ✓ Consolidated revenue for Jan to May 2025 reached NTD 1.247 billion, representing a 52% year-over-year increase. The primary growth drivers included the equipment handover for the Billion Watts-Taichuang energy project, shipment of communication system orders from a major utility company, continued progress in domestic energy storage container assembly, and steady growth in the power solutions business.
- ✓ Revenue composition for Jan to May 2025 remained concentrated in Green Energy at 83%, followed by Communication at 12%, and Power Solutions at 5%, demonstrating continued progress toward a fully integrated one-stop solution across the energy and power value chain.

2. Consolidated Gross Profit

- ✓ The fluctuation in gross margin for Q1 2025 was primarily due to the cessation of operations by the original supplier of energy storage battery cabinets. To ensure ongoing O&M services and fulfill warranty obligations for existing projects, the company reclassified the supplier's inventory battery modules as maintenance spare parts and recognized an inventory impairment, which impacted the gross margin by approximately 7%.

3. Consolidated Profit and Loss

- ✓ Y25 Q1 EPS was NTD 0.32. Although core operating profit was impacted by an inventory impairment related to the renewable energy business—resulting in lower gross margin positive non-operating income from the sale of a previously developed energy storage project provided a significant offset, enabling the company to maintain positive quarterly profitability.

4. Impact of USD Depreciation

- ✓ USD-denominated revenue accounts for less than 20% of total consolidated revenue, with less than 40% of that portion converted into TWD. The impact of USD depreciation on consolidated revenue and gross margin is not material. The primary foreign exchange loss arose from restricted USD deposits.

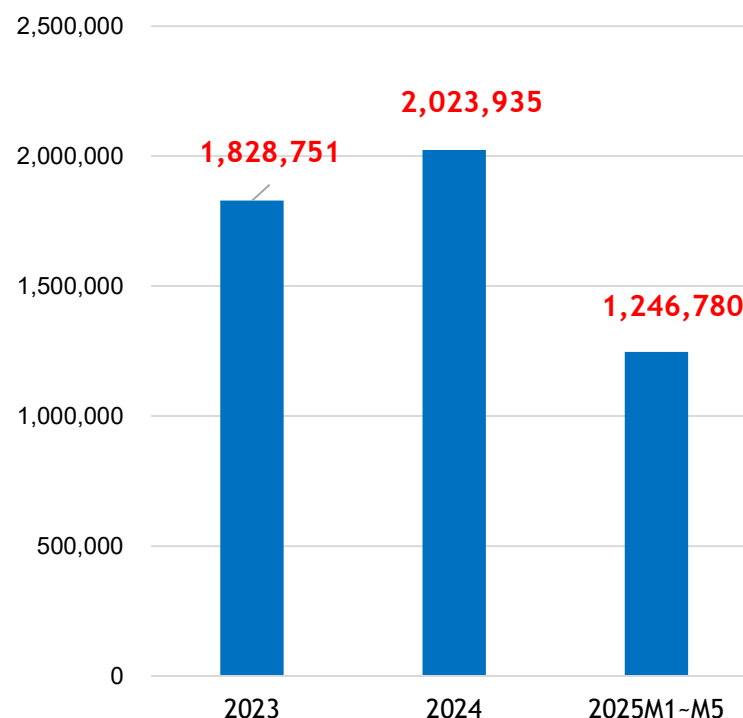
Billion Group 2025 M1-M5 Consolidated Revenue

2025 Jan-May consolidated revenue (unaudited)
Equivalent to NTD **1,246,780** thousands

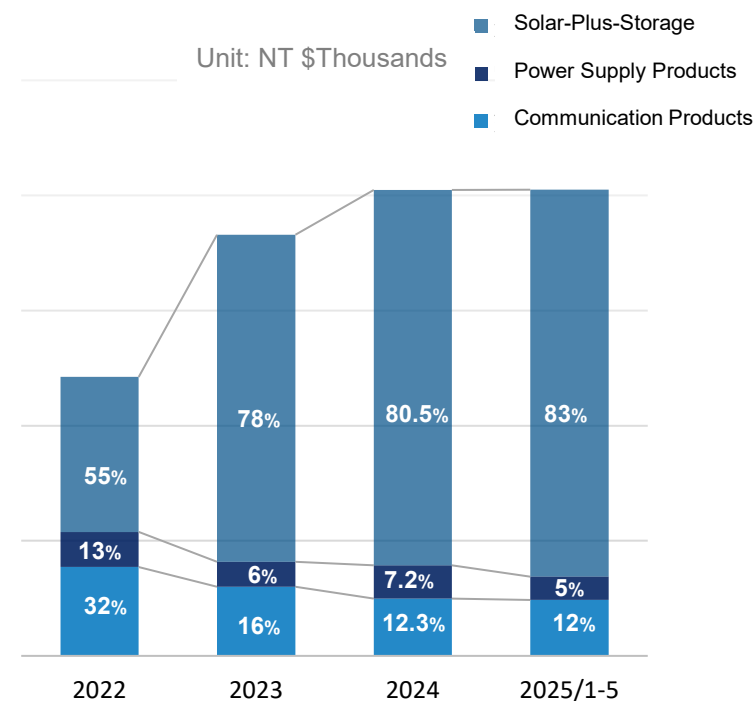
2024 Annual consolidated revenue
Equivalent to NTD **2,023,935** thousands

2023 Annual consolidated revenue
Equivalent to NTD **1,828,751** thousands

Consolidated Revenue Growth
Jan-May 2025(unaudited)
YoY +52%



Historical Revenue Breakdown by Major Product Lines



Billion Group Consolidated Statements of Comprehensive Income

Unit: NT \$Thousands	2025Q1	2024Q4	QOQ
Revenue	645,374	520,592	+ 24%
Gross Profit	92,353	107,754	- 14%
<i>Gross Margin</i>	14%	21%	
Operating Profit	(9,409)	(9,988)	- 6%
<i>Operating Margin</i>	-2%	-2%	
Non-operating Income and Expenses	67,642	31,305	+ 116%
Net Profit	42,486	14,687	+ 189%
Net Profit Attributable to Shareholders	36,200	15,372	+ 135%
Earnings per Share (NT \$)	0.32	0.13	+ 146%

Unit: NT \$Thousands	2024	2023	YOY
Revenue	2,023,935	1,828,751	+ 11%
Gross Profit	414,195	399,609	+ 4%
<i>Gross Margin</i>	20%	22%	
Operating Profit	(19,675)	(2,343)	+ 740%
<i>Operating Margin</i>	-1%	0%	
Non-operating Income and Expenses	64,328	136,701	- 53%
Net Profit	16,908	112,253	- 85%
Net Profit Attributable to Shareholders	(24,753)	71,148	Turned Loss-making
Earnings per Share (NT \$)	(0.22)	0.64	Turned Loss-making

Billion Group Consolidated Statements of Balance Sheet

Unit: NT \$Thousands	2025.03.31		2024.12.31		QOQ
Cash and cash equivalents	607,318	17%	660,036	17%	- 7.9%
Inventories	460,674	13%	286,767	7%	+ 60.6%
Cost to fulfill contracts-current	469,966	13%	848,227	22%	- 44.5%
PP&E	835,909	23%	835,455	22%	+ 0.1%
Total assets	3,624,522	100%	3,881,300	100%	- 6.6%
Current liabilities	1,001,456	28%	1,295,268	33%	- 22.3%
Contract liabilities	491,846	14%	684,212	18%	- 28.1%
Non-current liabilities	129,027	4%	106,598	3%	+ 21.0%
Total liabilities	1,130,483	32%	1,401,866	36%	- 19.4%
Total equity	2,494,039	68%	2,479,434	64%	+ 0.6%
Current ratio	208%		179%		
Debt ratio	32%		36%		

BILLION



Founded in
1973

Number of Employees
260

Listed in TSE: 3027
2002

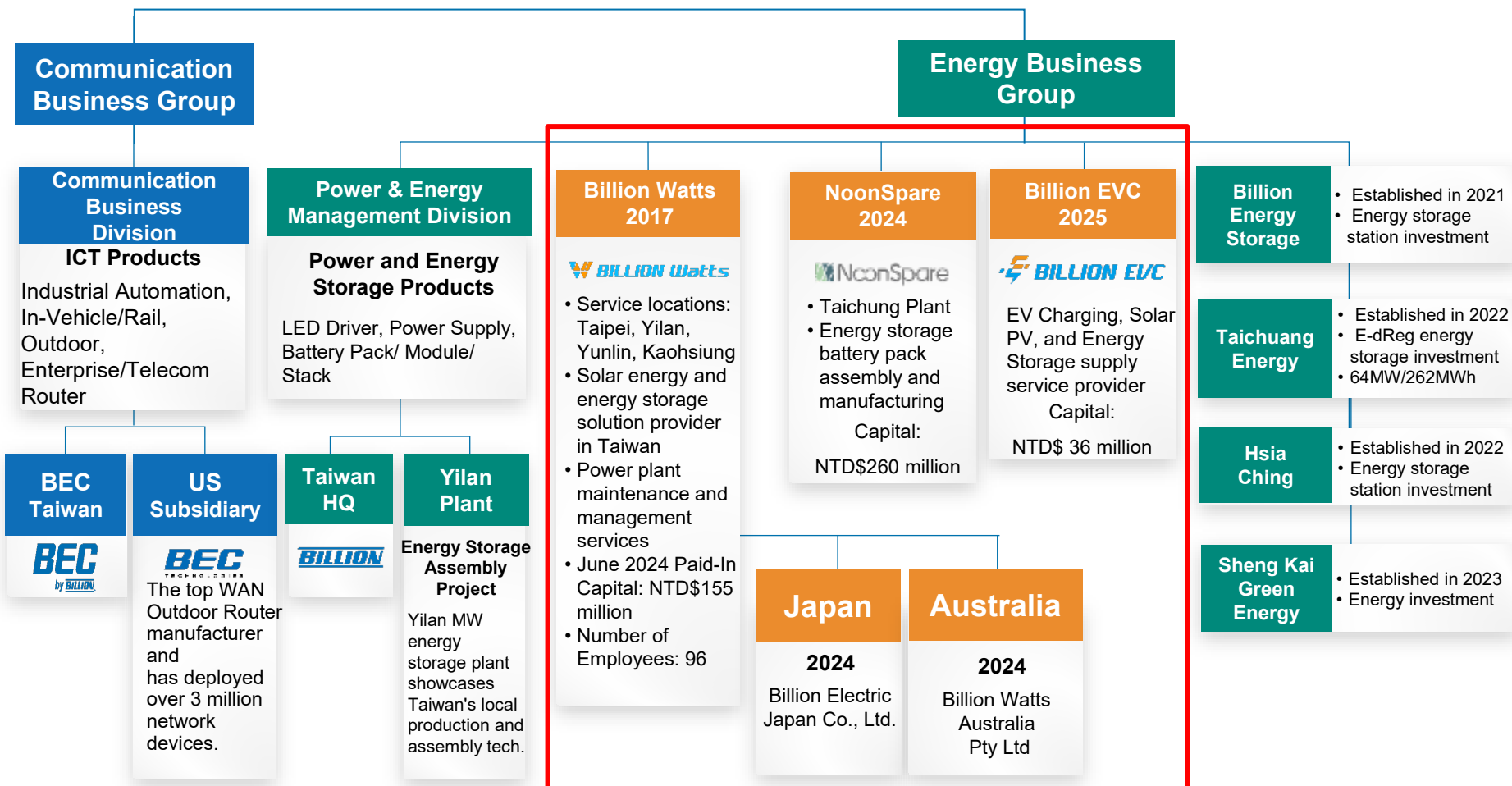
Capital
11.60 billion NTD

Market Cap
38.33 billion NTD

June, 2025

BILLION

BILLION Electric Co., Ltd.



Billion Group Comm. Market positioning

Critical Network and Communication Demands Accelerated by Global Digital Transformation

Digital Transformation Opens New Opportunities in North America's Utility Private Network Market

- Devastating Wildfires in California (USD 1.5 Trillion) and Hawaii (USD 12 Billion) [Expose the Urgent Need to Digitally Modernize Aging U.S. Utility Infrastructure.](#)
- BEC Teams Up with Spectrum and RAN (Nokia, Ericsson) Providers to Drive Grid Security Upgrades — [Backed by Proven Deployments and Global Certifications.](#)

Enterprise IoT and Managed IT Services Emerge as New Drivers of Growth

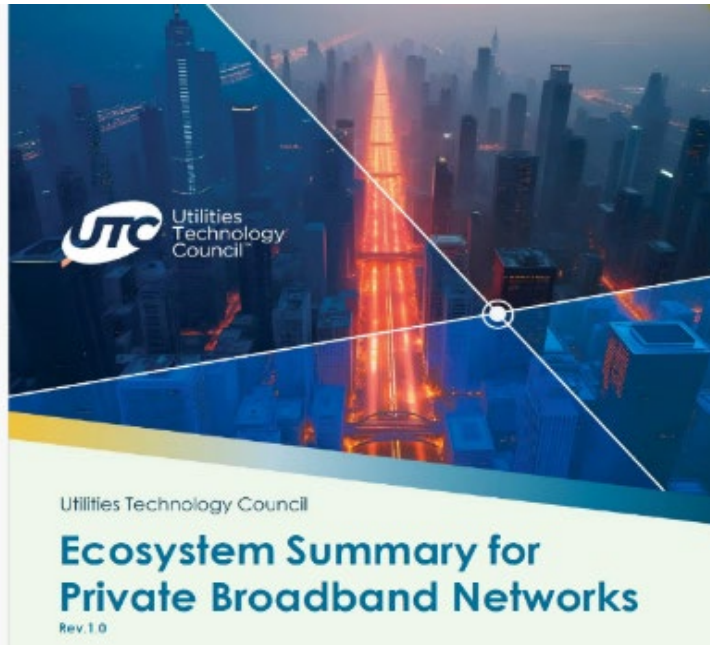
- BEC Enhances Enterprise Connectivity with Cloud-Driven Solutions Amid Digital Shift.
- [BEC is nearing completion of its FirstNet® certification](#)— the U.S. nationwide public safety broadband network — with the goal of achieving full qualification by the second half of 2025. By expanding network coverage across land, sea, and air, BEC aims to provide seamless connectivity for frontline emergency responders, further strengthening its competitiveness in the mission-critical communications market.

Emerging Business Opportunities in 5G NR and Non-Terrestrial Network (NTN) Satellite Communications

- The global acceleration of satellite communications, combined with expanding 5G infrastructure, is set to extend coverage into remote and extreme environments. Dense satellite constellations will work alongside 5G networks to overcome traditional connectivity limitations.
- BEC is actively positioning itself at the forefront of this convergence, leveraging its expertise in edge networking to support seamless integration between satellite and terrestrial 5G systems.

BEC® Recognized as the Sole Taiwan-Based Private Network Equipment Provider Endorsed by UTC (Utility Technology Council) in the U.S.

1. The Utility Technology Council (UTC) is a global trade association dedicated to serving critical infrastructure providers. Through advocacy, education, and collaboration, UTC creates a favorable business, regulatory, and technical environment for its members who own or operate information and communications technology (ICT) systems in support of their core operations.
2. June/2025 UTC(Utility Technology Council) has recommended a total of 11 qualified vendors and their products globally, based on rigorous field testing of private network solutions in the U.S. Among them, BEC® stands out as the only Taiwan-based company selected, with its products accounting for nearly 30% of the recommended list — the highest share among all global suppliers.
3. It is very rare for Taiwanese manufacturers to break into the U.S. power equipment supply chain due to high entry barriers. Once certified by the customer, long-term cooperation is established, allowing continuous and recurring orders within the supply chain.



Taiwan
Manufacturer

UTC Announcement	3GPP Band	Frequency	Aviat	BEC	Easymetering	GE	Hitachi	Landis	Nokia	Siemens	Tait Comm.	Ubiik	TTL	BEC %
US Trial Band Announcement	B71	617-652 Mhz 663-698 Mhz	2	6	0	2	2	0	1	0	0	0	13	46%
	B26	817-824 Mhz 862-869 Mhz	2	7	0	7	5	5	0	1	3	0	30	23%
	USB 8/106	896-901 Mhz 935-940 Mhz	2	3	1	6	0	2	1	1	2	1	19	16%
	n110	1,390-1,395 Mhz 1,432-1,435 Mhz	1	0	0	0	0	0	0	0	0	0	1	0%
	B54	1,670-1,675 Mhz	0	1	1	0	0	0	0	0	0	0	2	50%
	B48	3,550-3,700 Mhz	2	9	1	6	4	1	1	0	0	0	24	38%
TTL			9	26	3	21	11	8	3	2	5	1	89	
			10%	29%	3%	24%	12%	9%	3%	2%	6%	1%		

Billion Group Comm. Market positioning



Utility Private Networking

**Successful Deployment
in 5G Private Networks**

Breakthrough in the U.S. Utility Market (Electricity, Water, and Natural Gas)

Orders for 4G/5G routers from leading U.S. power companies will continue in the second half of 2025. BEC's strong technology and reputation have earned high customer recognition, fueling brand spillover effects. Surrounding partners and clients are actively discussing additional products with BEC, presenting opportunities for continued market share growth.

Recommended UTC Private Network Equipment Vendors, Certified Products Account for Nearly 30%

The latest UTC-approved product list for private networks (US_B8, B26, B48 & B71) recommended to global utility members features BEC products accounting for nearly 30%. As a leading private network modernization provider, BEC delivers the most reliable and cost-effective communication solutions.



Industrial IoT

**Managed IT Services
Public Safety
Certification**



Obtained orders from many chain stores

Providing high-speed, secure, and stable network services through a one-stop cloud management platform, reducing IT costs and creating long-term, stable service revenue.

FirstNET® Built with AT&T , A program of firsts for public safety

Built with and for first responders, BEC 5G NR M2M device is nearing completion of its FirstNet® approval is the first to deliver priority and preemption for voice and data across 5G and LTE spectrum - keeping you connected when it matters most.

The key to success lies in BEC's ability to offer an integrated cloud management system (BECentral®) compatible with its own routers, providing real-time data and issue reporting.

Application

Power companies, public utilities, smart grid upgrade projects, public safety, energy Internet of Things, full coverage high-speed network solutions, etc.

Seizing the U.S. Utility 5G Private Network Opportunity to Accelerate Grid Modernization

Replicating a Successful Business Model to Deepen Chain Brand and Telecom Customer Expansion

Billion Group Renewable Energy Market Deployment

Solar Photovoltaic and Energy Storage

Diverse Solar PV Deployment Across Various Project Types to Capture Policy and Green Power Market Opportunities.

Maintaining a Leading Position in Front-of-the-Meter Energy Storage.

Actively Expanding Behind-the-Meter Energy Storage Project Scale Through Partnerships with ESCOs and Financial Investors.

Integrated System Design and Integration

NoonSpare/Billion successfully completed local production of liquid-cooled battery modules and outdoor battery cabinets.

Targeting OEM opportunities for base station batteries and cybersecurity applications for Battery Management Systems (BMS) in Taiwan.

Software Value-Added Solutions

Strengthening in-house development of five major energy management systems—Pixel View, AIoT, EMS, SCADA, and EV-EMS—to build comprehensive cloud-based monitoring and operational capabilities.

After-Sales Service and O&M

Actively securing domestic O&M contracts for solar PV and energy storage projects.

The business has reached a scale of nearly NTD 10 billion, effectively enhancing workforce efficiency and technological capabilities.

International Market Development

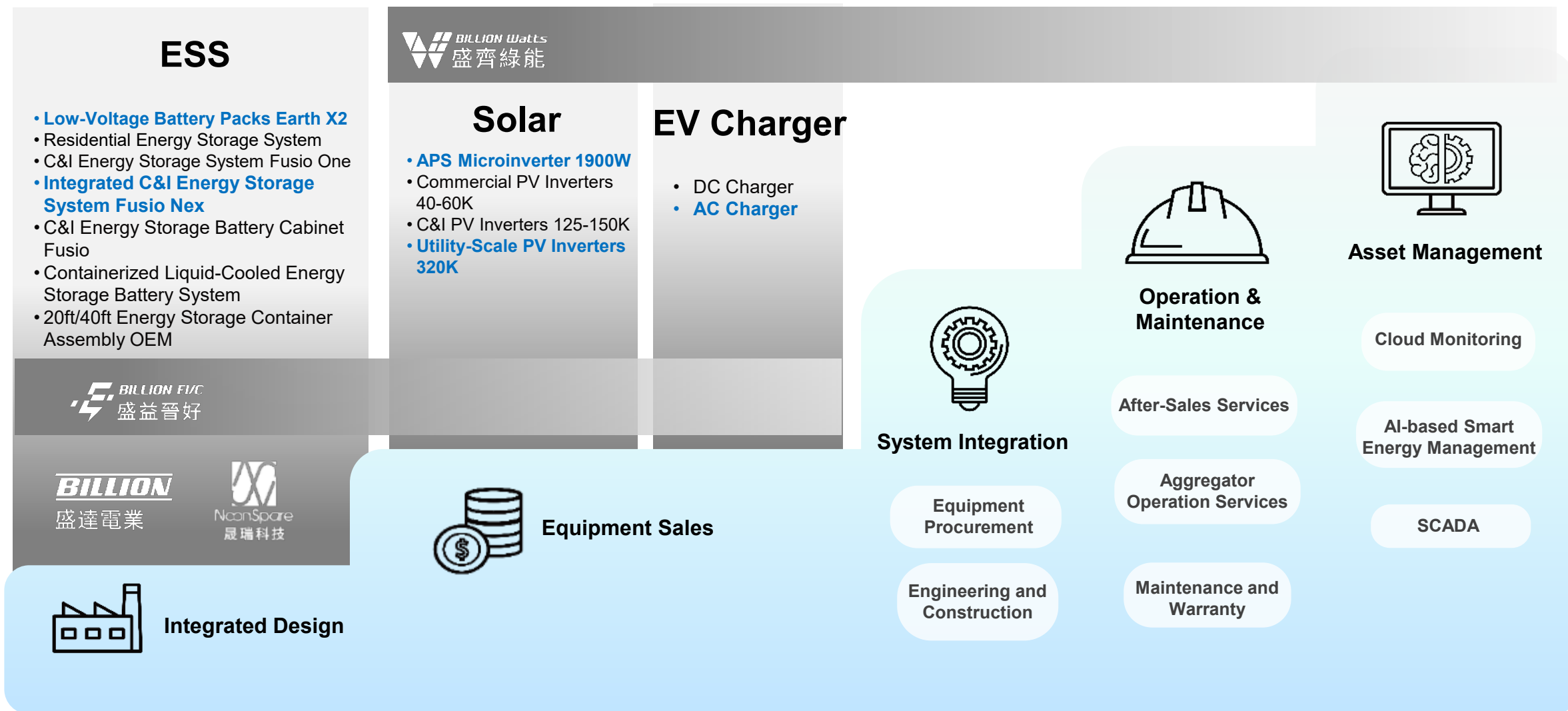
Establishing demonstration sites in Japan and Australia to advance international energy storage and solar PV projects.

In response to global de-Sinicization strategies, expanding into international markets with MIT-branded and cybersecurity-certified products.



Billion Group One-Stop Smart Energy Solutions

Providing end-to-end integrated services for enterprises, factories, communities, and project sites by deploying energy storage systems, solar PV plants, EMS, and EV chargers—covering design, equipment supply, construction, as well as subsequent O&M, asset management, and cloud-based monitoring.



Energy Highlights

2024
Yunlin-Chiayi's First
Large-Scale Energy
Storage Facility

64MW



Total ESS
construction capacity

210MW +

Specializing in industrial and commercial energy storage, power trading platform and solar storage solutions of users.

Power Trading Platform
Participation

133MW +

The first domestic aggregator to connect storage resources to the grid in Taiwan.

2021
Launched
SCADA system

Billion Watts
Number of energy
storage sites in
Taiwan ranks

No.1

Sino-American
Silicon
Products(SAS)

Strategic investment partner
of green energy plan

Pixel View
Self-developed monitoring
system total output

550MW +

Adopted by major renewable
energy investors.

Power Plant
Asset
Management
Total asset under
maintenance
reached

15.8billion

Total PV inverter
installation capacity

532MW +

Including roof, floating, ground-mounted, agrivoltaics and fishery and electricity symbiosis types

EV Charger Deployment

357units+

Including green energy communities and CPO-operated parking lots equipped with EV-EMS energy management systems.

OEM/ODM
Battery
Manufacturing –
Cumulative Module
Shipments

17.58

MWh+



Billion Group Renewable Energy Project Portfolio Overview

The Solar-Storage O&M Business

Successfully Commissioned and Grid-Connected Over 1,800 Solar Power Plants

Solar O&M Portfolio: 30 Sites
Total Installed Capacity 32.7MWh

Energy Storage O&M Portfolio: 26 Sites
Total Installed Capacity 754.28MWh

2025Q2 New 382.08MWh

FTM Energy Storage Site

23 Sites Completed

1 Site Completed This Year
Total Installed Capacity 360.7MWh

2025Q2 Complete 4 Sites

BTM Energy Storage Site

12 Sites Online or Under Construction with Orders Secured
Total Planned Capacity 20.65MWh

10 Sites Under Negotiation
Potential Total Capacity 83.16MWh

2025Q2 Complete 1 Sites

EMS/SCADA/PV+Storage+Charging

EMS: 1 Sites
Integrated PV + EV Charging + Energy Storage PoC
Deployment: 1 Sites

Total Installed Capacity 44.68MW

6 Sites Under Negotiation
Total Installed Capacity 15.95MW

Charger Deployment Site

Total Deployment 13 Sites/
357 Units
Total Installed Capacity 2.67MW

2025Q2 2 New Sites/ 99 Units Added

OEM/ODM Battery module

Battery Modules Shipped 17.58MWh

Under Negotiation **50.72MWh**

2025Q2 Shipped 5.78MWh

Japan

Under Negotiation
ESS : 36.18MWh

Australia

Contract Signed
PV: 22MWp
BESS: 44MWh

Overseas BTM Energy Storage / Solar PV Sites

Palau

PV : 260kWp
ESS : 350kW/1,978kWh

Marshall Islands

PV : 224kWp
ESS : 200kW/1,720kWp

Tuvalu

PV : 11kWp
ESS : 11.5kW/20kWh

Strategic Alliance Synergies Realized

Optimizing Solar PV O&M Deployment



SAS × Billion Watts Deepening Regional Deployment of PV O&M Services

By collaborating on operation and maintenance resources, both parties enhance the flexibility of solar PV O&M services and optimize the cost structure.



Resource Sharing Enhanced Operational Efficiency

- Integration of O&M sites to expand geographic coverage
- Flexible cross-company deployment of O&M personnel to enhance dispatch agility
- Efficient resource allocation to achieve cost control and operational optimization



Expanded O&M Capacity Enhanced Market Competitiveness

- Collaborative operations enhance overall project O&M execution capacity
- Reduced long-distance personnel dispatch improves operational efficiency and employee satisfaction
- Strengthened market service capabilities and customer trust boost competitiveness in bidding and market expansion



Cross-Sector Resource Integration and Upgrade

Creating a New Value Chain for Energy Storage in the Semiconductor Industry

The Semiconductor Industry Has High Power Demand and Requires Uninterrupted Power Supply

Traditional Backup Power is Insufficient
— Ensuring Production Line Stability Has Become the Primary Challenge

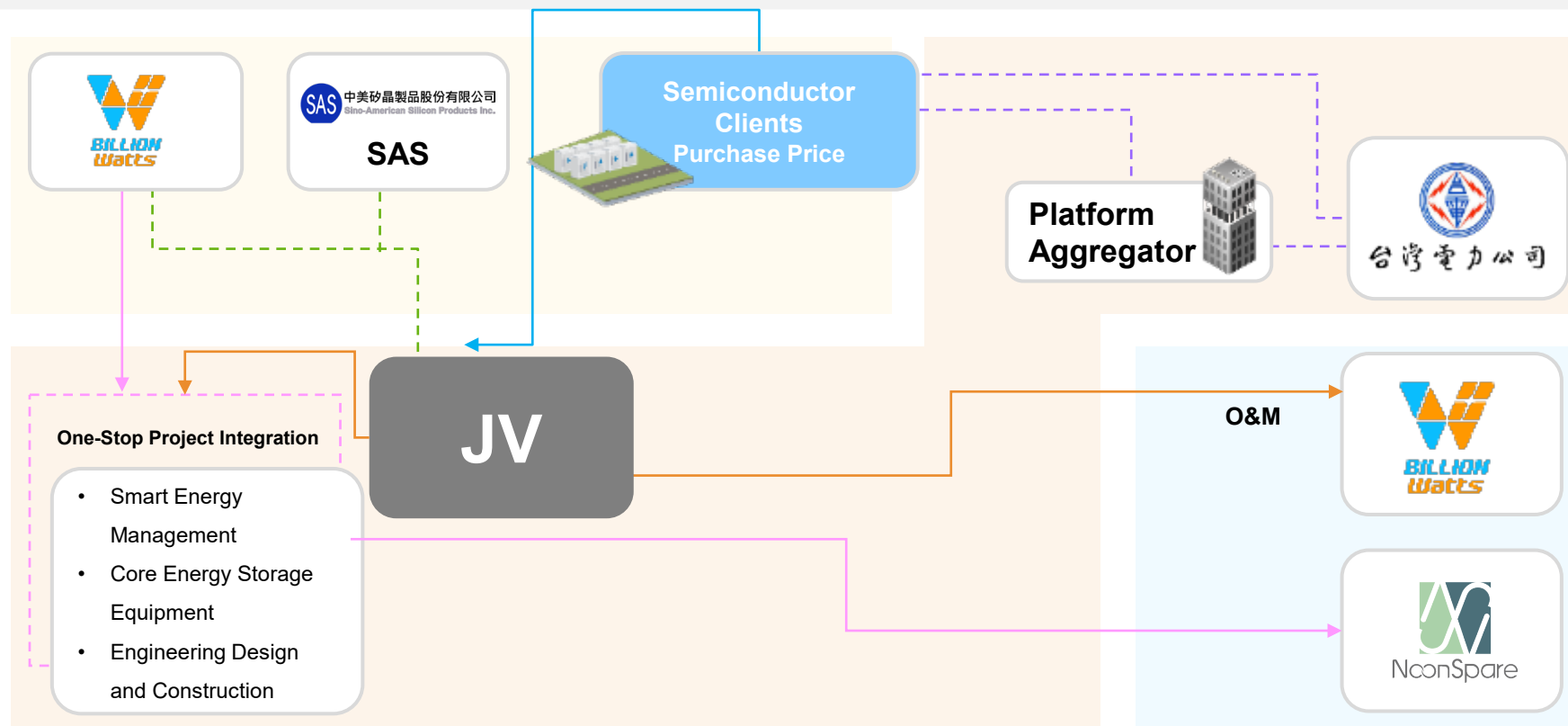
Policy-Driven Rigid Demand

With the Introduction of Carbon Fees and New Regulations for Heavy Electricity Users, Enterprises Must Accelerate Investments in Renewable Energy and Energy Storage

Supporting the Semiconductor Industry in Building Resilient Power Systems and Enhancing Sustainable Competitiveness!

JV Collaboration for Innovative Solutions

- Leverage Group Resources and Technology to Deliver Tailor-Made Energy Storage Solutions
- Empower Semiconductor Clients to 「Maintain Continuous Production, Reduce Costs, and Advance ESG Goals」



Fusio Nex

Specifically Designed to Reduce Costs and Upgrade Capabilities for Commercial and Industrial Users



Modular Capacity and Flexible Discharge Scalability

- Each Cabinet Provides 261 kWh, Scalable up to 4 Cabinets for a Total of 1,044 kWh.
- Customizable for 2 to 8 Hours of Continuous Discharge, Offering Flexible Support for Various Energy Storage Applications and Grid Dispatch Strategies.

Comprehensive Safety and Certification Framework

- Certified by CNS/IEC/UN Third-Party Standards to Mitigate Technical and Regulatory Risks.
- Equipped with Active Cell Abnormality Detection and Integrated Water-Based Fire Suppression Design to Enhance Operational Safety.

Locally Manufactured in Taiwan

Locally Manufactured with Real-Time System Integration Support and After-Sales Service.

Integrated for Diverse Energy Scenarios

Directly Connectable to Solar PV and Generators, Supporting a Wide Range of Behind-the-Meter Applications Including Peak Shaving, Backup Power, and Green Power Coupling.



MOT New Product Launch!

Equipped with Flexible Capacity and Robust Safety Protection Capabilities

Integrated with Solar and Generator Inputs Fully Compatible with Diverse Behind-the-Meter Application Scenarios



Earth Low-Voltage Battery Pack

Residential, Commercial, and Mobile Charging Application Scenarios

RESS *Low-pressure 48100*
Residential Energy Storage Battery System

Designed to Meet Energy Storage Needs on the Residential User Side

Low-pressure 48V/100Ah (5.12 kWh)

Enables Energy Independence, Electricity Cost Optimization, and Backup Power Functionality

Compatible with Multi-Brand Hybrid Inverters, Integrating Seamlessly with Solar PV Systems

Certified with CNS, IEC, and UN38.3 Standards Supports Wi-Fi, Bluetooth, and Various Interface Integrations
Locally Manufactured in Taiwan with Real-Time Technical Support



Residential Solar Storage System



Commercial Solar Storage System



Mobile Charging and Energy Storage

Market Deployment and Operational Status

- MIT Localized Production to Expand Product Lines and Enhance Technical Capabilities.
- Collaborating with Domestic System Integrators to Advance Microgrid Application Partnerships.
- Competitive Edge in Supply Capability and After-Sales Service to Strengthen Market Position

Building on Residential Energy Storage Technology Foundations Developing Mobile Charging and Storage Solutions with Integrated Multi-Energy Management



BEVC 480K

Capturing Public and Enterprise Opportunities in High-Power Fast Charging Infrastructure Deployment

DC

Single Cabinet up to 480 kW,
Supports up to 8 Charging Ports

Split-Type DC Fast Charger



Transportation Hubs



Corporate Campuses
/ Fleet Operations



Commercial Complex Hubs /
Parking Facilities



Policy Incentives Driving Growth

Taiwan's 350kW+ Fast Charging Market
Growing at 30–40% Annually

Strategic Positioning

Targeting Transportation Hubs,
Large Industrial Parks, and
Fleet Project Demands

Enhancing the Group's Revenue Potential

- Integration of Solar, Energy Storage, and EV-EMS Energy Management Platform
- Enhancing Customer Energy Management Efficiency

Optimization of Investment Returns

Maximizing Operational Efficiency and Investment Returns

- Modular design with up to 480 kW output, supporting simultaneous fast charging on up to 8 ports.
- Flexibly meets diverse charging needs for logistics, transportation, and industrial parks.

Giga 320K

Targeting Taiwan's Mainstream 2MW Distributed Energy Projects



PV *Three-Phase String Inverter*
PV Inverter



Agri-/Aqua-PV Co-Location Projects



On-Site Power Generation for Industrial Facilities



Heavy Electricity User

Taiwan's Distributed Ground-Mounted Projects 2MW is the Mainstream Project Size

Adopting the 320K Solution to Optimize Equipment Quantity, Cost, and O&M Efficiency

Group's One-Stop Integrated Advantage

- VPC Certified, Locally Manufactured in Taiwan
- Vertically Integrated Group : Solar, Energy Storage, EMS, and EV Chargers
- Proven Track Record with Over 1,800 Projects, Earning Strong Market Trust

APS Microinverter

Capturing Taiwan's Rooftop Solar Market

PV ^{1900W}
PV Inverter



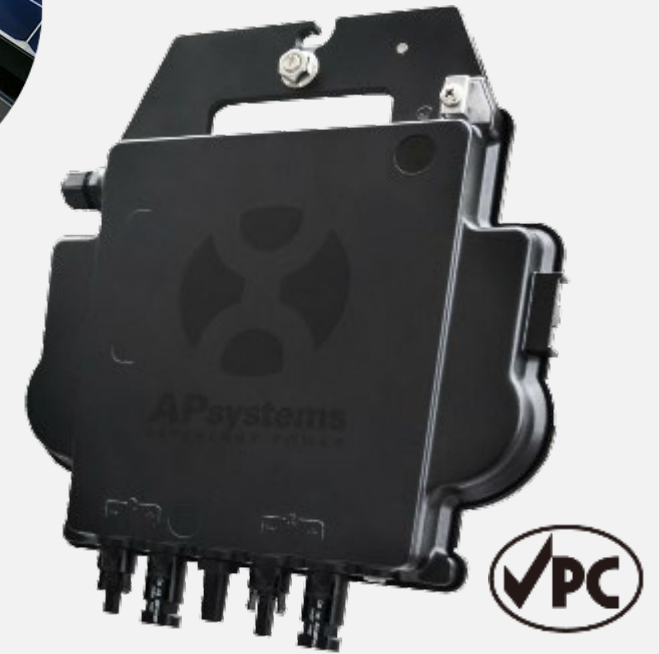
Residential Rooftop



Commercial/Industrial Rooftop



Community/Apartment Rooftops



Mandatory Solar Installation for New Buildings

Rooftops of New or Renovated Buildings Over 1,000m² (Approx. 302.5 Pings) Must Be Equipped with Solar Systems

(《Renewable Energy Development Act》Article 12-1)

Residential Rooftop Solar Acceleration Program

For rooftops under 1,000m², a subsidy of NTD 3,000 per kW is provided, with a maximum subsidy of NTD 300,000 per project.

(For a duration of four years from 2025 to 2028)

Flexible Installation Suitable for Various Roof Types
Durable and Reliable with IP67 Rating
Module-Level Monitoring for Intelligent Operation and Maintenance

Clear Mainstream Trend — APS Seizes Market Opportunities

- In 2024, Taiwan's rooftop solar capacity surpassed ground-mounted capacity for the first time.
- Over 40% development rate for large-scale rooftops, with only 10% for small residential/commercial rooftops.
- Small-scale distributed projects are set to become the mainstream.

Billion Group Key Differentiators and Business Opportunities Highlights

Capturing Taiwan's
Policy Incentives

Replicating Integrated Energy
Experience in International Markets

MIT Energy
Brand

Group Synergies

Renewable Energy Integration --Products + Solutions + O&M

Comprehensive Vertical Integration Capabilities

With an in-house system integration company and a professional project O&M team, we maintain full control from products to services.

Flagship Project Achievements

Successfully completed large-scale projects such as the 64MW/262MWh energy storage site in Yunlin, demonstrating diverse and rich practical experience.

International Expansion

Successfully entered the energy storage markets in Japan and Australia, establishing a strong presence internationally.

Comprehensive Project Integration Capability End-to-End Hardware and Software Solutions

- Not Just Selling Equipment: Independently Managing Everything from Site Assessment and Construction to Intelligent Operation & Maintenance.
- Customers Avoid Multiple Vendors, Resulting in Lower Costs, Higher Efficiency, and Reduced Risks.

MIT Localized Service Strongest Support through Policies and Subsidies

- Production, R&D, and After-Sales Service All Based in Taiwan, Enabling Fast Subsidy Applications and Smooth Acceptance.
- Rapid Issue Resolution and the Most Reliable After-Sales Support.

Intelligent Technology EMS Plus High-Safety Energy Storage

- Proprietary EMS Energy Management Platform Plus High-Safety Energy Storage System, Meeting Policy Requirements (Demand Response, Electricity Price Adjustment, Carbon Management).
- Unlike Competitors Who Only Sell Products, We Enhance Customer Benefits and Mitigate Risks.

Diversified Operating Models Expand Touchpoints Across the New Energy Value Chain

Future Megatrend Dividends

Taiwan Policy-Driven Growth (Driven by Electricity Tariffs, Carbon Fees, and Major Electricity User Regulations)

Ongoing increases in electricity prices and carbon fees, along with mandatory renewable energy installation requirements for major electricity users, are directly fueling surging corporate demand.

Strong Growth in Energy Storage and PV+ Storage Deployment

Taiwan Power Company (Taipower) actively promotes the "Renewables + Energy Storage" policy. Government subsidies for residential and commercial & industrial (C&I) energy storage are accelerating corporate investments in self-built sites, rapidly expanding market scale.

Integrated PV+ Storage+ EV Charging Opportunities

The growing popularity of electric vehicles (EVs) is driving widespread demand for charging infrastructure. Billion provides fully integrated solutions to capture emerging opportunities across the PV-storage-charging value chain.

Overseas Expansion and Strategic Alliances

Project deployments have been successfully executed in Japan and Australia. Going forward, the company will leverage strategic alliances to expand into new international markets in alignment with global net-zero carbon policies.

Stable Growth in Long-Term O&M Revenue

With the growing number of project sites, long-term O&M and upgrade services have become a **stable source of cash flow**, resulting in a more robust revenue structure.



Operating Value Model

Project Deployment Fees (Site Development, EPC Services, and System Integration)

Provides one-stop design and deployment services for corporate energy storage, solar PV, and EV charging infrastructure, **generating one-time project-based revenue**.

Annual Cash Flow from O&M and Upgrade Services

For completed project sites, the company collects recurring service fees annually for O&M, monitoring, and system upgrades, ensuring long-term and stable cash flow.

Product Sales (Energy Storage Systems, Inverters, and EV Chargers)

Proprietary MIT-branded products are directly supplied to project sites and system integrators, driving market share growth and expanding revenue channels.

Strategic Alliances / Public Tenders / International Shipments

Partnering with major corporate groups to pursue government and large-scale client tenders, while advancing international shipments to markets such as Japan and Australia, thereby **expanding global revenue opportunities**.

2

Behind-the-Meter Energy Storage Market in Taiwan

Market Strategy and Development Achievements



Taiwan Energy Storage Market Structure and Application Scenarios

BTM

Behind-the-Meter

Customer-Side Energy Storage
Enabling Energy Savings and
Operational Resilience

Residential & Small Commercial Applications

Residential Energy Storage

Energy Autonomy and Flexible
Efficiency

Commercial & Industrial Applications

Commercial and Industrial (C&I) Energy Storage

Flexible Configuration for Small and
Medium-Sized Energy Storage Systems

Cost Reduction and Energy Saving

Time-of-Use Pricing
Peak Shaving
Demand Response

Uninterrupted Backup Power

Islanding Operation
Diesel Generator
Support
Power Backup

Green Energy Self- Consumption

Renewable Energy Storage
Real-Time Green Power
Dispatch
Green Power Self-Consumption
for Carbon Reduction

Smart Electricity Usage

Time-of-Use (TOU)
Power Backup
Solar PV
Smoothing /
Regulation

Electric Utility

Transmission
Tower

Substation

Transmission
Tower

Substation

Smart
Meter

Transmission
Tower

Energy
Provider

Factory-Based
Frequency Regulation
Support

Corporate Energy
Management

Backup Power for
Medical Facilities

Charging and Peak Shaving
Energy Storage

FTM

Front-of-the-Meter

Smart Energy Storage Market
Participation
Grid Stability with Revenue Generation

Grid-Scale Applications

Grid-Connected Energy Storage

Stabilizes the Grid and Provides Real-
Time Reserve Services

Enhancing Grid Resilience

Automatic Frequency
Control(AFC)
Regulating Reserve(dReg)
Supplemental Reserve(E-dReg)
Spinning Reserve

Real-Time Green Power Dispatch

Renewable Energy Grid
Integration Green Power
Storage and Dispatch
Green Energy Self-
Consumption and Carbon
Reduction

Immediate Revenue Generation

Energy Trading Platform – Storage Arbitrage ,AFC
Service Fees & Capacity Rebates, dReg / E-dReg
Ancillary Service Fees, Demand Response (DR)
Incentives and Subsidies from Taipower

Taiwan's Electricity Pricing Policy and Market Trends

Facing rising renewable energy penetration and the dual pressures of increasing electricity prices and carbon fees, enterprises are in urgent need of innovative energy management strategies.

✓ **Industrial electricity prices**
increased by 26.8% cumulatively in 2024
and are expected to continue rising in 2025.

1

2

✓ **Taiwan Power Company's**
time-of-use electricity price
difference between peak and off-peak hours
reaches as high as NT\$6.86 per kWh,
resulting in continuously increasing
electricity costs for enterprises.

3

4

✓ **Mandatory Requirements Under**
the Heavy Electricity User Regulation
Enterprises with contracted capacity of 5,000 kW or above
must achieve a 10% green electricity target within five years,
or face substantial carbon fees.

✓ **Opening of Energy Storage and**
Power Trading Markets
The launch of the Virtual Power Plant (VPP) market provides
enterprises with opportunities to generate revenue through
energy storage.

Clear Policies for Behind-the-Meter Energy Storage Industry Opportunities Officially Launched

Subsidies, regulations, and site initiatives jointly drive significant industry project growth expected from Q4 this year through next year.

Carbon Reduction
Flagship Action Plan

Social Communication and
Collaboration Meeting

Technology Energy
Storage

► Release of Growth Momentum

The National Fire Agency released the 「Fire Safety Management Guidelines for Energy Storage Systems」, clarifying installation standards and lowering entry thresholds, thereby increasing willingness for project deployment.

► Clarification of Installation Incentives and

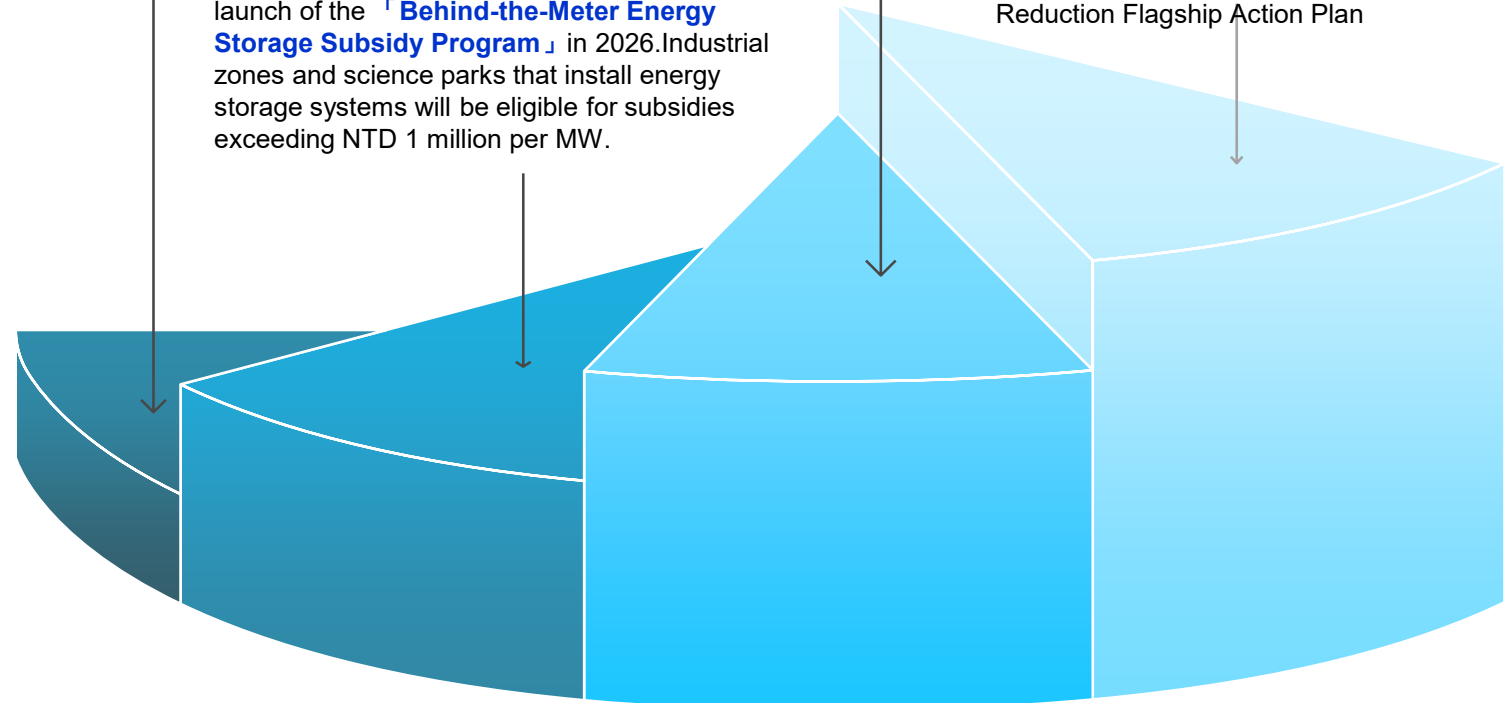
The Ministry of Economic Affairs announced the launch of the 「Behind-the-Meter Energy Storage Subsidy Program」 in 2026. Industrial zones and science parks that install energy storage systems will be eligible for subsidies exceeding NTD 1 million per MW.

► Expansion of Site Types

The National Fire Agency released the 「Fire Safety Management Guidelines for Energy Storage Systems」, clarifying installation standards and lowering entry thresholds, thereby increasing willingness for project deployment.

► Policy Officially Integrated into the Core Strategy

Behind-the-Meter Energy Storage Becomes a Key Driver in the Carbon Reduction Flagship Action Plan



C&I Energy Storage Application Models

Energy Efficiency Improvement and Cost Reduction Strategies

Energy Storage Solutions		Application Solutions 1	Application Solutions 2
		Real-Time Spinning Reserve + Electricity Price Shifting (24-Hour Power Usage)	Demand Response + Electricity Price Shifting (Large Electricity Consumer Obligation Capacity)
Energy Storage Applications	Time-of-Use Electricity Price Optimization	✓	✓
	Demand Response	✓	✓
	Fulfill Obligation Capacity		✓
	Voltage and Frequency Stabilization	✓	✓
Revenue Model	Basic Electricity Fee		✓
	Variable Electricity Fee	✓	
	Obligation Hour-Based		✓
	Real-Time Spinning Reserve Ancillary Services	✓	

Taipower Ancillary Services Products (Real-Time Spinning Reserve)

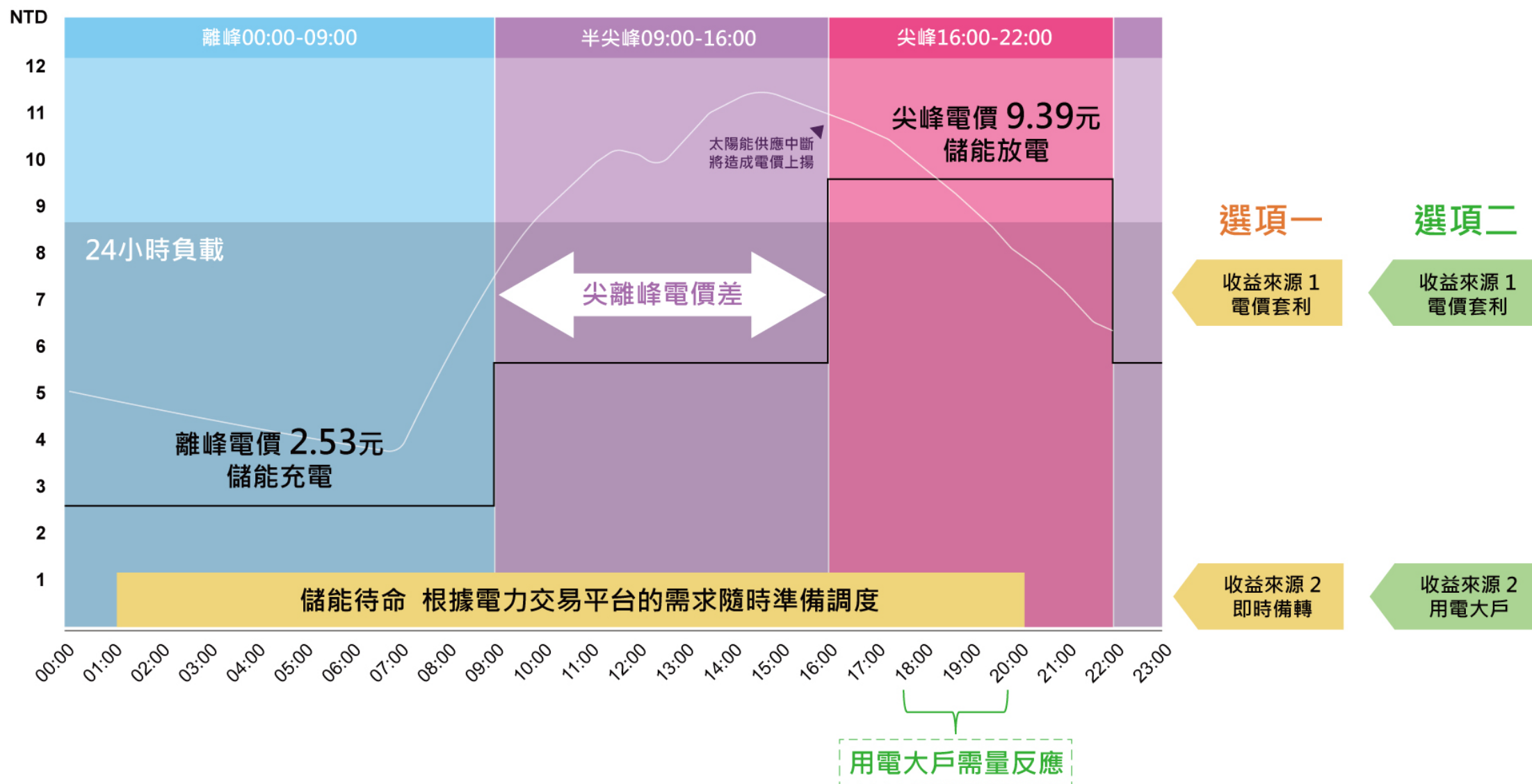
Product	Regulation Reserve		Energy-shifting with Dynamic Regulating Function Reserve E-dReg	Spinning Reserve	Supplemental Reserve
	dReg	sReg			
Purpose	Through automatic frequency control (AFC) or automatic generation control (AGC), output or input power to correct system frequency deviation.	Through automatic frequency control (AFC), reduce to correct the system frequency deviation.	In response to the increasing penetration of renewable energy and the system's load shifting demand, energy storage equipment can be used to quickly charge and discharge and store large amounts of electricity in order to enhance the flexibility of power dispatching.	In response to unexpected events such as unit outage or load sudden increase, its function is mainly to provide standby reserve, and to cooperate with load reduction after dispatch instructions are issued.	In response to sudden increases of system load or supply and demand forecast errors, economic dispatch is performed based on the order of generation costs. Its function is mainly to provide standby reserve, and to cooperate with load reduction after dispatching instructions are issued.
Response Time	≤ 1s	≤ 10s	≤ 1s	≤ 10min	≤ 30min
Duration	Continuous Service		Follow the Day-Ahead commitment	1hr	2hr
Suitable Resources	<ul style="list-style-type: none"> Generating Unit Interconnected Energy Storage System(Power Type) 	<ul style="list-style-type: none"> Demand Response 	<ul style="list-style-type: none"> Interconnected Energy Storage System(Energy Type) 	<ul style="list-style-type: none"> Generating Unit Self-Use Power Generation Equipment Demand Response 	<ul style="list-style-type: none"> Generating Unit Self-Use Power Generation Equipment Demand Response
2025 Market Requirement	500MW		500MW	500MW	1,000MW

*Source : ncas.taipower.com.tw/qualification/index.html.

*Source: Billion Watts Technologies Co., Ltd. **Confidential**

Energy Storage Application Solutions

Real-Time Spinning Reserve and Stable Power Supply Strategy



Fusio Nex C & I Energy Storage Integrated System

Features



Integrated Solar-Storage Solution

Supports solar integration to reduce electricity costs and maximize solar self-consumption.



Instant Backup

Achieves millisecond-level grid-connected/off-grid operating transitions, replacing or supplementing traditional backup power sources to enhance power supply stability and reliability.







Long-Duration Solution

In addition to maximizing peak and off-peak price differences, it also provides the capability to handle prolonged power shortages or demand fluctuations.

Application scenario

- ✓ Peak shaving
- ✓ Anti-Back feed
- ✓ Over-Contract Prevention
- ✓ Backup Function
- ✓ Self-Consumption

ConfigurationDiagram				
PCS	BNP-125K-400-E			
Battery	314Ah 0.5C			
System Power-Capacity	125kW	125kW	125kW	125kW
Beginning of Life (BOL)	261kWh	522kWh	783kWh	1044kWh
Full Charge/Discharge Time	2 hours	4 hours	6 hours	8 hours
Number of Units	1/1	1/2	1/3	1/4



IEC 61000



IEC 62477



IEC 62619



IEC 60730



UN 38.3



2025Q3 Acquired

Behind-the-Meter C&I Energy Storage System

Major Electricity Users:

Peak Shaving and Off-Peak Charging/Discharging Schedules to Optimize Electricity Cost Savings

Background

The user is a large electricity consumer with a contracted capacity of over 5,000kW. Under the large power user agreement, the user has opted to meet its required capacity by installing energy storage systems. By implementing peak shaving and off-peak charging/discharging schedules, the user achieves optimized electricity cost savings. Additionally, the user has reported its demand response load measures and energy storage obligation hours to Taipower, securing electricity fee rebates.

Deployment

Location : Changhua, Taiwan

Operation Date : 2025

Specifications : 1.3MW/3.096MWh

Equipment : Billion Fusio 344kWh *9pc

Benefits

- ✓ Utilizing energy storage to share instantaneous high load, avoiding triggering high contract capacity adjustments.
- ✓ Off-peak charging and peak discharging to reduce the electricity cost pressure caused by price fluctuations
- ✓ Supporting critical production lines and facilities to ensure uninterrupted operation during power outages
- ✓ Enhancing energy autonomy and increasing flexibility in carbon emission control for the enterprise

Behind-the-Meter C&I Energy Storage System

Semiconductor Industry: Creating a Demonstration of Energy Storage Applications in High-Precision Manufacturing

Background

The user is an automotive semiconductor manufacturing plant with a contracted capacity of over 2,500kW, where the production process demands extremely high power quality and stability. In collaboration with the Taoyuan City Energy Storage Assistance Program, the plant has implemented a behind-the-meter energy storage system, reducing electricity costs and enhancing energy dispatch flexibility through peak shaving and off-peak charging/discharging schedules. By integrating real-time spinning reserve and other demand response services, the plant maximizes the benefits of its energy storage system.

Deployment

Location : Taoyuan, Taiwan

Operation Date : 2025

Specifications : 500kW/1.075MWh

Equipment : Billion Fusio One 100kW/215kWh *5

Benefits

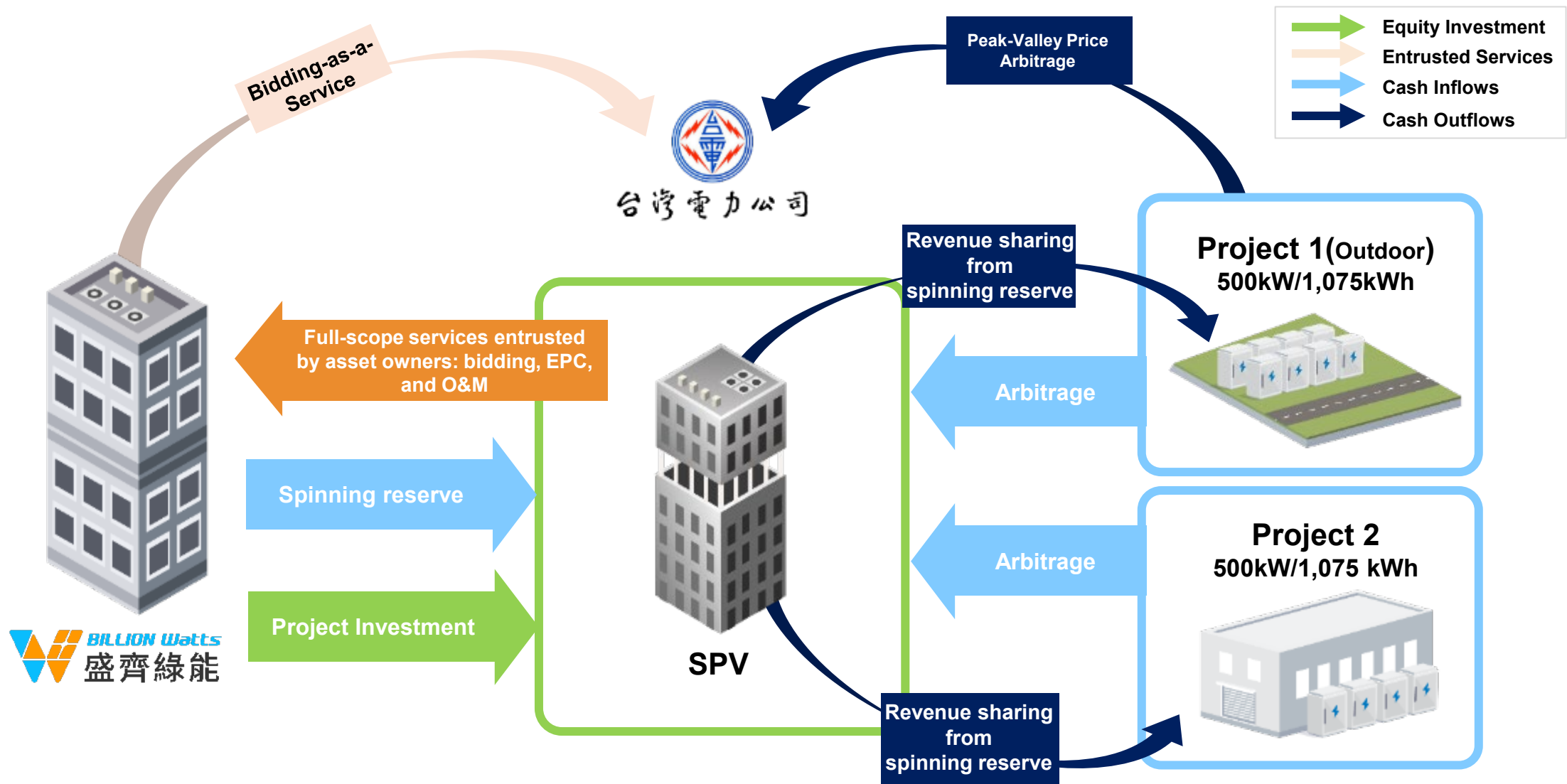
- ✓ Off-Peak Charging and Peak Discharging to reduce the electricity cost pressure caused by price fluctuations.
- ✓ By participating in real-time spinning reserve services, the company assists Taipower's electricity dispatch and earns service fees.
- ✓ Enhancing energy autonomy and increasing flexibility in carbon emission control for the enterprise.



*Source: Billion Watts Technologies Co., Ltd.

Confidential

Behind-the-Meter C&I Energy Storage Partnership Structure and Model



Billions Group Comprehensive Green Energy Deployment Achievements

Equipment Supply × System Integration
Supporting Taiwanese Enterprises in Building Green Competitiveness

Completed Chunghwa Telecom PoC Solar & Energy Storage Charging Project,
Creating a Green Energy Demonstration Site

System
Integration

Billion Watts

Integrating the group's solar, energy storage, and charging equipment, combined with the EMS Smart Energy Management Platform to provide one-stop energy solutions.

EMS Smart Energy Management: Accurately manages energy demand and resource allocation, enabling flexible execution of peak load shaving and smart scheduling. Effectively reduces enterprise electricity costs and enhances energy autonomy and operational resilience.

Equipment
Supply

Billion Electric

Provides high-efficiency photovoltaic inverters (PV Inverter) and modularized energy storage systems (ESS) to meet the needs of various enterprise applications.

Billion EVC

Provides comprehensive direct current (DC) and alternating current (AC) charging equipment to meet the requirements of diverse charging scenarios.



PV 103.24kWp
Billion Giga-40-60K
PV Inverter



ESS 100kW/215kWh
Billion Fusio One-100kW/215kWh
Energy Storage System



DC EV Charger 120kW
Billion BEVC-120kW
DC EV Charger



AC EV Charger 14kW
Billion BH-2000 7kW
AC EV Charger

3 Overseas Energy Business Deployment

**Australian Market Strategy and Development
Achievements**



The Importance of Energy Storage for Power Systems

Global Promotion of Energy Storage Systems for Renewable Energy Development

International policies are driving the rapid growth of energy storage

IEA

International Energy Agency

To achieve global net-zero emissions targets, the global demand for energy storage installations is expected to grow more than 10 times between 2023 and 2030.

U.S. IRA

Inflation Reduction Act

Provides a 30% Investment Tax Credit (ITC) for standalone energy storage systems, promoting the rapid growth of BESS (Battery Energy Storage Systems).

European Union

REPowerEU

Plans to support the development of flexible power resources and requires member states to accelerate energy storage deployment.

Australia ISP

Integrated System Plan

Estimates that by 2050, at least 46GW / 646GWh of new energy storage capacity will be needed to added to support a higher share of renewable energy systems.

Japan

GX Decarbonization Strategy

Promotes the widespread adoption of grid-connected energy storage systems, and subsidies will exceed 1.6GW of new energy storage capacity by 2030.

Complete Retirement of Coal-Fired Power Plants in Australia by 2040

Australia Total Potential USD 131.5 Billion by 2030

Solar PV Market

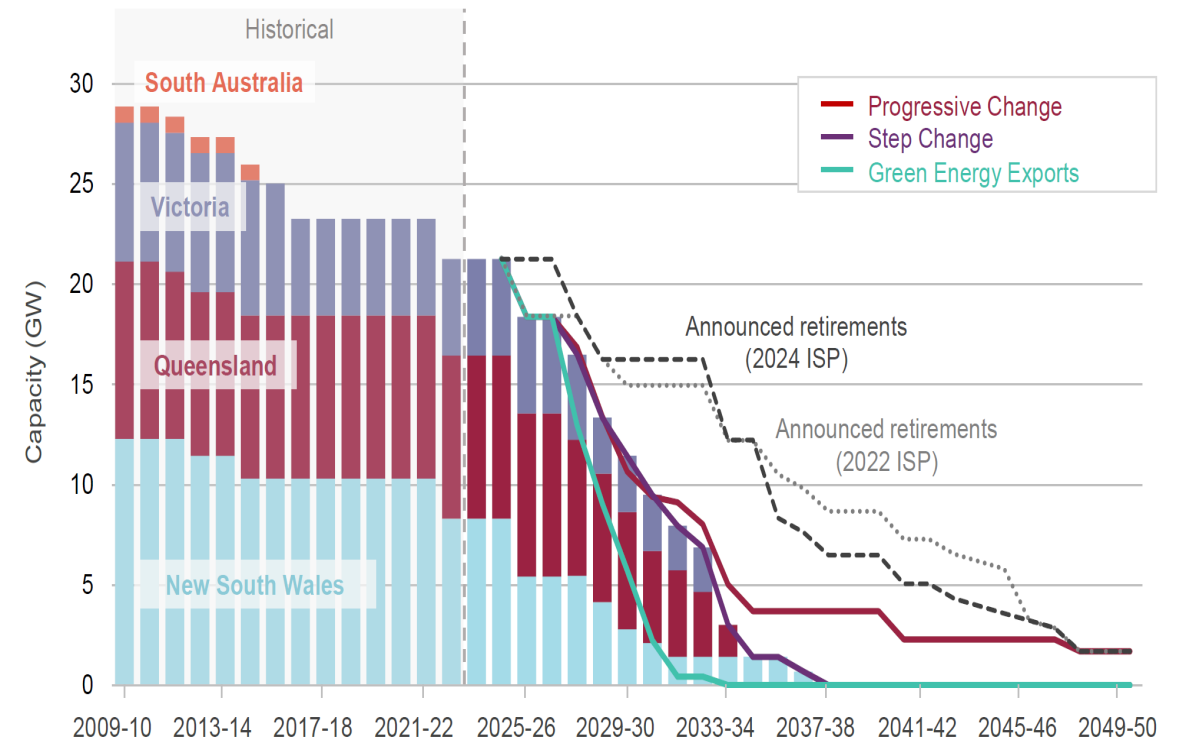
- Australia plans to achieve over 100GW of installed capacity by 2030, primarily driven by large-scale solar projects and residential distributed systems.
- Market Potential: Approximately USD 100 Billion

Energy Storage Market

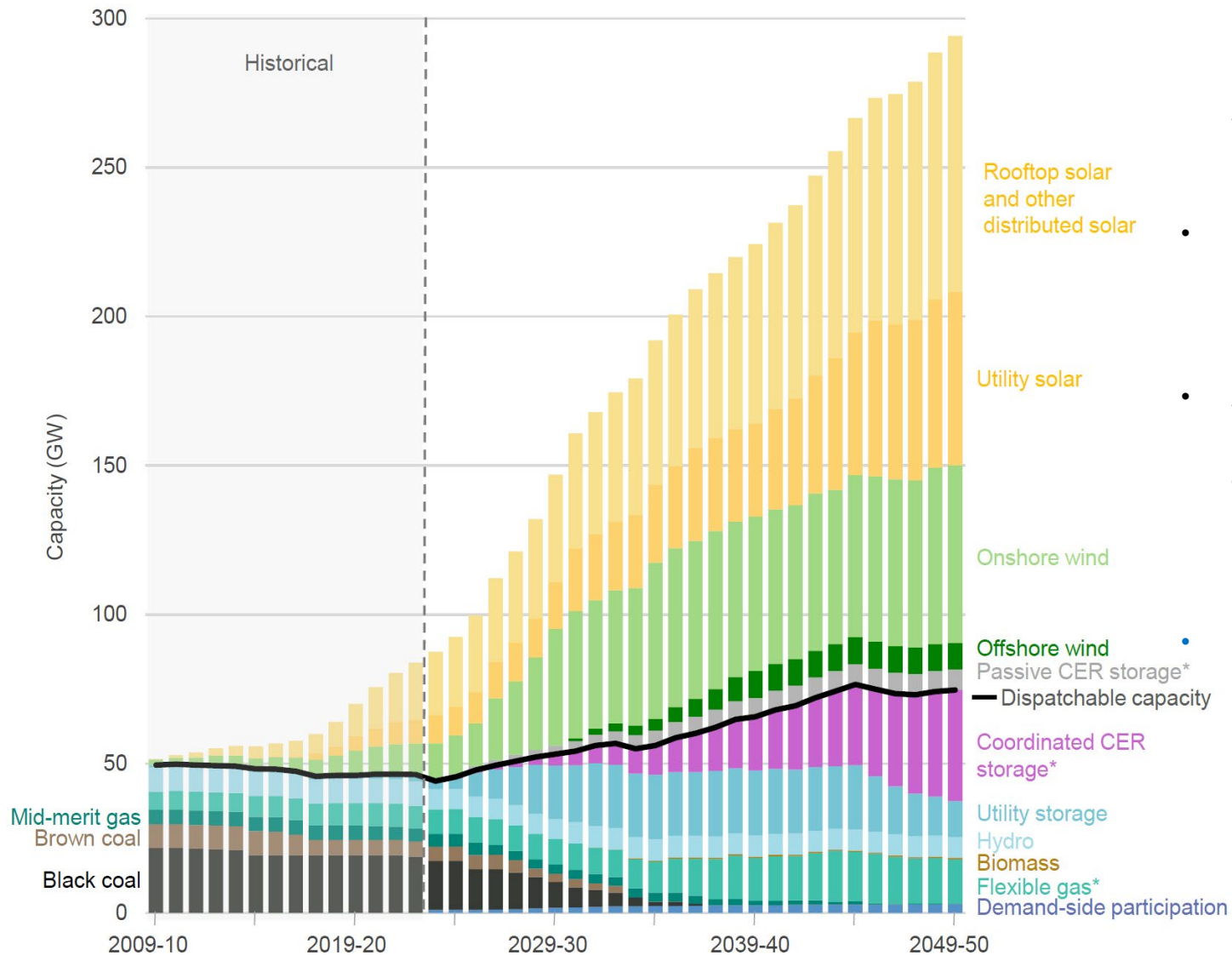
- Energy storage demand is growing rapidly, with projected capacity reaching 30GWh, supporting grid stability and the expansion of renewable energy.
- Market Potential: Approximately USD 31.5 Billion

- After more than half a century of operation, Australia's coal-fired generation fleet is approaching the end of its service life. It is projected that by 2035, **up to 90% of coal-fired power plants in the National Electricity Market (NEM) will be retired, with the entire coal fleet expected to exit by 2040.**
- Governments at all levels have set 2050 as the target year for achieving net-zero emissions, with interim emission reduction and renewable energy targets established along the way. **The Federal Government aims to reduce emissions by 43% from 2005 levels by 2030, and to achieve 82% renewable energy in the electricity mix by the same year.**
- Australia is progressing toward a renewable energy transition by 2050. Legacy energy sources now face decommissioning, as they have become **increasingly unreliable, costly to maintain, and less competitive compared to the growing supply of stable renewable energy.**

Figure 1 Coal capacity, NEM (GW, 2009-10 to 2049-50)



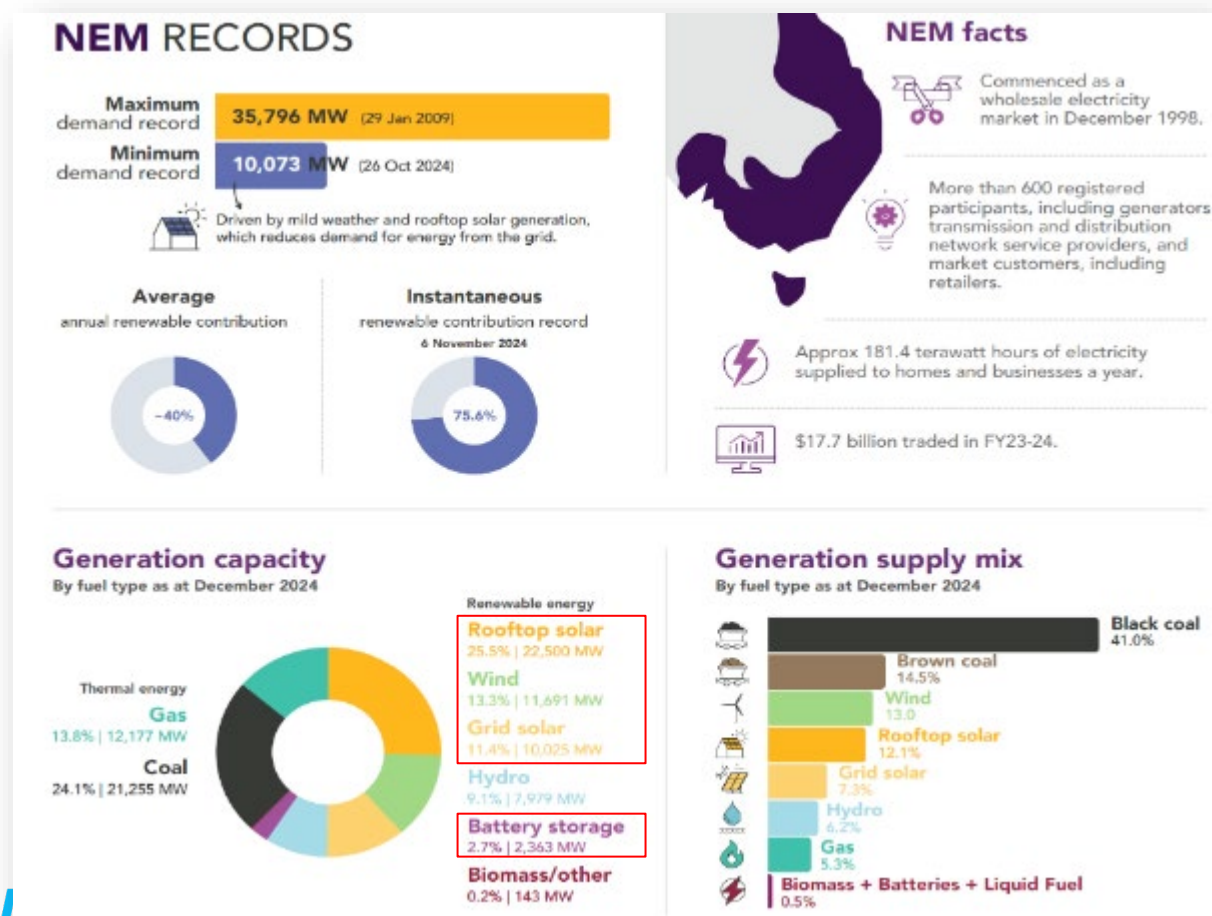
2050 NEM Energy Capacity Composition



- **Australia remains reliant on coal, which currently accounts for approximately 63% of installed capacity (32GW).** However, the use of renewable energy sources such as solar is steadily increasing. As coal is gradually phased out, market pricing will increasingly be driven by renewables and energy storage systems—such as batteries and pumped hydro—rather than by traditional fossil fuels.
- Under the 「**Step Change**」 scenario, the net present value (NPV) of annualized capital costs for all utility-scale generation, storage, reliability enhancement, and transmission infrastructure through 2050 is estimated at AUD 122 billion.
- An average of 6GW of new capacity must be added each year, compared to the current annual growth rate of approximately 3–4GW. Wind energy will dominate new installations through 2030, complementing the continued expansion of rooftop solar. **By 2050, installed capacity is projected to reach 58GW of utility-scale solar, 72GW of rooftop solar, and 69GW of utility-scale wind.**
- **The capacity of non-coal energy sources must quadruple to meet dispatchability requirements.** This includes utility-scale batteries, pumped hydro and other hydropower, coordinated consumer energy resources acting as virtual power plants (VPPs), and gas-fired generation. The target comprises **49GW / 646GWh** of dispatchable storage and 15GW of natural gas capacity.

National Electricity Market (NEM), Australia

The National Electricity Market (NEM) in Australia is one of the most advanced and mature energy trading markets in the world. It spans five major states and provides real-time electricity dispatch along with a multi-layered ancillary services framework. As renewable energy sources such as solar and wind rapidly become dominant, **Australia's overall grid renewable penetration officially surpassed 70% in May, with some regions reaching 100% during certain periods.** This highly variable energy structure presents new challenges for grid flexibility, stability, and market responsiveness, accelerating the deployment of energy storage systems, virtual power plants (VPPs), and intelligent dispatch technologies.



Renewable Penetration Rates

May 2025

	MIN	MAX
May 2025	22.8% ▲ 11.6% 4,443 MW Fri, 2 May, 2025, 03:30	70.0% ▲ 6.5% 18,012 MW Sun, 4 May, 2025, 12:00

May 2024	11.3% 2,836 MW Wed, 22 May, 2024, 22:00	63.5% 17,447 MW Wed, 29 May, 2024, 12:30
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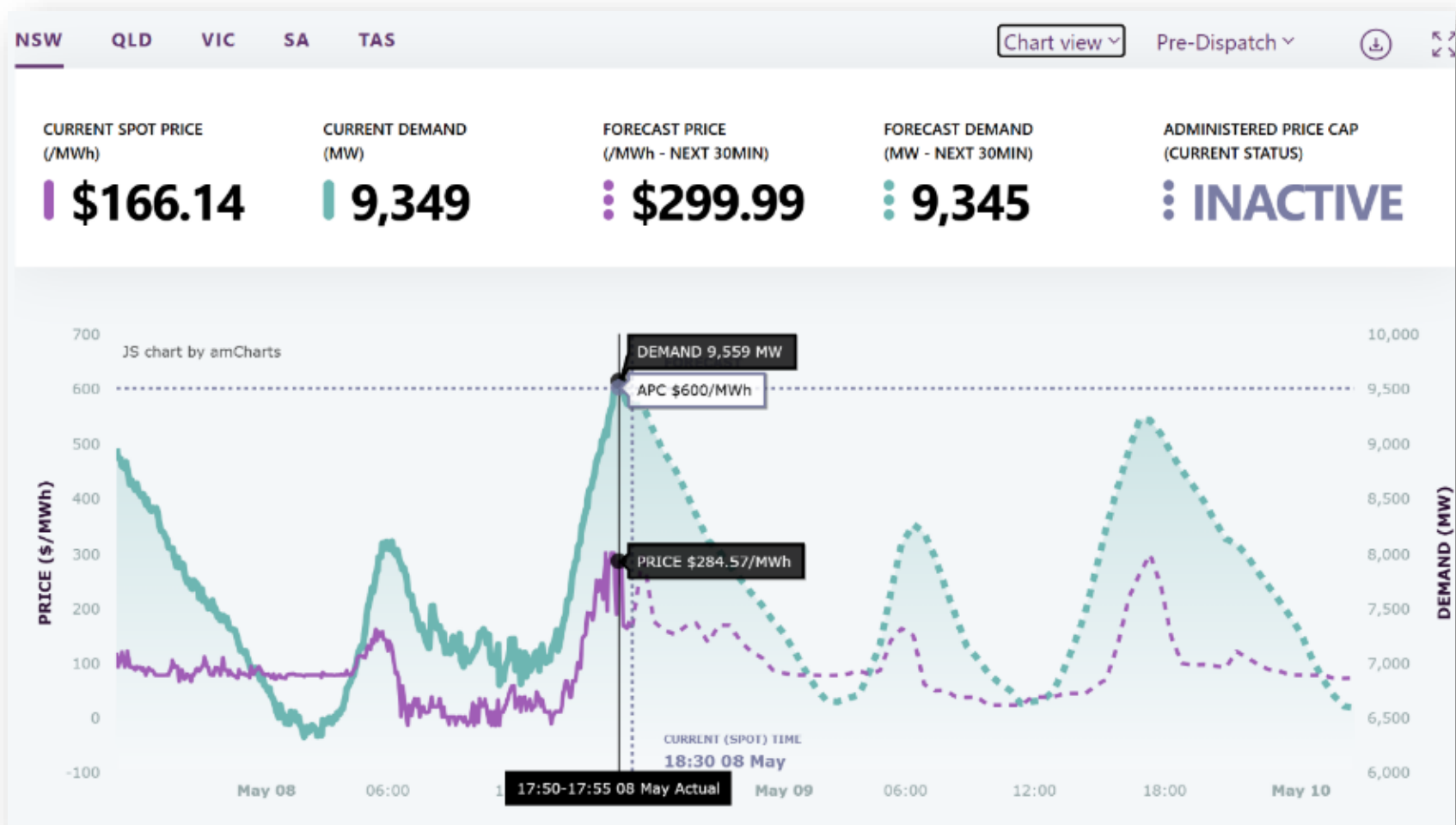
① The minimum and maximum renewable penetration rates are measured in 30 minute intervals

*Source : AEMO

*Source: Billion Watts Technologies Co., Ltd. Confidential 42

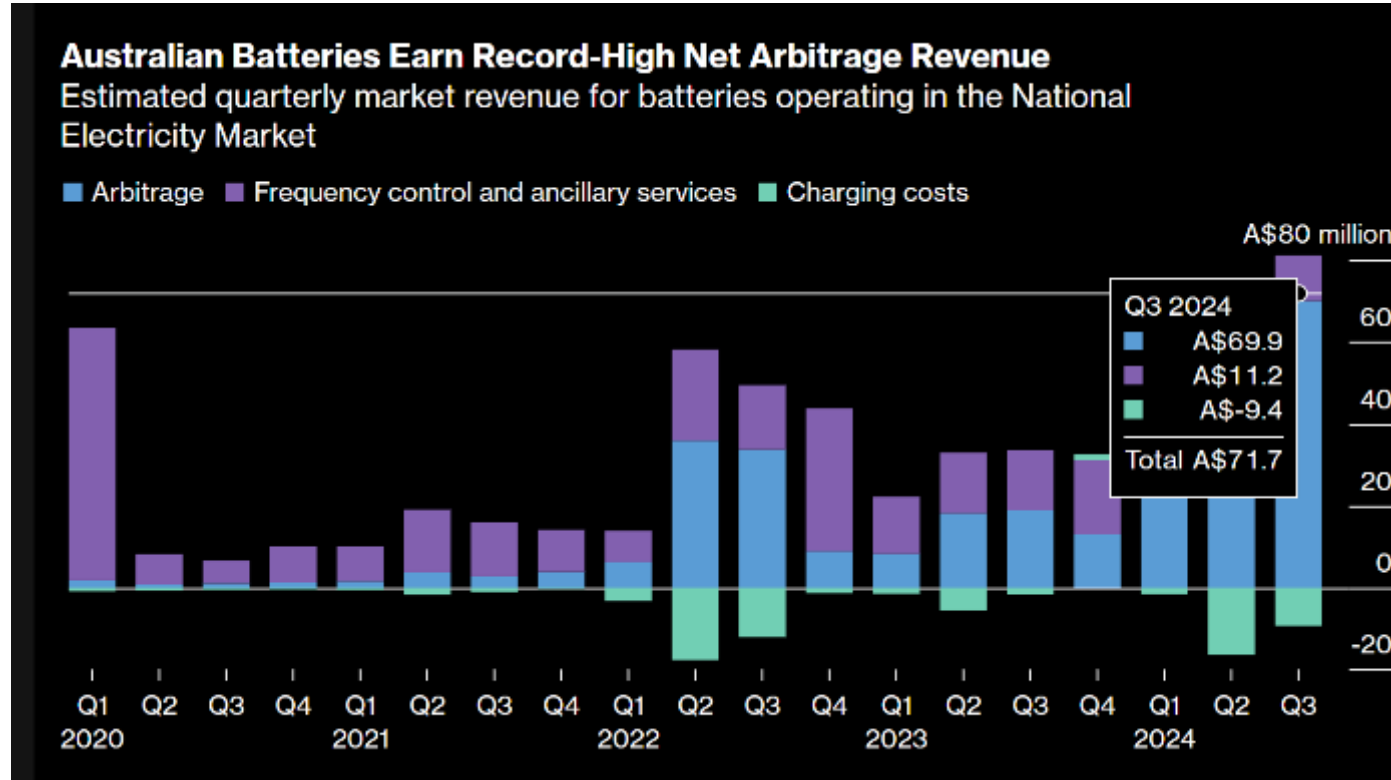
AEMO – Electricity Spot Market

The Australian Energy Market Operator (AEMO) is responsible for managing the National Electricity Market (NEM), which covers eastern and southeastern Australia. The [AEMO](#) NEM spot electricity market operates as a wholesale market where electricity prices are updated every five minutes to reflect real-time supply and demand conditions. AEMO oversees electricity dispatch, system operations, and market settlement, ensuring the security, reliability, and cost-effectiveness of electricity supply.



*Source : AEMO

Battery Arbitrage Revenue in Australia Reaches Historic High



- The growing penetration of wind and solar assets suppresses spot prices during periods of high renewable generation. Conversely, when wind and solar output declines, more expensive dispatchable generators (e.g., coal-fired power plants) ramp up production, driving prices higher. Batteries and other fast-response technologies are capitalizing on these intraday price spreads by purchasing electricity (charging) when prices are low and selling electricity (discharging) when prices are high.
- Batteries are seizing opportunities from increased electricity market volatility. Utility-scale batteries in the NEM generated approximately AUD 71.7 million in net revenue from arbitrage and FCAS (Frequency Control Ancillary Services).
- In Q3 2024, net revenue from electricity price arbitrage was estimated at AUD 60.5 million, marking a historical high (YoY +254%). FCAS (Frequency Control Ancillary Services) accounted for 15% of total revenue (AUD 11.2 million, YoY +124%).

5.8MWp Solar-Plus-Storage Demonstration Site in Victoria, Australia

Market-Oriented Solar-Plus-Storage Project: Realizing Diversified Revenue Streams through NEM and FCAS Participation

Background

This project is located in Victoria, Australia, and aligns with the local government's Victorian Renewable Energy Target (VRET) and energy storage development policies. The state has announced its goal to achieve 95% renewable energy by 2035, while promoting smart energy transformation to enhance regional renewable energy penetration and strengthen grid resilience.

Deployment

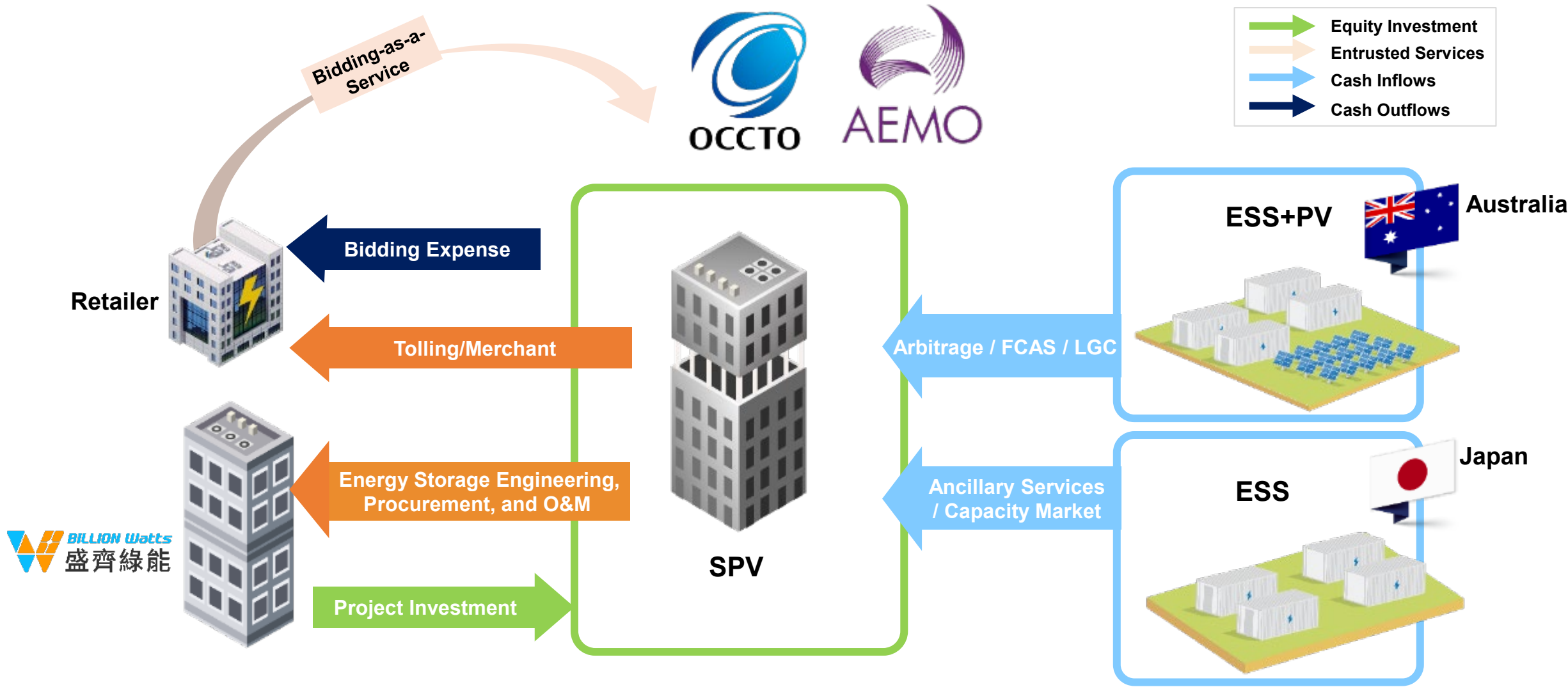
- ✓ The project deploys a 5.8MWp ground-mounted solar tracking system integrated with an 11MWh energy storage system, delivering high energy conversion efficiency and flexible dispatch capability. The system incorporates advanced forecasting models and a bidding optimizer algorithm to dynamically adjust discharge strategies based on market price fluctuations and weather conditions, thereby maximizing returns and enhancing competitiveness in the National Electricity Market (NEM).

Benefits








- ✓ In regions with high renewable energy penetration, real-time dispatching and energy storage intervention effectively enable load balancing and power supply stability, thereby enhancing the disturbance resistance of local grid networks.
- ✓ Creating Diversified Revenue Streams: The energy storage system participates in multiple market mechanisms, including the NEM spot market, wholesale solar price trading, FCAS (Frequency Control Ancillary Services), LGC (Large-scale Generation Certificate) scheme, and intraday spread arbitrage operations.



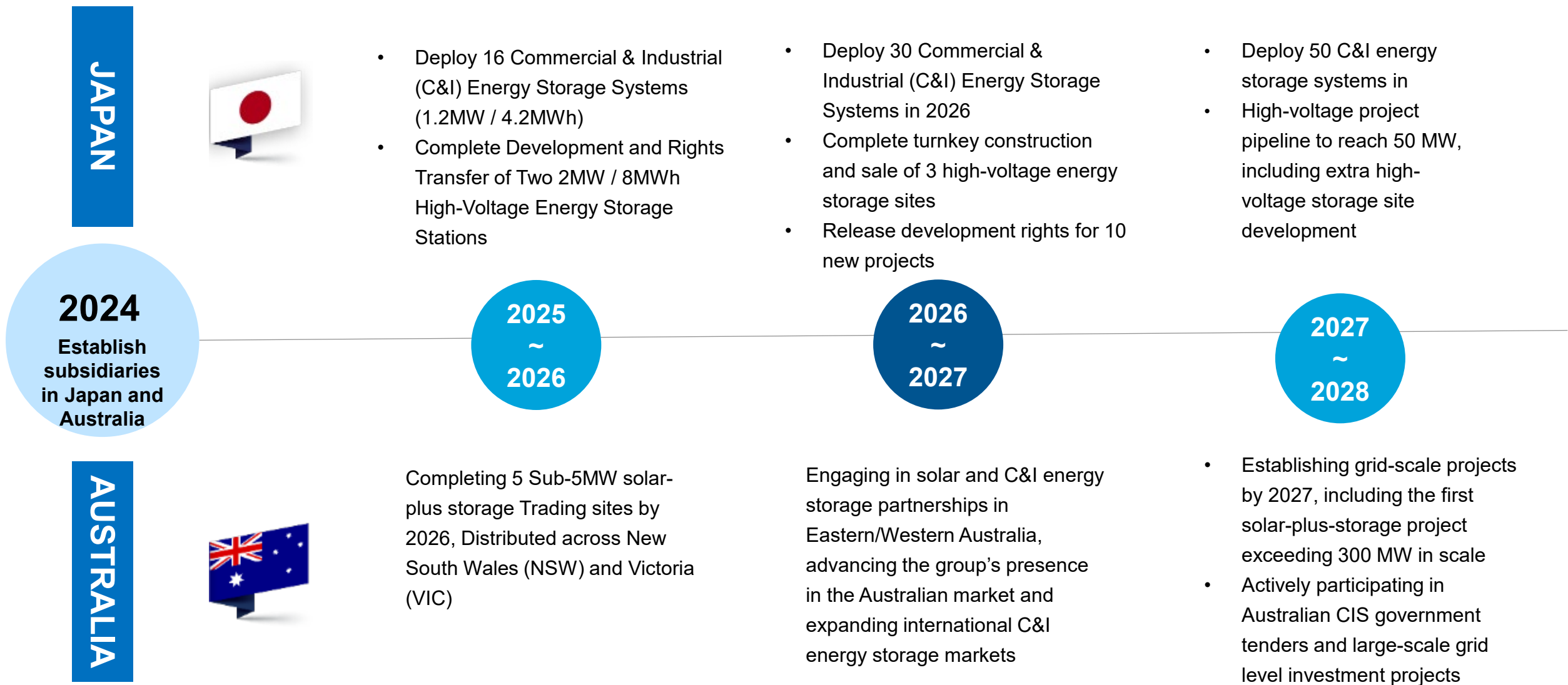
Front-of-the-Meter C&I Energy Storage – Collaboration Framework & Business Model



Overseas Collaboration Framework & Operational Structure

Region	Taiwan	Japan	Australia	Others
Target Development Capacity(MW)	Solar: 465MW+ ESS: 360.7MWh	FTM ESS: 30MWh BTM ESS: 10MWh	Solar: 22MWp ESS: 44MWh	Solar: 10MWp ESS: 10MWh
Strategic Partners	 	 	 	
Products	<ul style="list-style-type: none"> • Solar Modules • PV Inverters • Grid-Connected / Commercial & Industrial / Residential ESS • EV Chargers • EMS 	<ul style="list-style-type: none"> • Grid-Connected / Commercial & Industrial ESS 	<ul style="list-style-type: none"> • Grid-Connected / Commercial & Industrial ESS • EMS 	<ul style="list-style-type: none"> • Solar Modules • PV Inverters • Commercial & Industrial / Residential ESS • EMS
Revenue Model	<ul style="list-style-type: none"> • Equipment Sales • EPC Services • Bidding • O&M • Electricity Revenue 	<ul style="list-style-type: none"> • Joint Development Agreement (JDA) • Equipment Sales • EPC Services • O&M • Electricity Revenue 	<ul style="list-style-type: none"> • Equipment Sales • EPC Services • O&M • Electricity Revenue 	<ul style="list-style-type: none"> • Equipment Sales • EPC Services • O&M

Billion Group Overseas Three-Year Growth Plan





Billion Electric Co., Ltd.

(Ticker Symbol: 3027)

Q&A Session

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