JDENERGY

RELIABLE CLEAN POWER FOR EVERYONE

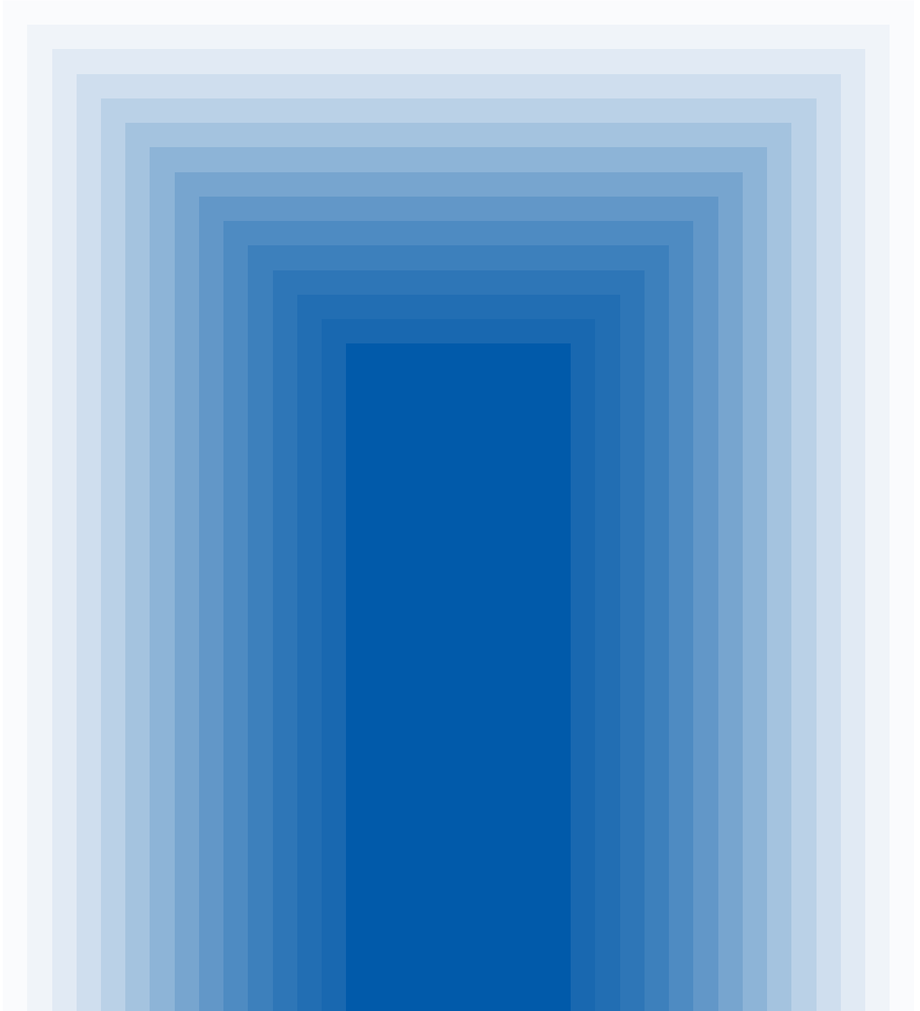
RELIABLE CLEAN POWER
FOR EVERYONE

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JDENERGY

Leader in Smart Energy Storage
Across the Value Chain

Singularity In the Origin of Time and Space

Dedicated to Solving the Imbalanced Temporal and Spatial Distribution of Clean Energy by the Energy Storage Technology

Contributing Industry-leading Energy Solutions for Sustainable Human Development

JDEnergy

Founded in 2018, Xi'an JDEnergy Co., Ltd. (JDEnergy) was established by leading experts in power electronics together with a team of experienced engineers holding master's and doctoral degrees, many with more than a decade of R&D experience. JDEnergy is among China's early pioneers of string-based battery energy storage systems and distributed energy block concept. It is also the first company globally to achieve large-scale application of distributed smart energy blocks in hundred-MWh-level energy storage projects. With the mission of "Reliable Clean Power for Everyone," JDEnergy focuses on the development and commercialization of advanced energy storage technologies.

JDEnergy is firmly committed to string-based BESS architecture, with a comprehensive portfolio spanning distributed Energy Blocks and string-based containerized solutions for utility-scale, C&I, and integrated PV-storage-charging applications. Building on its strong capabilities in utility-scale energy storage, JDEnergy has expanded into virtual power plants (VPPs) and intelligent energy trading platforms, extending its capabilities across the energy storage value chain. With a growing localized service network worldwide and consecutive recognition as a BloombergNEF Tier 1 energy storage manufacturer, JDEnergy continues to support the global energy transition with advanced storage technologies and solutions.

Mission
Reliable clean power for everyone

Vision
Being a 100 GWh Energy Storage Provider

Values
Focus, Improve, Open, Contribute

High-tech Enterprise

-Shaanxi Provincial Department of Science and Technology

National Green Factory

-Ministry of Industry and Information Technology

National Specialized, Refined, Differentiated and Innovative

Enterprise

Tier 1

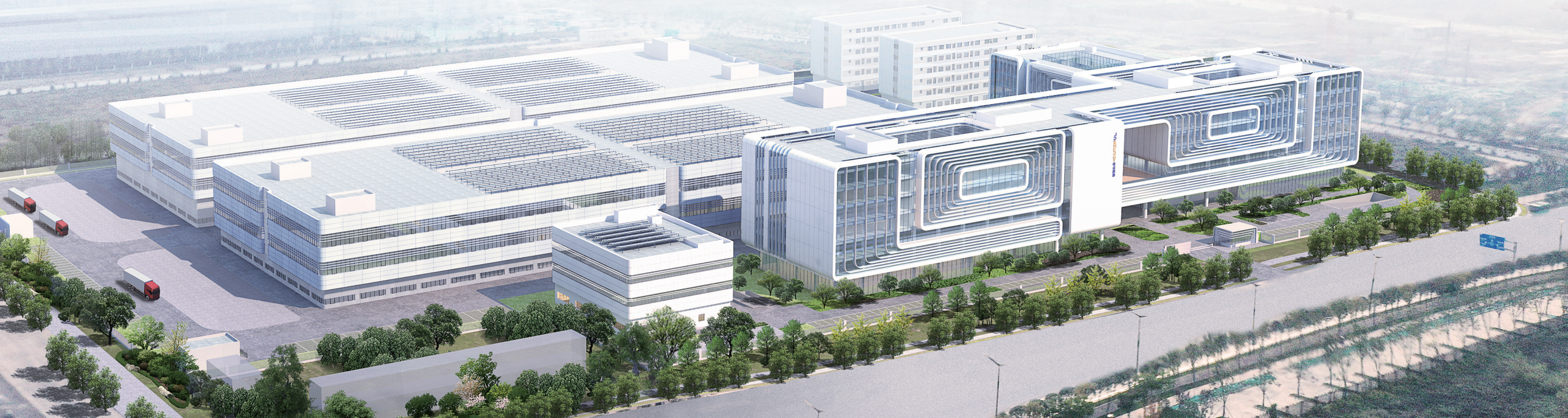
BloombergNEF
BloombergNEF Tier1 Energy Storage Manufacturer

TOP1

Ranked No.1in China's C&I Energy Storage Shipments
for Two Consecutive Years

Energy Storage Technology & Application Innovation Leader

Three-Time Winner of the International Energy Storage Innovation Competition
China Energy Storage Alliance (CNESA)



History & Development

2018-2020

Laying the Foundation

- JDEnergy Startup
- The founding team was built
- The direction of the distributed energy storage has been set
- Angel Round Financing was obtained

2021-2022

Shaping the Edge

- World's first launch of distributed eBlock smart energy storage system
- The first grid-side energy storage flagship project of eBlock was connected to the grid
- The first 100 GWh shared energy storage station project was signed
- The A round financing worth RMB 300 million was completed
- The A+ round financing was completed
- e-Mind2000 cloud platform was launched
- New products eBlock-372、eBlock-200 were released

2023-2024

Leading the Industry

- No.1 in C&I Energy Storage Shipments in 2023
- No.1 in C&I Energy Storage Shipments in 2024
- Completed B round financing worth nearly RMB 800 million
- Completed C round financing of RMB 300 Million
- New products including eBlock-418、eBlock-745、eBlock-230 were released.
- New products including eBlock-100C、eBlock-261、eBlock-836、eStation-HV35-5160 were released.
- Delivered first overseas C&I energy storage project
- Delievred the world's largest string energy storage solution
- Delievred world's largest grid-side distributed modular energy storage power station

2025-2026

Empowering the Future

- Delivered its first GWh-scale project – Inner Mongolia Dengkou Project
- Launched the e-Trader Intelligent Power Trading and Operation Platform
- Certified as a National Green Factory and National SRDI Enterprise
- Ranked among the "Top 10 Energy Storage Technology Innovation Leaders 2025"
- Released new products: Galaxy-1 and eStation-MV-6880
- Consecutively named as a BNEF Tier 1 Energy Storage Manufacturer
- Ranked among the "Top 10 Innovative Energy Storage Application Pioneers 2026"
- Ranked among the "Top 3 Pioneers in Energy Storage Soft Science Innovation 2026"
- Released new products: Galaxy-2

10GWh+
Cumulative installed capacity

2000+
C&I Sites Delivered

30000+
eBlocks Delivered

200+
Industries Served

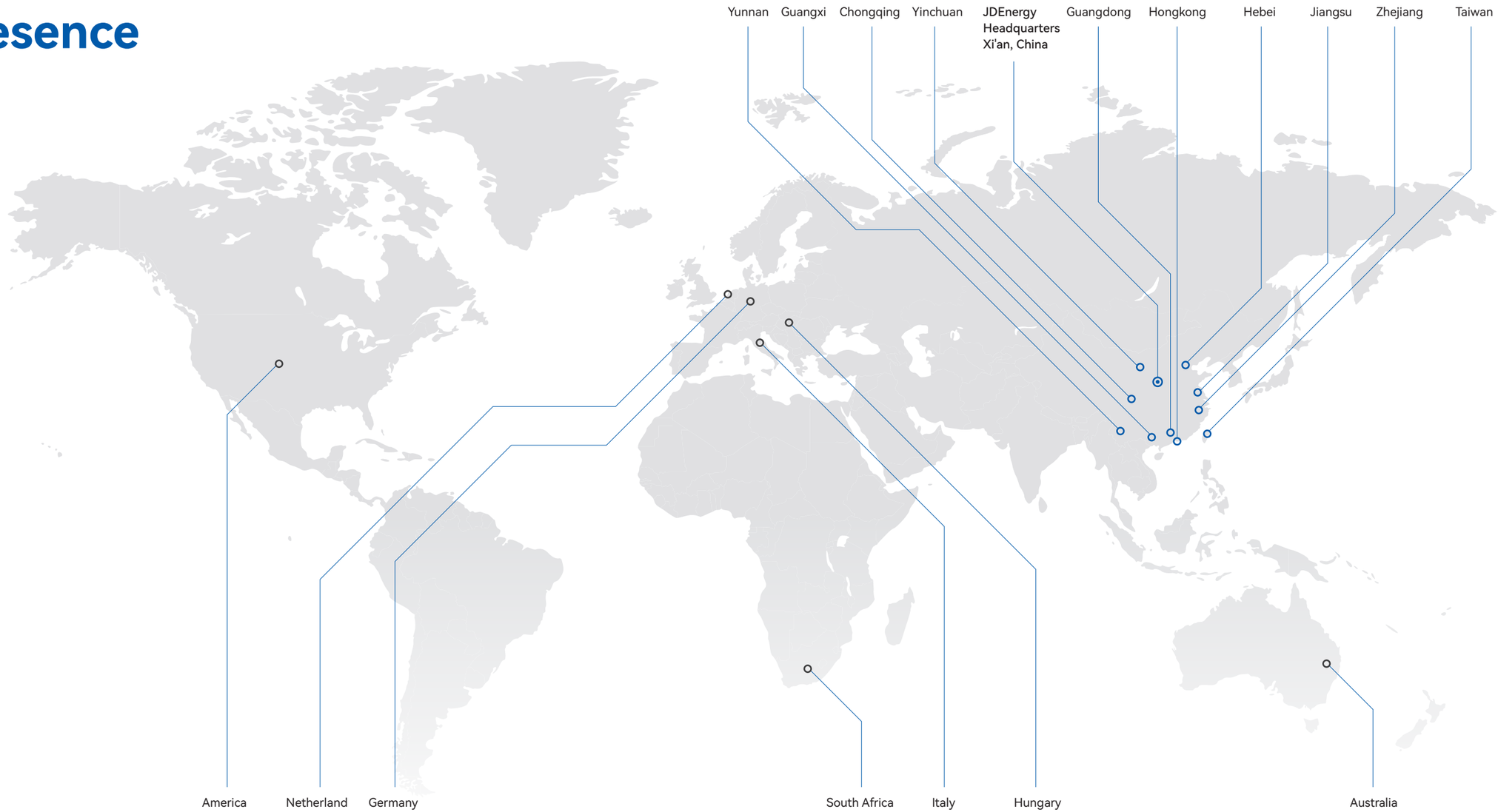
10+
Export Markets

20GWh+
Manufacturing Capacity

* Statistics updated as of August 2026.

Global Presence

- JDEnergy
- Domestic Marketing Service Center
- Overseas Marketing Service Center



Our Services

Truly safe and reliable products are the best service

Service Goal

Cloud Maintenance Real-time Online

Telephone Response within **2** Hours

7×24 On-site Service

Service Idea

Customer First, Professional and Efficient, Exceeding Expectations

Contact Information

400-133-6580

Capital Trust and Win-win Cooperation

Guided by a concept of win-win cooperation, JDEnergy fosters an open cooperation ecosystem, collaborating closely with strategic partners worldwide.

From technology R&D to market application, project investment to operational services, every link strives for deep integration to jointly explore the limitless possibilities of the energy sector. Through resource sharing and complementary advantages, JDEnergy and its partners are advancing the optimization and upgrading of the global energy structure at an unprecedented speed and efficiency, leading the industry towards a cleaner, lower-carbon future.

中科创星 CASSTAR

IDG资本 IDG Capital Partners

CD Capital 晨道资本

华金资本 000532

皖能资本

朝希资本

MEGMEET 麦格米特

高瓴资本 Hillhouse Capital

金石投资 Goldstone

水木资本 WATERE CAPITAL

科实资本 Capital For Science &Industry

建信投资 CCB Investment

金镒资本 JINYI CAPITAL

广发信德 GF XINDE INVESTMENT

峰和资本 FENGHE CAPITAL

CIMC 中集

广州产投 GZII GROUP

交银投资 BOCOM Investment

新尚资本 SHANG CAPITAL

capitech 西高投

源码资本 SOURCE CODE CAPITAL

天炜储能 TIAN WEI ENERGY STORAGE

R&D and Innovation

Energy Engine Laboratory

As a pioneer in the global energy transition, JDEnergy's Energy Engine Laboratory, established in 2019, has been at the forefront of energy storage system innovation. It has developed a physical-digital twin testing platform that deeply integrates full-stack digital simulation with physical validation. This enables an intelligent verification system covering the entire lifecycle from cell, module, system to application scenarios, providing critical support for next-generation energy storage technologies. JDEnergy's products have successfully obtained multiple authoritative domestic and international certifications, including IEC 61000, IEC 62477, IEC 62619, VDE 4110, IEC 60730, and GB/T 34120.

Seven Core Functional Modules Covered by the Laboratory

- Digital Grid and System Control Testing Zone
- Battery Testing Zone
- C&I source-side Testing Zone
- PV-storage Testing Zone
- PCS Testing Zone
- EMC Testing Zone
- Environmental Testing Zone

Certifications

Successfully obtained multiple domestic and international certifications including CCC, CE, UL, and VDE issued by authoritative bodies such as TÜV and SGS, and passed the UL 9540A thermal runaway test.

>369+
Authoritative Certifications & Test Reports

>176+
Patent Certificates

>10%
R&D Investment Ratio

Core Technology

Multi-Level Battery Validation System

An integrated testing framework covering cell, PACK, and BMS levels to ensure the overall performance of battery systems meets industry-leading standards.

Scenario-Based Energy Storage System Evaluation

Through the BLM test matrix built with eBlock, eLink, and eMind, the platform delivers comprehensive evaluations of safety and cost-effectiveness for energy storage systems in complex engineering environments.

In-Depth Power Electronics Validation

Utilizing high-precision grid simulation systems to enable full-performance testing across all operating scenarios, safeguarding efficient power conversion in energy storage systems.

Digital Twin-Based Grid Simulation

By leveraging digital twin models, the platform significantly shortens R&D cycles, reduces testing risks, and accelerates the digital transformation of energy storage system development.

384 Million (RMB)
Cumulative R&D Expenditure

180+
R&D Professionals

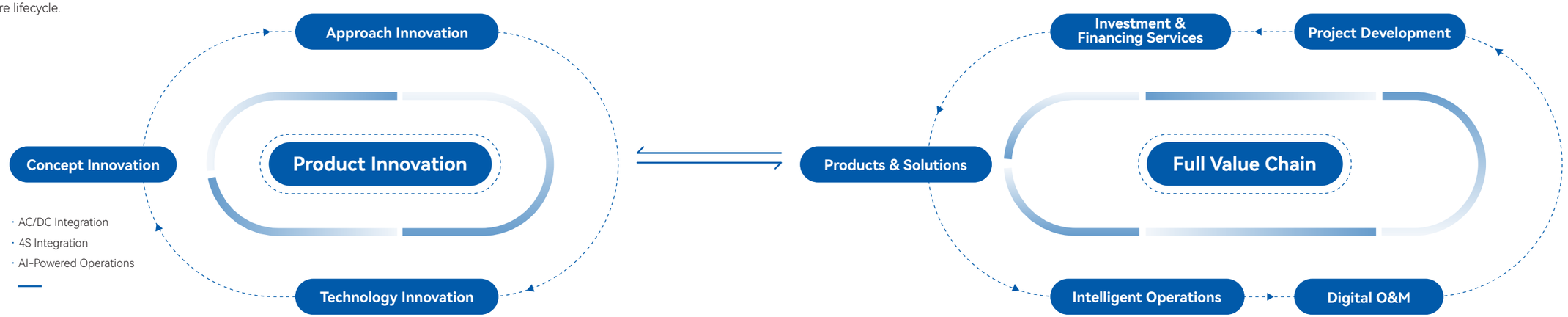
247+
Intellectual Property Rights

* Statistics updated as of August 2026.

Leader In Smart Energy Storage Across the Value Chain

Building a robust technological foundation through product innovation, we drive breakthroughs across three dimensions—vision, methodology, and technology. Leveraging end-to-end value chain services, we establish a closed-loop business ecosystem and deliver full-spectrum empowerment spanning project development to intelligent operations and maintenance. Together, these two synergistic drivers form a powerful engine for sustainable growth, maximizing customer value throughout the entire lifecycle.

- From problem-driven to technology-driven to business model-driven
- Continuous evolution and iteration in response to emerging market dynamics.
- Empowering the realization of full-lifecycle value in energy storage operations.



- AC/DC Integration
- 4S Integration
- AI-Powered Operations

- Ultimate Safety
- String-Based Grid Forming
- Intelligent Monitoring
- AI Decision Chain
- Modular Adaptation

- Precisely identify high-quality projects and efficiently match with suitable targets
- Connect projects with aligned capital partners to shorten financing cycles
- Integrate resources collaboratively to mitigate execution risks
- Provide operational solutions to secure project returns

- Market Insights & Data Analytics
- Revenue Modeling & Feasibility Analysis
- Project Opportunity Identification

- Power Trading Decision Support System
- Virtual Power Plant (VPP) Operations Management
- Intelligent Trading Assistant
- Agent Trading Services

- Continuous Intelligent Monitoring & Control
- Multi-agent System Empowerment
- Standardized “5S” Service Framework

Product Innovation

Innovative Product Philosophy

Guided by a product-centric, system-oriented, and value-driven approach, we transform engineering challenges into standardized product solutions to optimize the entire energy storage value chain. Centered on users' requirements for safety and economic performance, we have established an integrated BCS system architecture. By integrating operations and maintenance (O&M) with operational management, we enable asset value creation to evolve from cost optimization to value maximization.

Uphold Core Values, Forge New Frontiers

AC/DC Integration

The plug-and-play smart eBlock significantly reduces installation and O&M costs while accelerating market adoption.

4S Integration

A four-dimensional integrated technology foundation that empowers energy storage stations with enhanced safety, improved efficiency, grid-friendly operation, and intelligent advancement.

AI-Powered Operations

Full-lifecycle operational empowerment that helps build long-term value in energy storage assets.

Product Mindset

Productizing engineering challenges to achieve optimal solutions across manufacturing, cost, quality, and O&M for energy storage systems.

System Mindset

Focusing on the core priorities of safety and economics in energy storage, defining the BCS system architecture from user needs.

Value Mindset

Achieving the leap from “lowest cost per kWh” to “highest value per kWh” through integrated O&M and operations.

Product Roadmap Innovation

Driven by market dynamics and guided by a value-centric approach, we take the challenge of high electricity costs for commercial and industrial users as our starting point. We pioneer the “4S Integration” philosophy and further extend our product strengths into comprehensive value-chain service capabilities, ensuring value realization across the entire lifecycle of energy storage assets.

Technology Innovation

Pioneering 3S Control Protection Integration, we combine the BMS, PCS, and EMS within a single standardized cabinet architecture. This innovative approach significantly enhances control precision and response speed compared with traditional solutions, effectively eliminating blind spots in system control and protection. Designed around real-world customer requirements, it delivers the optimal balance between safety and economic value, setting a new benchmark for energy storage system performance.

System Design Concept

Based on the "Device–Connectivity–Network" system design concept, JDEnergy has structured its architecture into distinct layers:

Device Layer, Connectivity Layer, and Data Management Layer.

The core products encompass the eBlock, eLink, and eMind. This solution facilitates a modular, efficient, and secure design that scales from 100-grade small-scale storage units of kWh to large-scale energy storage stations of GWh, addressing common industry challenges such as low system security, high parallel capacity loss rates, and short system lifespan in traditional centralized storage solutions. It defines the new standard for energy storage system integration.

eBlock

The Device Layer-eBlock

- High-longevity Battery Cells
- PCS
- BMS
- Active Safety System
- Thermal Management System

eLink

The Connectivity Layer-eLink

- Energy Flow Transfer
- Information Flow Transfer
- Parallel Cluster Control

eMind

The data management layer-eMind

- Operation Scheduling
- Risk Management Warning
- Web-based Monitoring and Management
- Mobile Application
- Data Analysis
- Cloud Data Storage

Safe and Stable

Zonal Safety Isolation

Independent Protection for Each Cluster
Safety Isolation Between Clusters

Dual-Layer Safety Barrier

From the cell level to the enclosure level and the entire system, a multi-dimensional safety protection architecture is established to minimize fire risks and ensure comprehensive system safety.

- Cell-Level Protection:
  Nano-aerogel thermal insulation barriers effectively suppress thermal propagation between cells.
- Enclosure-Level Protection:
  An integrated flame-retardant enclosure structure provides up to 3 hours of fire protection under extreme conditions.

Unified AC/DC Fault Protection

Consistent Hardware Architecture, System-Wide Synchronized Awareness

Integrated Protection Setting Coordination

One Brain, One Logic, One Coordinated Protection Setting Scheme, One Unified Response
Through fully integrated protection coordination, the system delivers seamless, end-to-end protection from individual battery cells to the power grid. This architecture eliminates the critical safety challenges of conventional solutions, including fragmented AC/DC protection, mismatched protection settings, and unsynchronized protective actions, achieving comprehensive protection coverage with no blind spots throughout the entire energy storage system.

AI Health Management

Edge-cloud synergy with real-time monitoring + big data analytics

Cell

Cell-level monitoring with millisecond-level diagnostics, precisely capturing voltage and temperature changes in every cell

Edge Computing Hub

- Real-time multi-parameter fusion analysis
- Intelligent joint early warning & rapid response

eMind Safety Center

- Cell outlier detection and degradation analysis
- Unified AC/DC fault protection

Cost-Effective & High-Efficiency

Conversion Efficiency Improvement

System AC-side conversion efficiency ≥88%

Vector Control Algorithm

Vector Control Algorithm Optimized for Minimum Switching Losses

→ Up to **0.5%** Higher Efficiency

Optimized Power and Voltage Matching

Optimized design for PCS and battery string voltage matching

→ Up to **30%** Reduction in PCS Losses

Optimized Thermal Management Design

Independent Liquid Cooling Units
Integrated One-Piece Liquid Cooling Piping

→ Up to **30%** Reduction in Auxiliary Power Consumption

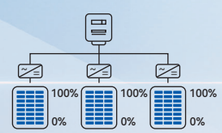
String-Based Management with Zero Circulating Current

Zero parallel capacity loss over the full lifecycle; 100% charge/discharge depth

More than **10%** Increase in Capacity

String-Based

Slow degradation,
Superior efficiency,
Extended service life



→ **100%** Capacity

Centralized Architecture

Underutilized Charging Capacity
Incomplete Discharge Utilization
High Circulating Currents



→ **<90%** Capacity

Grid Friendly

Advanced Multi-Core Control Architecture and Grid-Forming Capability Built on a multi-core control platform integrating ARM + DSP + FPGA, the system leverages a patented clustered parallel control algorithm with high-voltage-side real-time power feedback. It supports stable operation in extremely weak grids with SCR as low as 1.05, enabling robust multi-unit grid-forming parallel operation and coordinated black-start capability. With fully in-house developed 3S control-protection integration technology, the system achieves a sub-20 ms power response at the hundred-megawatt scale—up to 10× faster than conventional architectures—significantly enhancing dynamic performance and grid support capability. It is fully compatible with grid ancillary services, including frequency regulation, ramp rate control, and spinning reserve.



Operation in weak network

In weak network conditions, JD's energy storage system can continue to operate stably, ensuring that even when the grid's SCR is less than 1.2, the energy storage station still provides reliable power supply to users.

Primary and secondary frequency control support

The system supports both primary and secondary frequency control, allowing it to quickly respond to grid frequency changes by automatically adjusting power output, thereby helping to stabilize the grid frequency.

High-speed energy scheduling

JDEnergy could efficiently dispatch active and reactive power output from the energy storage system, enabling rapid switching between charging and discharging modes.

Fault Voltage Ride Through Capability

The design of the energy storage system incorporates robust fault voltage ride through capability, enabling storage devices of JDEnergy to continue operating stably and actively recover the grid in the event of voltage sag caused by grid faults.

Inertia Control

Energy storage system of JDEnergy boasts powerful inertia support capability to rapidly respond to grid frequency disturbances by providing prompt virtual inertia services, so as to ensure the operation security of the grid.

Source-Grid-Load Responsiveness

The energy storage system enables millisecond-level bidirectional power regulation, precisely responding to fluctuations across the generation, grid, and load sides. This ensures real-time balance between power supply and demand, maintaining stable and reliable grid operation.

Flexible Deployment

Based on standardized, high energy-density battery modules with a compact design, the system minimizes footprint while supporting flexible capacity expansion through modular cabinet configuration. It enables precise matching of project requirements, avoiding overinvestment at the initial stage. The system supports automatic networking, enabling rapid deployment and commissioning.

On-Demand Modular Configuration

Built on a string-based modular architecture, the system can be freely scaled and reconfigured to adapt to diverse application scenarios, including utility-scale energy storage stations and C&I energy storage projects, meeting flexible capacity planning requirements.

Simplified Installation

An integrated AC/DC system design streamlines on-site construction, significantly shortens project delivery cycles, and reduces installation costs.

Rapid Interconnection

Powered by the proprietary JDEnergy eLink interconnection technology, the system eliminates complex wiring requirements, enabling simple and highly efficient on-site connectivity.

Independent Control

Each unit features independent control architecture, ensuring non-interference between units. This enhances operational safety, simplifies maintenance, and improves overall system reliability and stability.

Product Introduction



eBlock

eBlock 100C

Photovoltaics & Energy Storage Integration for Greener Future

The eBlock-100C integrates a PV-storage hybrid converter with battery packs and cabinet, fully compliant with IEC standards. The all-in-one system integrates PV MPPT, battery DC/DC conversion, and bidirectional DC/AC conversion, supporting both grid-connected and off-grid operation modes.

It provides multiple EMS operating strategies, including self-consumption, economic optimization, and backup power supply modes, enabling flexible energy management.

The system is suitable for a wide range of applications, including shopping malls, office buildings, industrial facilities, distributed PV systems, distribution substations with energy storage, zero-carbon parks, microgrids, heat pump systems, and diesel generator hybrid systems.

SYSTEM DATA	
Cell Type	LFP 3.2V/314Ah
Configuration	128S1P
Nameplate Capacity	128kWh
Maximum System Efficiency	≥86%
Depth of Discharge	100% DOD
Voltage Frequency	50/60HZ
Communication Interface	LAN
Number of Cycles	≥7000 Cycles
System Protection Level	IP55（battery cabinet）
Operating Temperature	-35℃~55℃（45℃-55℃ derating）
Operating Humidity	0%RH ~ 95%RH （No condensation）
Noise	≤75dB
Altitude	≤2000m
Thermal Management Methods	Liquid cooling (battery+PCS)
Certification	IEC 62619, IEC 62477, IEC 61000 IEC 60730, VDE 4105, CEI 0-21 EN 50549-1, UN38.3

GRID DATA	
Rated Voltage	400V（-15%~10%）3L/N/PE
Rated Power	50kw
Rated Current	72.5A
Rated Frequency	50Hz
Maximum Input Power	100kVA
Maximum Input Current	144A

BACKUP DATA	
Rate Output Power	50kVA
Maximum Output Power	55kVA/long-term；60kVA/1min
Rated Output Voltage	400V（-15%~10%）3L/N/PE
Rated Frequency	50Hz

PV DATA	
Maximum Photovoltaic Input Power	100kWp
Rated DC Input Voltage	720V
MPPT Voltage Range	150-900V

MECHANICAL PARAMETER			
Dimensions (L*W*H)	1000mm*1000mm*2270mm	Total Weight	≈1600Kg

eBlock

eBlock 250

Next-gen Energy Engine for Industry and Commerce

Adopting a modular design, the system highly integrates battery packs, battery management system (BMS), AC/DC conversion, thermal management, fire protection, and intelligent control systems, delivering an all-in-one energy storage solution.

The system features high energy density, compact footprint, high system efficiency, and multi-layer safety protection. It requires no foundation excavation, significantly reducing construction costs, while enabling rapid deployment and stable operation.

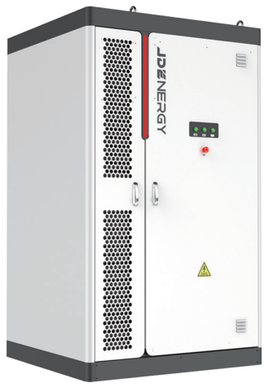
It is widely applicable to commercial and industrial peak shaving and valley filling, virtual power plants (VPPs), backup power supply, and three-phase imbalance mitigation.



SYSTEM DATA	
Cell Type	LFP 3.2V/314Ah
Battery grouping method	260S1P
Battery capacity	250kWh
Battery voltage range	728~936V
AC rated power	125kW
AC Rated Frequency	50/60Hz
Rated Voltage Range	400V(-15%~10%)3L/N/PE
Maximum system efficiency	≥90%
Depth Of Discharge	100% DOD
communication interface	LAN
AC current distortion rate	<3%

DC component	< 0.5%Ipn
Number of cycles	≥7000 Cycles
System protection level	IP55(Battery cabin)
Operating Temperature	-35℃~55℃（45℃-55℃ derating）
Operating humidity	0%RH ~ 95%RH （No condensation）
Noise	< 80db
Altitude	≤2000m
Thermal management methods	Liquid cooling (battery)
Certification	CQC、LVRT/HVRT, IEC 62477, IEC 61000, VDE 4105, CEI 0-16, CEI 0-21 EN 50549-1,EN 50549-2、UN38.3

MECHANICAL PARAMETER	
Dimensions (L*W*H)	1000mm*1350mm*2400mm
Total Weight	≈2400Kg
Installation mode	install on the ground



eBlock

eBlock 418A

Potential for Greatness Excellence in Storage

Adopting a modular unit design with 690V AC output, the system supports direct AC-side parallel expansion, enabling a scalable architecture from hundreds of kWh energy storage units to GWh-scale energy storage power plants, ensuring high efficiency and safety.

Each energy block features a consistent external design and unified visual identity. The modular architecture reduces system-level risk caused by individual module failures while enabling flexible capacity configuration.

This product is widely applied in utility-scale generation-grid-side power plants, large-scale commercial & industrial power stations, and grid-forming energy storage systems.

SYSTEM DATA	
Cell Type	LFP 3.2V/314Ah
Battery grouping method	416S1P
Battery capacity	418kWh
Battery voltage range	1164.8~1497.6V
AC rated power	209kW（215kW Derating）
Maximum system efficiency	≥90%
Depth Of Discharge	100% DOD
communication interface	LAN
AC current distortion rate	<3%
DC component	< 0.5%Ipn
Number of cycles	≥7000 Cycles
System protection level	IP55
Working temperature	-35℃~55℃ (45℃-55℃ derating)
Working humidity	0%RH ~ 95%RH (No condensation)
Noise	< 80dB
Altitude	≤2000m
Thermal management methods	Liquid cooling (battery)
Certification	IEC 62619 IEC63056、IEC 62477 IEC 61000 EN 50549 VDE 4110/、4120 CEI 0-16 UN 38.3

MECHANICAL PARAMETER	
Dimensions (L*W*H)	1400mm*1300mm*2350mm
Total Weight	≈3800Kg
Installation mode	modular steel structure base

PCS DATA PCS/PCS-2000G2	
System rated efficiency	≥98%
Charging and discharging switching time	< 100ms
Communication interface	LAN
Protection grade	IP65
Cooling method	Air cooling
Operation temperature	-40℃~60℃
Relative humidity	0~95%RH
Max. working altitude	≤2000m
Noise	< 80dB
Size (L * W * H)	630*1050*250
Weight	110kg
Certification	IEC 62477 IEC 61000 EN 50549 VDE 4110/ 4120 CEI 0-16

DC SIDE PARAMETERS	
DC voltage range	1026~1500V
DC rated voltage	1263V
Max. DC current	209.5A
Max. DC power	258kW

AC SIDE PARAMETERS	
AC rated power	215kW
AC rated current	180A
Rated grid voltage	690V
LVRT/HVRT	Yes
Grid Frequency	50Hz

Liquid-Cooled String PCS MV Station

eStation MV-6880

Liquid-cooled String PCS MV Station

The liquid-cooled string PCS–transformer integrated system features a flexible and scalable architecture, supporting expansion in 430 kVA increments with a maximum capacity of 6.88 MVA.

The system can be flexibly configured with 2–4 hour DC-side energy storage systems to accommodate a wide range of operational requirements. Additional battery strings can be seamlessly integrated into existing installations, while maintaining compatibility with battery cells of different capacities within the supported voltage range.

Designed for applications such as EV charging hubs, industrial facilities, and commercial buildings, the solution provides UPS functionality, uninterrupted power supply, load management, and virtual power plant (VPP) integration, delivering enhanced flexibility, reliability, and energy optimization.



PCS DC PARAMETERS	
Max.DC Voltage	1500V
Number of DC Input	16
Max.DC Current	430A*16
Battery Voltage Range	1000~1500V
DC Voltage Ripple	< 2%
DC Current Ripple	< 3%

PCS AC PARAMETERS	
AC Output Power	430kVA*16
PCS AC Output Current	360A*16
PCS AC Voltage Range	621~759V(Adjustable)
Nominal Grid Frequency	50/60Hz
Harmonic(THDi)	< 3%(100% load)
Power Factor	0.8lagging ~ 0.8leading
Connection Phases	3P3W+PE

ENVIRONMENT	
Max. altitude	2000m
Operating Temperature	-30℃~ 60℃
Relative Humidity	0~ 95%(no condensing)

TRANSFORMER	
Rated Capacity	7100kVA
Isolation Mode	Oil-Immersed Transformer
Transformer Vector	Dy11y11
Transformer Oil	Mineral oil/FR3
Protection Level	IP54
Cooling Method	ONAN
Transformer Turns Ratio	10~35/0.69/0.69kV
Transformer Efficiency	Tier1/Tier2/ > 99%@Pn
Anti-corrosion Grade	C5/C4/C3

SWITCHGEAR	
DC voltage range	1026~1500V
DC rated voltage	1263V
Max. DC current	209.5A
Max. DC power	258kW

MECHANICAL PARAMETERS	
Dimensions （L*W*H）	12,192mm*2,438mm*2,896mm
Total Weight	≈ 39000kg



String Energy Storage Prefabricated Cabin

Galaxy 1

String Energy Storage Prefabricated Cabin Featuring AC-DC Integration

Featuring an "All-in-One" design concept, the Galaxy series integrates 314Ah LFP battery cells, BMS, string PCS, fire suppression system, thermal management system, power distribution, and communication systems into a standard 20-foot container.

Available in both 2-hour and 4-hour configurations, the Galaxy series is designed to support a wide range of applications, including commercial and industrial (C&I) medium-voltage projects as well as utility-scale generation, grid, and renewable energy integration scenarios. By delivering a fully integrated and factory-tested solution, it significantly reduces on-site installation workload while simplifying transportation, deployment, and commissioning.

SYSTEM DATA	
Operating Temperature	-30℃~55℃
Operating Humidity	0% ~ 95% RH (non-condensing)
Altitude	≤2000m
Thermal Management Methods	Liquid cooling (Battery+PCS)
Fire Suppression System	Thermal Runaway
System Protection Level	Mitigation System
Communication Protocol	IP55（Battery compartment）
Certifications & Standards	IEC 104/IEC 61850/ Modbus TCP

DC SIDE PARAMETERS	
Cell Type	LFP 3.2V/314Ah
Battery capacity	5016kWh
DC rated voltage	1331.2V
DC voltage range	1164.8V~1497.6V
Configuration	1P416S*12(2h) / 2P416S*6(4h)
Charge-Discharge Rate	0.5P(2h) / 0.25P(4h)
Number of Cycles	≥10000 Cycles

PCS DATA	
PCS Technology	SiC
PCS Power Rating	215kW*2
DC Input Voltage	1000V~1500V
Grid-Forming Capability	Enabled
Black Start Function	Enabled

AC SIDE PARAMETERS	
Rated Power	2508kW (2h) / 1254kW (4h)
Rated Grid Voltage	690VAC (-15%~10%)
Grid Frequency	50/60Hz
Current THD	< 3%
Power Factor	> 0.99（Rated power）
Overload Capability	110% for 10 min, 120% for 1 min
Dimensions (L*W*H)	6058*2438*2896
Total Weight	≈43000kg
Installation Mode	Hoisting

String Energy Storage Prefabricated Cabin

Galaxy 2

Smart Integration Core Innovation Upgraded String-type Bess Container

Featuring an "All-in-One" design concept, the Galaxy series integrates 587Ah LFP battery cells, BMS, string PCS, fire suppression system, thermal management system, power distribution, and communication systems into a standard 20-foot container.

Available in both 2-hour and 4-hour configurations, the Galaxy series is designed to support a wide range of applications, including commercial and industrial (C&I) medium-voltage projects as well as utility-scale generation, grid, and renewable energy integration scenarios. By delivering a fully integrated and factory-tested solution, it significantly reduces on-site installation workload while simplifying transportation, deployment, and commissioning.



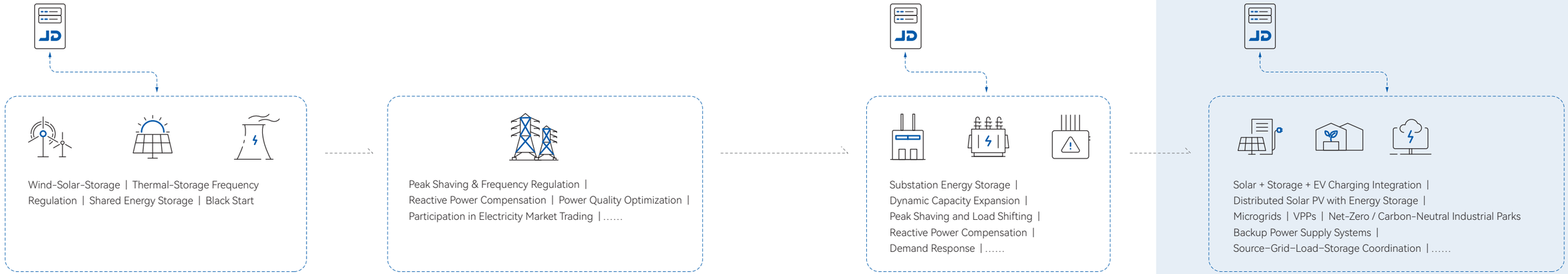
SYSTEM DATA	
Operating Temperature	-30℃~55℃
Operating Humidity	0% ~ 95% RH (non-condensing)
Altitude	≤2000m
Thermal Management Methods	Liquid cooling (Battery+PCS)
Fire Suppression System	Thermal Runaway Mitigation System
System Protection Level	IP55（Battery compartment）
Communication Protocol	IEC 104/IEC 61850/ Modbus TCP

DC SIDE PARAMETERS	
Cell Type	LFP 3.2V/575Ah
Battery capacity	6123kWh
DC rated voltage	1331.2V
DC voltage range	1164.8V~1497.6V
Configuration	1P416S*8
Charge-Discharge Rate	0.5P(2h) / 0.25P(4h)
Number of Cycles	≥10000 Cycles

PCS DATA	
PCS Technology	SiC
PCS Power Rating	430kW*2(2h) / 215kW*2(4h)
DC Input Voltage	1000V~1500V
Grid-Forming Capability	Enabled
Black Start Function	Enabled

AC SIDE PARAMETERS	
Rated Power	3062kW (2h) / 1531kW (4h)
Rated Grid Voltage	690VAC (-15%~10%)
Grid Frequency	50/60Hz
Current THD	< 3%
Power Factor	> 0.99（Rated power）
Overload Capability	110% for 10 min, 120% for 1 min
Dimensions (L*W*H)	6058*2438*3400(2h) / 3100(4h)
Total Weight	≈49000kg(2h) / 48000kg(4h)
Installation Mode	Hoisting

All Scenario Solution



01

Source Side Solution

The energy storage system provides energy storage and output management functions on the source side, optimizing the power generation output curve, reducing the wind and solar power curtailment of new energy sources, increasing the proportion of renewable energy generation, and simultaneously offering system inertia control and peak shaving/frequency regulation functions, optimizing the energy structure.

Customer Value

- Increase Renewable Energy Curtailment Absorption
- Reduce Wind and Solar Curtailment Losses
- Enhance Ancillary Service Revenue
- Improve Power Plant Operational Stability

02

Grid Side Solution

The energy storage system provides smart load management for the grid, adjusting peak shaving and frequency regulation based on the grid load conditions, while ensuring stable operation of transmission and distribution equipment, accommodating more renewable energy, and providing robust support for the transmission of new power systems.

Customer Value

- Deferral or Replacement of Traditional Grid Expansion Investments
- Improved Power Supply Reliability
- Enhanced Power Quality
- Increased Distribution Network Operational Efficiency

03

User Side Solutions

The energy storage system provides highly efficient energy management services tailored for industrial, commercial, and residential users. By peak shaving and valley filling, responding to demand-side fluctuations, and managing overall energy demand, it enables substantial cost savings across the entire electricity consumption cycle. Additionally, its versatility extends to supporting innovative applications like backup power for communication infrastructure, integrated photovoltaic-storage-charge systems, and virtual power plants, thereby bolstering power reliability and facilitating the rapid evolution towards a more advanced and sustainable power grid.

Customer Value

- Reduce Overall Energy Cost
- Improve Power Supply Reliability and Resilience
- Enhance Energy Operational Efficiency
- Support Green and Low-Carbon Transition

Advantages of source-grid side solutions

- Support grid stability control strategies such as primary and secondary frequency regulation, high and low voltage ride-through, AGC/AVC scheduling, and inertia control.
- The battery system rapidly responds to grid frequency regulation commands with a response time of less than 50ms.
- Customized comprehensive energy solutions tailored to scenarios, fully addressing the demands of customers on source-grid side.

Advantages of user-side solutions

- Built-in diversified energy storage system applications, including peak shaving and valley filling, demand control, and others.
- Cloud-based AI intelligent control, multi-energy complementarity, comprehensively reducing customer electricity costs.
- With the support of eMind, it supports remote monitoring via APP.

eMind-Trader

Intelligent Power Trading & Operations Solution

e-Trader

Leveraging cutting-edge AI technologies to bridge the gap between the physical and digital worlds, enabling the evolution from human-assisted decision-making to fully autonomous trading and operations.

Core:

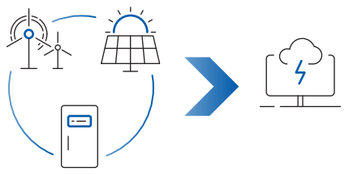
Deep Energy Storage Expertise × Profound Electricity Market Insights × World-Class AI Capabilities

Information & Infrastructure

Market Trends
Policy Information
Data Simulation
Meteorological Analysis

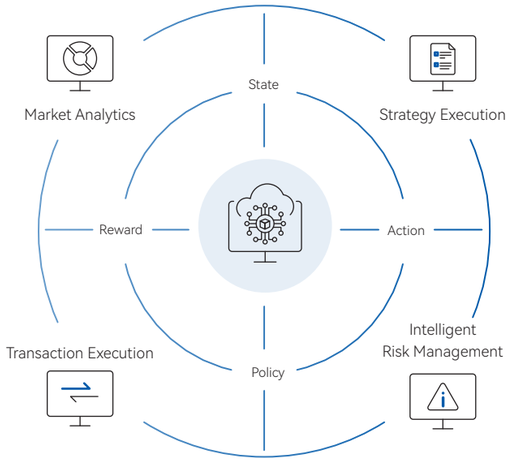
Multi-Dimensional Data Hub

Multi-dimensional Data Hub: millisecond-level data aggregation & cleansing to eliminate data silos.



Accurately model physical power system constraints and create a one-to-one digital representation of the electricity market.

Algorithms & Architecture



MDP Reinforcement Learning for Autonomous Decision-Making

Applications & Value

Thermal Generation
Storage
Wind & Solar
Retail Electricity

Price Forecasting → Strategy Development → Transaction Bidding → Automated Monitoring → Profit Review & Analysis

More Accurate

Powered by a comprehensive digital twin, eliminating blind spots in decision-making.

Faster Response

Automatic machine response captures market opportunities ahead of competitors.

More Stable

System-level quantitative risk control minimizes operational and trading risks.

Better Profitability

Millions of AI-powered simulations optimize strategies to maximize portfolio returns.

eMind-Gemini

Proactive Longevity-oriented O&M Solution

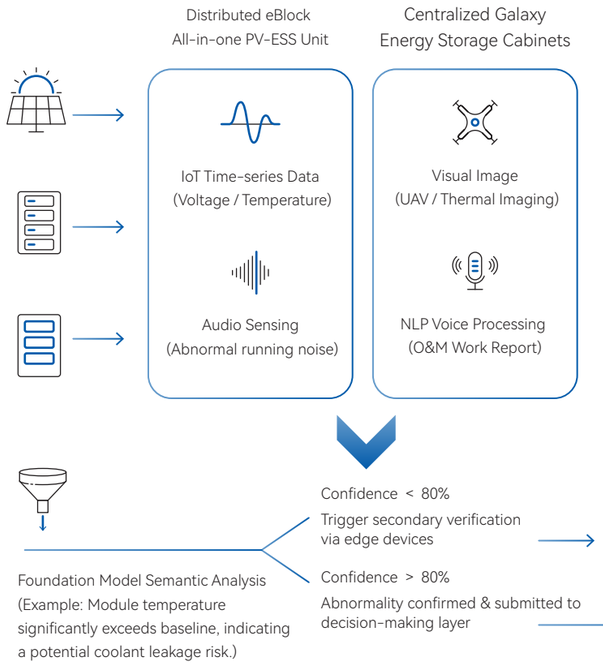
e-Gemini

Replace reactive emergency repairs with proactive preventive maintenance to establish an intent-driven intelligent operations and maintenance ecosystem.

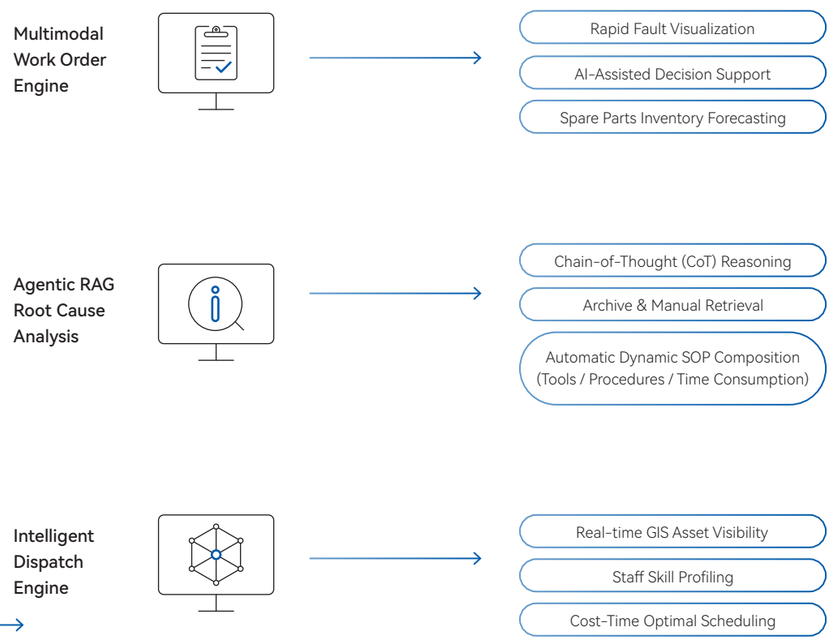
Core:

Deep ESS Expertise × Multi-modal LLM Insights × Premium O&M Framework Competence

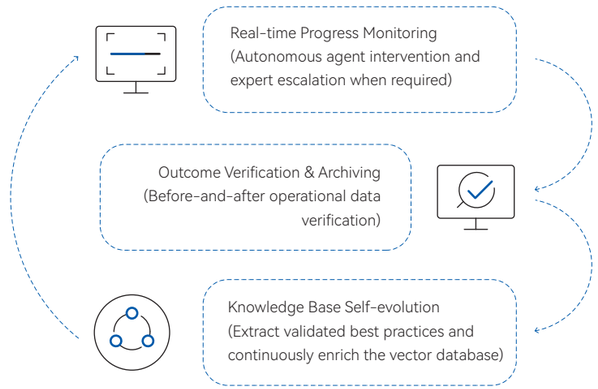
Multi-dimensional Perception & Intent Recognition



Autonomous Diagnosis & Intelligent Dispatch



Closed-loop Feedback & Self-evolution



80%

Increase in Inspection Efficiency
Eliminate manual blind inspections and accelerate root-cause identification

100%

Fault Closure Rate
End-to-end tracking and verification ensure complete elimination of hidden risks

Case Reference

Grid-side

≥7GWh
Total Installed Capacity

2GWh
Largest Single Project Capacity



Inner Mongolia Dengkou 500MW/2000MWh
Energy Storage Project



Ningxia Hanjun 150MW/600MWh
Energy Storage Project



CNNC Lin Xiang 200MW/400MWh
Energy Storage Power Staion



Ningxia Huayan Substation 200MW/400MWh
Energy Storage Power Station



Niushoushan 200MW/400MWh
Energy Storage Power Station Project



Guangxi Guigang 144MW/288MWh
Energy Storage Station Project



Dongying Jinhui Independent Shared
100MW/200MWh Energy Storage Project



Zhendong Electrochemical 100MW/200MWh
Energy Storage Project



Hungary MVM Utility-scale 31MW/75MWh
Energy Storage Project



Hungary MVM Utility-scale 11MW/22MWh
Energy Storage Project

Case Reference

User-side

≥3GWh
Total Installed Capacity

2000+
C&I Sites Delivered

200+
Industries Served

10+
Export Markets



Zhejiang Jinsheng Holding Group Co., Ltd.
11MW/22MWh Energy Storage Power Station



Tongwei Yancheng 10MW/20MWh
Energy Storage Station



Jinxi New Energy User-side 60MW/120MWh
Energy Storage Project



Hengyi Petrochemical 33.5MW/67MWh
Energy Storage Project



Hefei TCL Home Appliances 10MW/20MWh
Energy Storage Station



Hungary C&I 6MW/12MWh
Energy Storage Project



Shenzhen Chiwan port 16MW/60MWh
Energy Storage Demonstration Project



Jiangsu Huai'an Industrial and Commercial
25 MW/50MWh Energy Storage Project



Germany Oldenburg C&I 2MW/4MWh
Energy Storage Project



Japan C&I 1.29MW/2.508 MWh
Energy Storage Project