JDENERGY

JDEnergy

Empower A Better Low-Carbon Life

www.jdenergy.com

Energy storage is the key to achieving the dual carbon goals.

Energy storage is a core enabling technology for building a new-type power system and achieving the dual carbon goals

- **Grid Stabilization:** Enhance the stability of wind, solar, and other renewable energy sources when connected into the grid.
- **Peak Shaving and Frequency Regulation:** Balance power supply and demand while reducing reliance on fossil fuels.
- **Renewable Energy Utilization:** Minimize curtailment of wind and solar energy, increasing the efficiency of green power consumption.

The energy structure is undergoing rapid transformation
with the proportion of variable renewable energy generation increasing annually

29%

Around 29% in 2020

60%

Expected to exceed 60% by 2030

90%

Approaching 90% by 2050

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

Based on Xi'an Jiaotong University, Xi'an JDEnergy Co., Ltd. was co-founded by renowned technologists in power electronics and a group of senior engineers with doctoral or master degrees over ten years of development experience in 2018. It is committed to the technical research and product development of core equipment in advanced energy storage systems, contributing industry-leading solutions to promote access to large-scale clean energy and achieve global carbon neutrality goals.

JDEnergy, with the mission of “reliable clean power for everyone,” aims to “drive the large-scale application of energy storage by innovating power electronics and IoT technology, making energy cleaner and more user-friendly”. Taking advantage of high-efficiency energy storage and conversion technology, IoT, and big data research, it has promoted the transformation of the global energy mix, increased the proportion of clean energy, and brought unfailing light and power to electricity-short regions. That's how it improves the living environment of humanity with stable and user-friendly clean electricity.

Mission

Reliable clean power for everyone

Vision

Being a 100-grade GWh Energy Storage Provider

Values

Focus, Improve, Open, Contribute

DISTRIBUTED ENERGY STORAGE LEADER

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-grade MWh shared energy storage station project was signed
- The A round financing worth RMB 300 million was completed
- The A+ round financing was completed
- eMind2000 cloud platform was launched
- New products eBlock372、eBlock200 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 eBlock418、eBlock745、eBlock230 were released.
- New products including eBlock100C、eBlock261、eBlock836、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-

Empowering the Future

- Delivered its first GWh-scale project – Inner Mongolia Dengkou Project
- Launched the eTrader Intelligent Power Trading and Operation Platform
- Certified as a National Green Factory and National SRUI Enterprise
- Ranked among the "Top 10 Energy Storage Technology Innovation Leaders 2025"
- Released new products: Galaxy 1 and eStation MV-6880
- eBlock-418, eBlock-100C, and eBlock-250 certified under UL 9540A; eBlock-418 and eBlock-250 certified under IEC 62933-5-2
- Consecutively named as a BNEF Tier 1 Energy Storage Manufacturer

EMPOWERING THE FUTURE WITH INTELLIGENCE AND INNOVATION

10GWh
Cumulative installed capacity

2000+
C&I Sites Delivered

30000+
eBlocks Delivered

200+
Served industries

2032days
System has operated safely and reliably

20GWh
Manufacturing Capacity

* Statistics updated as of Feb. 2026.

C&I ENERGY STORAGE LEADER

1 Tier

BloombergNEF Tier1 Global Energy Storage Manufacturer

1 TOP

No.1 energy storage system integrators in terms of shipment volume on user-side in 2024

1 TOP

No.1 energy storage system integrators in terms of shipment volume on user-side in 2023

DEVELOPING A COMPETITIVE ENTERPRISES

2025、2024 Energy Storage Technology Innovation Model **TOP10**

——CNESA

2024 China’s Excellence in Industrial and Commercial Energy Storage Sector

——Solarbe

2023 Most Influential Enterprise

——EESA

2023 Innovative Energy Storage Application **TOP10**

——CNESA

《Discover China》

—— ON CCTV4

《Shaanxi News Broadcast》

——on Shaanxi TV and Shaanxi Channel 1

《Interview with the Founder/CEO》

——with Cailian Press and Sci-Tech Innovation Board Daily

High-tech Enterprise

——Shaanxi Provincial Department of Science and Technology

National Green Factory

——Ministry of Industry and Information Technology

Ational SRUI Enterprise

——Shaanxi Provincial Department of Industry and Information Technology

LEADING SCIENTIFIC AND TECHNOLOGICAL INNOVATION

JDEnergy pioneered the integration of 3S control and protection by combining the BMS, PCS, and EMS into a single standardized cabinet. This innovation enhances control accuracy and response speed, eliminating blind spots and achieving an optimal balance of safety and cost-efficiency.

Supported by strong R&D capabilities, JDEnergy has assembled a team of over **180** experts, led by industry authorities and backed by Xi'an Jiaotong University. To date, the company has invested **297** million RMB in R&D (**7%** of revenue) and holds **233** patents, including **111** invention patents.

Cell-level Management

Monitor individual cell voltage, current, and temperature
Manage battery over-voltage and under-voltage
Manage battery over-temperature and low-temperature

System-level Control

Identify system state information such as SOC (State of Charge) and SOE (State of Energy)
Monitor battery system and perform cell balancing
Execute system energy dispatch and strategy control

* Statistics updated as of Feb. 2026.

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

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.

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.

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.

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.

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

金石投资 Goldstone

高瓴资本 Hillhouse Capital

交银投资 BOCOM Investment

建信投资 CCB Investment

CD Capital 晨道资本

MEGMEET 麦格米特

CIMC 中集

峰和资本 FENGHE CAPITAL

皖能资本

朝希资本 SPARKEDGE CAPITAL

“ALL IN ONE” DESIGN CONCEPT

The core of the “All-in-One”design concept is the integration of high-longevity battery cells, BMS, PCS, active safety systems, and a thermal management system into a standardized outdoor cabinet—resulting in the intelligent, plug-and-play eBlock.

This design transforms energy storage from complex engineering projects into easily deployed, productized solutions. It significantly reduces installation and maintenance costs, while accelerating widespread adoption and market scalability.

All in One

High-Performance
Multifunctional PCS

High-Efficiency and Balanced BMS
High-longevity battery cells

High-Efficiency Thermal
Management System

SYSTEM DESIGN CONCEPT

Based on the "Internet of Things" 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

INNOVATION DRIVES THE FUTURE

Low-Voltage Grid-Connected Products for User-Side

eBlock 172

2021

The world's first modular energy storage product built on the "All-in-One" concept leading the industry's transformation.

eBlock 200

2022

Energy Storage System shifting from project-based engineering to productized system design reshaping integration standards

eBlock 230

2023

Energy density Industry-leading

eBlock 250

2024

A new generation of self-evolving energy storage products ready for power spot markets.

eBlock 100C

2024

Photovotaics &energy storage integration for greener future

eBlock 522

2025

Long-term Value, Steady Progress Toward Excellence
The New-Generation Expert in Industrial & Commercial Long-Duration Energy Storage

INNOVATION DRIVES THE FUTURE

Medium-Voltage Grid-Connected Products for Source-Side

eBlock 372

2022

Deployed in the world's first 100 MWh modular energy storage power station.

eBlock 745

2023

Deployed in the Largest Long-Duration User-Side Energy Storage Project in Shenzhen

eBlock 418

2023

Energy Storage Integrated with the Steel Industry
The Largest User-Side Distributed Modular Energy Storage Project in Northern China

eStation HV35-5160

2024

Deployed in One of the Largest Grid-Forming Energy Storage Stations in China

Galaxy 1

2025

Deployed in JDEnergy's first GWh-scale energy storage project

eStation MV-6880

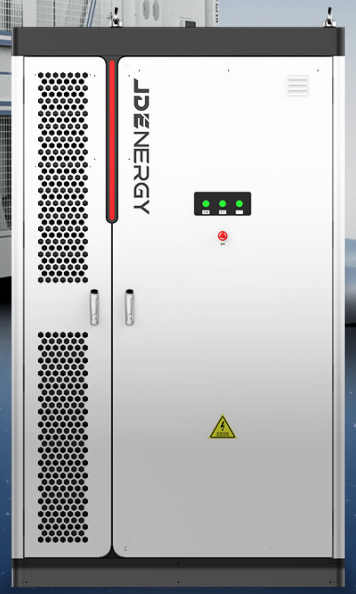
2025

Liquid-cooled string PCS MV station, compatible with 2h / 4h models

RELIABLE PRODUCTS

eStation MV-6880

eBlock 100C



eBlock 418

eBlock 250

Galaxy 1

PRODUCT STRENGTHS

Safe and stable

- Safety Warning System Design
- BCS Control and Protection System
- Multiple fire protection system design

Economically efficient

- Enhancement of storage and discharge capacity
- Improved conversion efficiency
- Flexible deployment and scalable expansion

Grid friendly

- Operation in weak network
- Primary and secondary frequency control support
- High-speed energy scheduling
- Fault Voltage Ride Through Capability Inertia Control

Intelligent O&M

- Significantly reduced O&M costs

ALL SCENARIO SOLUTION

As the leader in distributed intelligent energy storage system solutions, JDEnergy's business layout comprehensively covers the full spectrum of the energy industry chain—including source, grid, and pv—demonstrating its profound comprehensive strength and extensive application capabilities in the energy storage field.

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.

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

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.

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

OPERATION AND MAINTENANCE SERVICE

Our service

Truly safe and reliable products are the best service

Service Idea

Customer First, Professional and Efficient, Exceeding Expectations

Contact

400-133-6580

2h

Telephone Response within 2 Hours

Cloud-based Maintenance, Real-time Online Support

7x24

7/24 On-site Service

GLOBAL PRESENCE

JDEnergy Headquarter • China·Xi'an

Global Marketing and Service Center: • China·Hongkong • China·Tiawan • America • Netherland • Italy • Germany • Hungary • Australia • South Africa

DIGITAL O&M：eGo PLATFORM

Information Dissemination

Pre-sales Service

Order Fulfillment

O&M service

CASE REFERENCE Source / Grid-side

≥ 7GWh
Total Installed Capacity

2000MWh
Largest Single Project Capacity

Inner Mongolia Dengkou 500MW/2000MWh Energy Storage Project

Ningxia Hanjun 150 MW | 600 MWh 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

Gansu Jiuquan 450MW Energy Storage Project

Zhendong Electrochemical 100MW | 200 MWh Energy Storage Project

CASE REFERENCE User-side

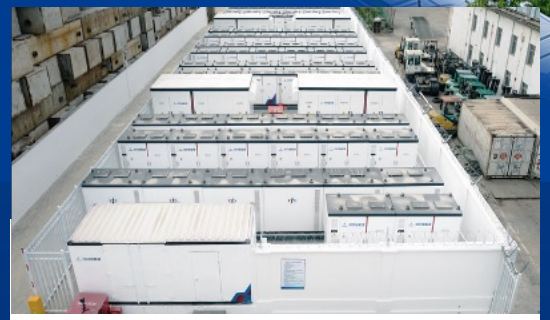
≥ 3GWh
Total Installed Capacity

2000+
C&I Sites Delivered

200+
Served Industries

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

Hengyi Petrochemical 33.5 MW | 67 MWh Energy Storage Project



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

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

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

Hungary Industrial and Commercial 6MW/12MWh Energy Storage Project

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

Tongwei Yancheng 10MW/20MWh Energy Storage Station

JDENERGY 奇点能源

Reliable Clean Power for Everyone

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