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

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

# LEADER IN SMART ENERGY STORAGE ACROSS THE VALUE CHAIN

## 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 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 SRUI 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

# EMPOWERING THE FUTURE WITH INTELLIGENCE AND INNOVATION

**Tier 1**

BloombergNEF Tier1 Global Energy Storage Manufacturer

**TOP 1**

China‘s No.1 energy storage system integrators in terms of shipment volume on user-side in 2023 & 2024

| 10GWh | 2000+ | 30000+ | 200+ |
|---|---|---|---|
| Cumulative installed capacity | C&I sites Delivered | eBlocks Delivered | Industries Served |

## 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

* Statistics updated as of May 2026.

JDENERGY

Reliable Clean Power for Everyone

# CAPITAL TRUST AND WIN-WIN COOPERATION

Guided by a concept of win-win cooperation, JD Energy 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, JD Energy 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

# 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 **336** million RMB in R&D (**7%** of revenue) and holds **238** patents, including **114** 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 May 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.

# SOURCE SIDE SOLUTION

Source side

## Source Side Solution

Source side：Through efficient energy storage and power dispatching, 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：Empowering 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

## Advantages of Source-Grid Side Solutions

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

## Source-Grid Side Products

eBlock 418

eStation HV35-5160

Galaxy 1

# USER SIDE MEDIUM-VOLTAGE SOLUTION

user side

## ■ User Side Medium-Voltage Solution

For medium-voltage commercial and industrial parks, the energy storage system enables large-scale peak-valley arbitrage and demand management through high-power charge and discharge capabilities. The system connects directly to the user's main distribution network, supporting real-time and time-of-use price responses. During grid peak periods, it releases stored energy to reduce transformer capacity costs while rapidly responding to regional frequency regulation demands.

Integrated with an EMS energy management system, it can seamlessly interface with virtual power plant (VPP) platforms to participate in energy trading. Meanwhile, it provides millisecond-level backup power for high-reliability power consumption scenarios such as data centers and precision manufacturing, significantly enhancing power supply continuity and accelerating enterprise low-carbon transformation.

## ■ Advantages of User Side Medium-Voltage Solution

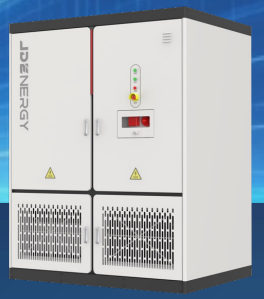
Built-in diversified energy storage system applications, including peak shaving and valley filling, demand control and others

Cloud-based AI intelligent control, multi-energy complementarity, comprehensively reducing customer electricity costs

With the support of eMind, it supports remote monitoring via APP

## ■ User Side Medium-Voltage Products

eBlock 418



eBlock 522

Galaxy 1

# USER SIDE LOW-VOLTAGE SOLUTION

user side

## ■ User Side Low-Voltage Solution

For low-voltage C&I scenarios, the energy storage system enables refined power management through intelligent control terminals. During the day, it leverages PV generation and energy storage for peak shaving and valley filling, while at night it charges at off-peak rates to support daytime production, effectively reducing overall electricity costs. The system automatically monitors load peaks and dynamically suppresses demand charges, while providing 2–4 hours of emergency backup power for critical loads when needed

With its modular design, the system can be flexibly adapted to applications such as solar-storage-charging integrated parking lots and backup power for 5G base stations. By aggregating massive distributed resources, it also participates in virtual power plant (VPP) scheduling, unlocking additional value from user-side energy assets.

## ■ Advantages of User Side Low-Voltage Solution

Flexible multi-cabinet expansion with modular design, adaptable to diverse scenarios such as community charging stations and small-to-medium C&I applications.

The intelligent control terminal enables dynamic demand management, automatically suppressing load peaks and reducing overall electricity costs

With the support of eMind, it supports remote monitoring via APP

## ■ User Side Low-Voltage Products

eBlock 100C

eBlock 261

# GLOBAL PRESENCE


**JDEnergy Headquarter** • China·Xi'an

**China:** • Yinchuan • Chongqing • Yunnan • Guangxi • Guangdong • Zhejiang • Jiangsu • Hebei • Hongkong • Taiwan

**Overseas :** • America • Nethezrland • Italy • Germany • Hungary • Australia • South Africa

# CASE REFERENCE Source / 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

Gansu Jiuquan 450MW/900MWh Energy Storage Project

Zhendong Electrochemical 100MW/200 MWh Energy Storage Project

# CASE REFERENCE User-side

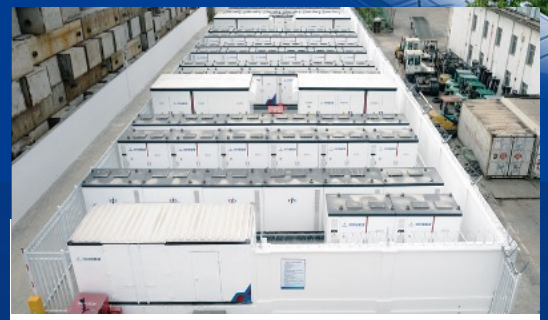
**≥ 3GWh**
Total Installed Capacity

**2000+**
C&I Sites Delivered

**200+**
Served Industries


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


Hengyi Petrochemical 33.5MW/67MWh Energy Storage Project



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

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

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

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

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

Italy C&I
0.1MW/0.24 MWh Energy Storage Project

JDENERGY 奇点能源

# Reliable Clean Power for Everyone


**Xi'an JDEnergy Co., Ltd.**

www.jdenergy.com 400-1336580 / 029-84845916 Headquarters Address: No. 25, West Section of First Biyuan Road,High-tech Zone, Xi’an City, Shaanxi, China