JDENERGY

JDEnergy

Empower A Better Low-Carbon Life



www.jdenergy.com

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 the first GWh-level project — Neimeng Dengkou Project
- New products including Galaxy 1 and eStation MV-6880 were released
- eBlock-418, eBlock-100C, and eBlock-250 successfully passed UL 9540A certification； eBlock-418 and eBlock-250 obtained IEC 62933-5-2 certification
- Delievred the world's largest grid-side distributed modular energy storage power station—Yunnan CNNC Linxiang 200MW/400MWh Energy Storage Project



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 Oct.2025.

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

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



“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

JDEnergy energy storage system solution is based on the "Thing-Link-Cloud" design concept, highly integrating the energy block eBlock, interconnecting energy and information through the energy chain eLink, and performing energy analysis and management through the energy cloud eMind in the cloud. It solves common industry challenges found in traditional centralized energy storage solutions, such as low system safety, high parallel capacity loss rate, and short system lifespan.



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 **246** million RMB in R&D (**7%** of revenue) and holds **226** patents, including **106** 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 Oct.2025.

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.

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 261

2024

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



eBlock 100C

2024

photovoltaics &energy storage integration for greener future

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



eBlock 836

2023

Fully Upgrade
The Industry's Only Compact System with Full-Site Grid-Forming Capability



eStation HV35-5160

2024

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

RELIABLE PRODUCTS



eStation HV35-5160

eBlock 100C

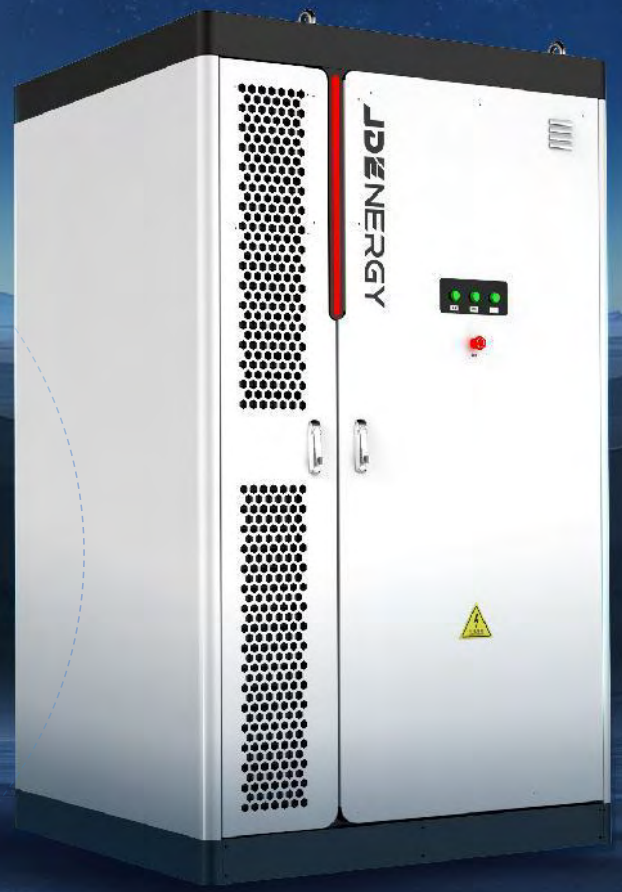
eBlock 418

eBlock 261

Galaxy 1

Smart eBlock- 418A- 690V Parameter Table

Battery System Configuration	418kWh
Battery Type	LFP 314Ah
Battery Pack Configuration	1P416S
Battery Voltage Range	1164.8~1497.6V
AC Rated Power	209kW
AC Voltage Range	690V（－15%~10%)
Rated Grid Frequency	50Hz/60Hz
Power Factor	≥0.9 (at full power)
Current THD	＜3%
Cooling Method	Liquid cooling (battery) + Air cooling (PCS)
Fire Protection System	Cell-level detection + Cabinet-level aerosol
Protection Level	IP55 (Cabinet)
Operating Temperature	--30~55℃
Dimensions (WDH)	1400mm*1300mm*2350mm
Weight	3800kg



Smart eBlock- 250- 400V Parameter Table

Battery System Configuration	250kWh
Battery Type	LFP 314Ah
Battery Pack Configuration	1P260S
Battery Voltage Range	728~832V
AC Rated Power	125kW
AC Voltage Range	400V（－15%~10%)
Rated Grid Frequency	50Hz/60Hz
Power Factor	≥0.9
Current THD	＜3%
Cooling Method	Liquid cooling (battery) + Air cooling (PCS)
Fire Protection System	Cell-level detection + Cabinet-level aerosol
Protection Level	IP55 (Cabinet)
Operating Temperature	-35~55℃
Dimensions (WDH)	1000mm×2350mm×1350mm
Weight	2800kg



Smart eBlock- 100C- 400V Parameter Table

Battery System Configuration	120kWh
Battery Type	LFP 314Ah
Battery Pack Configuration	1P128S
Battery Voltage Range	358~460V
AC Rated Power	50kW
AC Voltage Range	400V（–15%~10%)
Rated Grid Frequency	50Hz/60Hz
Power Factor	≥0.9
Current THD	＜3%
Cooling Method	Liquid cooling (battery) + Liquid cooling (PCS)
Fire Protection System	Cell-level detection + Cabinet-level aerosol
Protection Level	IP55 (Cabinet)
Operating Temperature	-35~55℃
Dimensions (WDH)	1000mm×1000mm×2270mm
Weight	1600kg



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CERTIFICATION LIST

	Suitable for Large C&I and Utility-Scale & Stand-alone Energy Storage	The Best Choice for C&I Energy Storage	The Best Choice for EV+PV+ESS
Product	eBlock-418A	eBlock-250	eBlock-100C
Certification	IEC 61000 IEC 62477 IEC 63056 IEC 62619 IEC 60730 IEC 60529 IEC 62933-5-2 UL 9540A VDE 4110&4120 EN 50549-1&-2 CEI 0-16 IEEE 1547 UN38.3	IEC 62619 IEC 62109 IEC 62477 IEC 61000 EN 55011 IEC 63056 IEC 62933-5-2 UL 9540A VDE 4105&4110 EN 50549-1&-2 CEI 0-21&0-16 IEEE 1547 UN 38.3	IEC 62619 IEC 62109 IEC 62477 IEC 61000 IEC 60529 IEC 63056 IEC 62933-5-2 UL 9540A VDE 4105 EN 50549-1 CEI 0-21 UN38.3

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

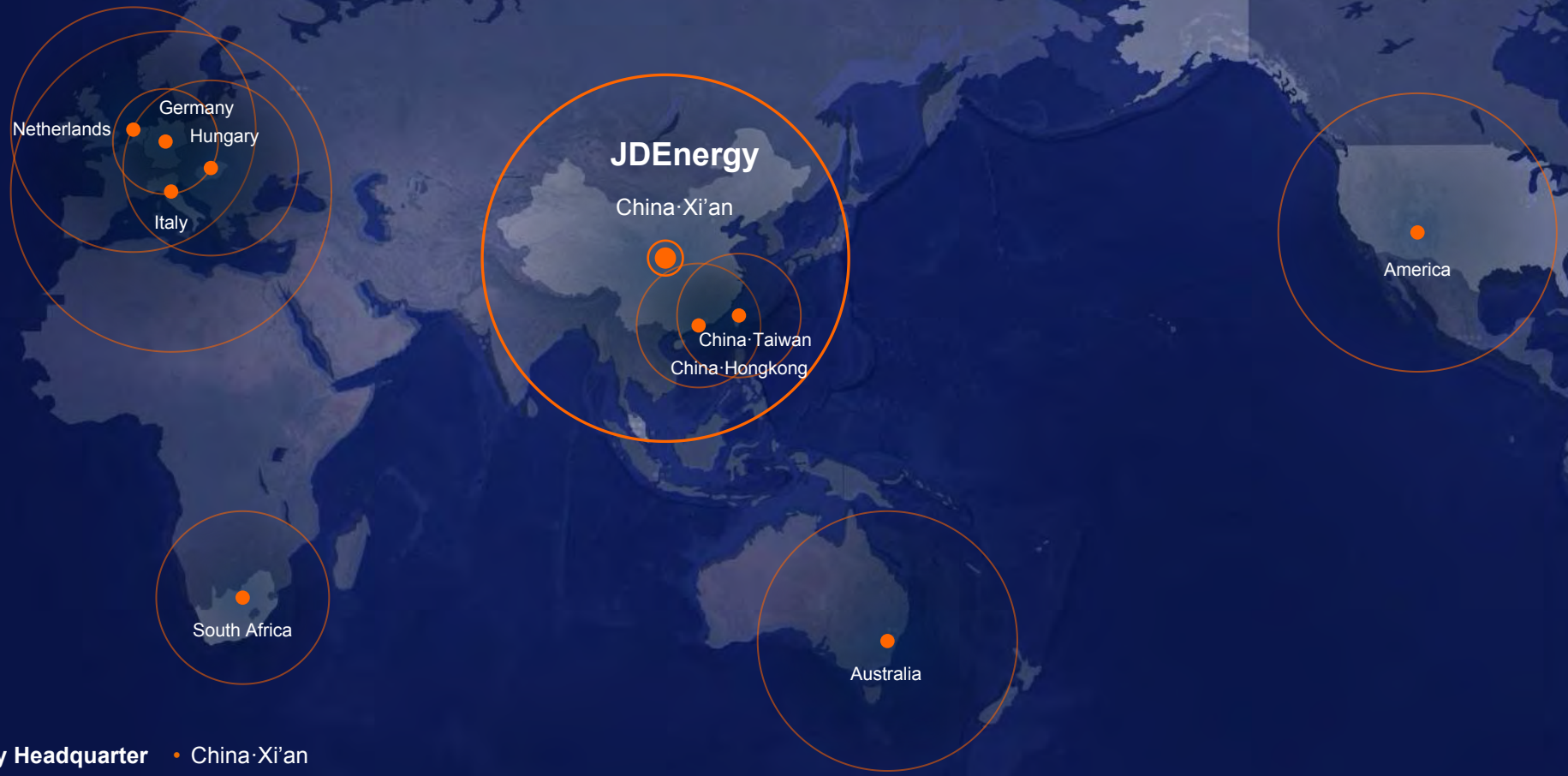
Grid friendly

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

Intelligent O&M

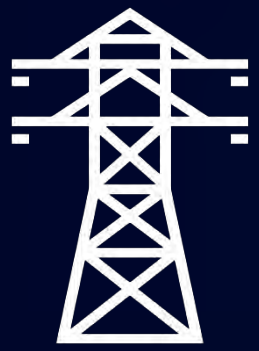
- Significantly reduced O&M costs

GLOBAL PRESENCE



JDEnergy Headquarter • China·Xi'an

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



Europeen Projects
Grid Side

EU Project Cases		
eBlock 418A	6MW/12MWh	Budapast, Hungary
eBlock 250	2.5MW/5MWh	Netherlands
eBlock418A	5MW/10MWH	Netherlands
eBlock 100C	01.2MW/2.5MWh	Netherlands
eBlock 250	12MW/25MWh	Germany
eBlock418A	16MW/32.5MWH	Germany
eBlock 418A	30MW/75MWh	Hungary
eBlock 418A	1.672MW/3.344 MWh	Hungary
eBlock 418A	4.389MW/8.778 MWh	Hungary
eBlock 418A	15.466MW/30.932MWh	Hungary
eBlcok 100C	2MW/4MWh	Italy





6 MW

12 MWh

Project Capacity

eBlock 418A

Eger, Hungary

COD: May 2026

First delivered Energy Storage Station in EU

The 6 MW / 12 MWh project is the first overseas C&I modular BESS delivered to the customer in October 2024.
It is the first phase of the Hungarian Crescom Project, which is divided into three phases. A total of 29 units of JDEnergy's eBlock 418A were supplied. The main purpose of the project is to support photovoltaic consumption.

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11 MW

22 MWh

Project Capacity

eBlock 418A

Sopron Hungary

COD: Apr 2026
RTE 89.3%



The first delivered Grid-side Project in Hungary

The project utilizes 53 eBlock 418A units, with a total capacity of 11 MW / 22 MWh. Located in Hungary, it serves two primary functions: providing ancillary services to the power grid and integrating local wind power to minimize curtailment.

31 MW

75 MWh

Project Capacity

eBlock 418A

Sopron Hungary

COD: Jul 2026



The Largest delivered Grid-side Project in Hungary

Phase III was awarded in November 2025, with a total capacity of 75 MWh. A total of 180 units of eBlock 418A were supplied to the customer. This phase is an extension of the collaboration between JDEnergy, Crescom, and Hungary's national grid operator MVM, following the success of Phase II. The project serves two primary functions: frequency regulation and participation in the electricity spot market.

16 MW

32.5 MWh

Project Capacity

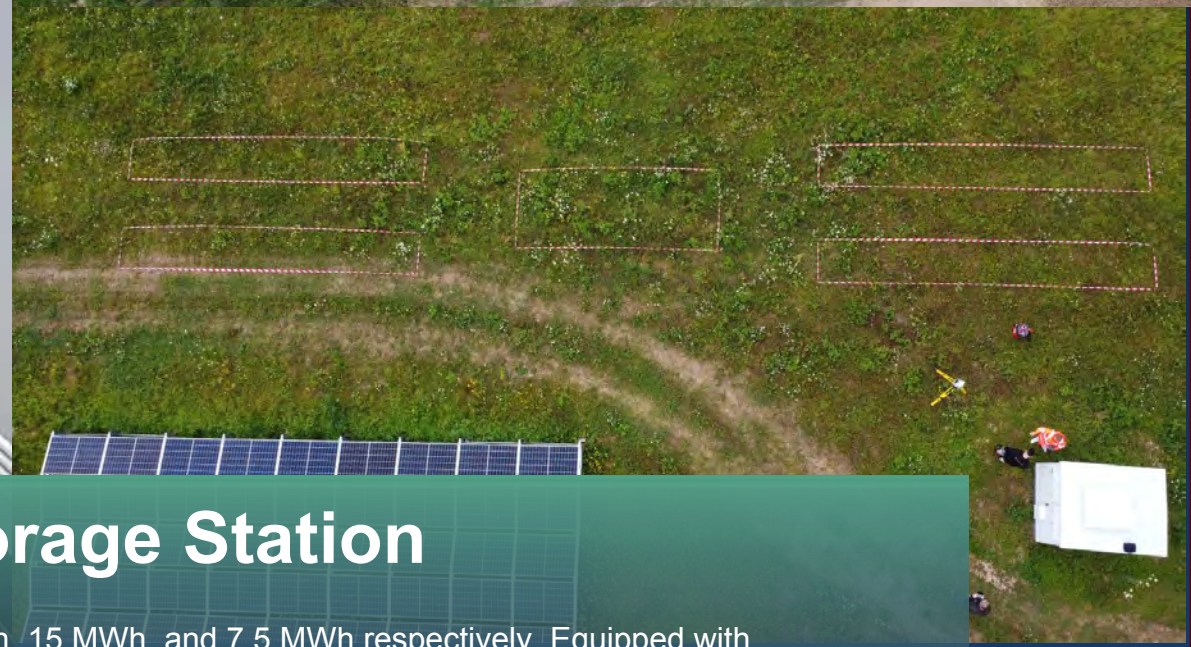
eBlock 418

Germany

COD：Dec 2026
RTE:88%
Status: under construction







Green electricity Germany Energy Storage Station

This is a PV-BESS co-location project located across three sites, with capacities of 10 MWh, 15 MWh, and 7.5 MWh respectively. Equipped with grid-forming functionality, it is a green electricity project that adopts 78 units of the eBlock 418A (209 kW / 418 kWh) cabinet and utilizes JD's innovative 3S control technology. VDE 并网认证 FNN 构网认证

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5 MW

10 MWh

Project Capacity

eBlock 418

Netherlands

COD：Dec. 2026
RTE:88%
Status: under construction



Green electricity Netherlandss Energy Storage Station

This is a BESS peak-shaving project with a capacity of 10 MWh. It is equipped with 24 units of the eBlock 418A (209 kW / 418 kWh) cabinets and utilizes JDEnergy’s innovative 3S control technology.

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12.5 MW

25 MWh

Project Capacity

eBlock 250

Germany

COD Phase 1：**Dec 2025**
COD Phase 2：**Apr 2026**
RTE:92%

C&I German Energy Storage Station

The project utilizes 100 eBlock-250 units, with a total capacity of 12.5 MW / 25 MWh. It is divided into two phases: Phase 1 with a capacity of 10 MWh and Phase 2 with a capacity of 15 MWh. CUSTOMER FEEDBACK RTE 92%

JDENERGY 奇点能源

Reliable Clean Power for Everyone



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