

# **Dongoudong Wind and Solar Energy Storage Power Station**





## Overview

---

What is the largest grid-forming energy storage station in China?

This marks the completion and operation of the largest grid-forming energy storage station in China. The photo shows the energy storage station supporting the Ningdong Composite Photovoltaic Base Project. This energy storage station is one of the first batch of projects supporting the 100 GW large-scale wind and photovoltaic bases nationwide.

What is China's first 'wind-solar-thermal-storage integration' project?

(Photo by Xu Ke/People's Daily Online) China's first "wind-solar-thermal-storage integration" ultra-high voltage (UHV) project, the Longdong-Shandong  $\pm 800$  kilovolt direct current (DC) transmission project, was put into operation on May 8.

What is the Longdong-Shandong project?

The Longdong-Shandong project also marks the debut of China's standardized technology for UHV DC transmission at  $\pm 800$  kilovolts and 8 million kilowatts. Several similar projects are now underway across China.

What is the integration rate of wind and solar power?

The integration rates of wind and solar power are 64.37 % and 77.25 %, respectively, which represent an increase of 30.71 % and 25.98 % over the MOPSO algorithm. The system's total clean energy supply reaches 94.1 %, offering a novel approach for the storage and utilization of clean energy. 1.

Introduction



## Dongoudong Wind and Solar Energy Storage Power Station

---

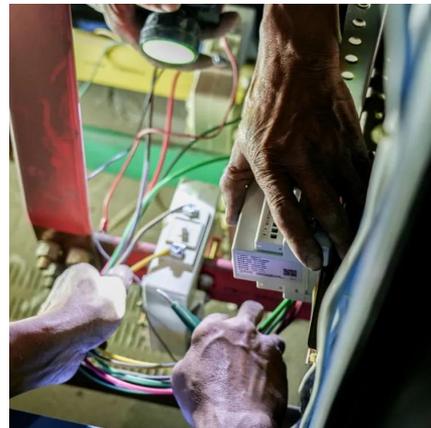


### Optimization Method for Energy Storage System in Wind-solar-storage ...

Jul 15, 2024 · Abstract: The volatility and randomness of new energy power generation such as wind and solar will inevitably lead to fluctuations and unpredictability of grid-connected power. ...

### SDEPCI Participates in Design! China's First "Wind-Solar-Coal-Storage

May 19, 2025 · When wind, solar, and coal power from Longdong, regulated by energy storage systems, transform into stable current and travel 915 kilometers to the Dongping Converter ...



### Solar and wind power data from the Chinese State Grid Renewable Energy

Sep 21, 2022 · Accurate solar and wind generation forecasting along with high renewable energy penetration in power grids throughout the world are crucial to the days-ahead power ...



### China powers up nation's largest standalone battery storage ...

3 days ago · A 500 MW/2,000 MWh standalone battery energy storage system (BESS) in Tongliao, Inner Mongolia, has begun commercial operation following a five-month construction ...



[China unveils first integrated wind-solar ...](#)

May 23, 2025 · China's first "wind-solar-thermal-storage integration" ultra-high voltage (UHV) project, the Longdong-Shandong  $\pm 800$  kilovolt direct ...



**Wind Solar Storage Charging Solutions by DOHO Electric at ...**

Nov 26, 2025 · 1. Smart EV Charging Stations -- A Key Component in Wind-Solar-Storage-Charging Integration Support for AC and DC high-power charging Dual ...



**Optimization study of wind, solar, hydro and hydrogen storage ...**

Jul 15, 2024 · Consequently, this article, targeting the current status of multi-energy complementarity, establishes a complementary system of pumped hydro storage, battery ...





### [China's Largest Grid-Forming Energy Storage Station ...](#)

Apr 9, 2024 · On March 31, the second phase of the 100 MW/200 MWh energy storage station, a supporting project of the Ningxia Power's East Ningxia Composite Photovoltaic Base Project ...



### **China unveils first integrated wind-solar-thermal UHV power ...**

May 23, 2025 · China's first "wind-solar-thermal-storage integration" ultra-high voltage (UHV) project, the Longdong-Shandong ±800 kilovolt direct current (DC) transmission project, was ...

### [The Development of New Power System and Power ...](#)

Apr 22, 2024 · Promote large-scale cross-regional transmission and consumption of new energy from large-scale wind power and PV bases in deserts, through "integration of wind, solar, ...



### **Newsroom-detail**

Jul 28, 2025 · The floating PV and onshore wind power project share the booster station and transmission lines, successfully converging wind farm, PV station and storage device in the ...



## Contact Us

---

For technical specifications, project proposals, or partnership inquiries, please visit:  
<https://www.eiei.pl>

### Scan QR Code for More Information



<https://www.eiei.pl>