

ZWAYN

**TECHNOLOGY LUSTER LIFE**

# **ENERGY** — — **STORAGE**

**SYSTEM SOLUTION LEADER**

Residential, Commercial & Industrial Energy Storage Solution



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## COMPANY PROFILE

ZWAYN New Energy Co., Ltd., established in 2011, adheres to the innovative development concept and has rapidly developed into a technology-driven national high-tech enterprise integrating R&D, design, production, and sales of energy storage power. Its brands include "GENIXGREEN", and its business covers more than 100 countries in Europe, America, Africa, Southeast Asia and the Middle East, with overseas warehouses in Europe, Africa and America.

As of June 2024, the global installed capacity has reached 6GWh, and the business is currently experiencing rapid development.

POWER ANYWHERE & ANYTIME

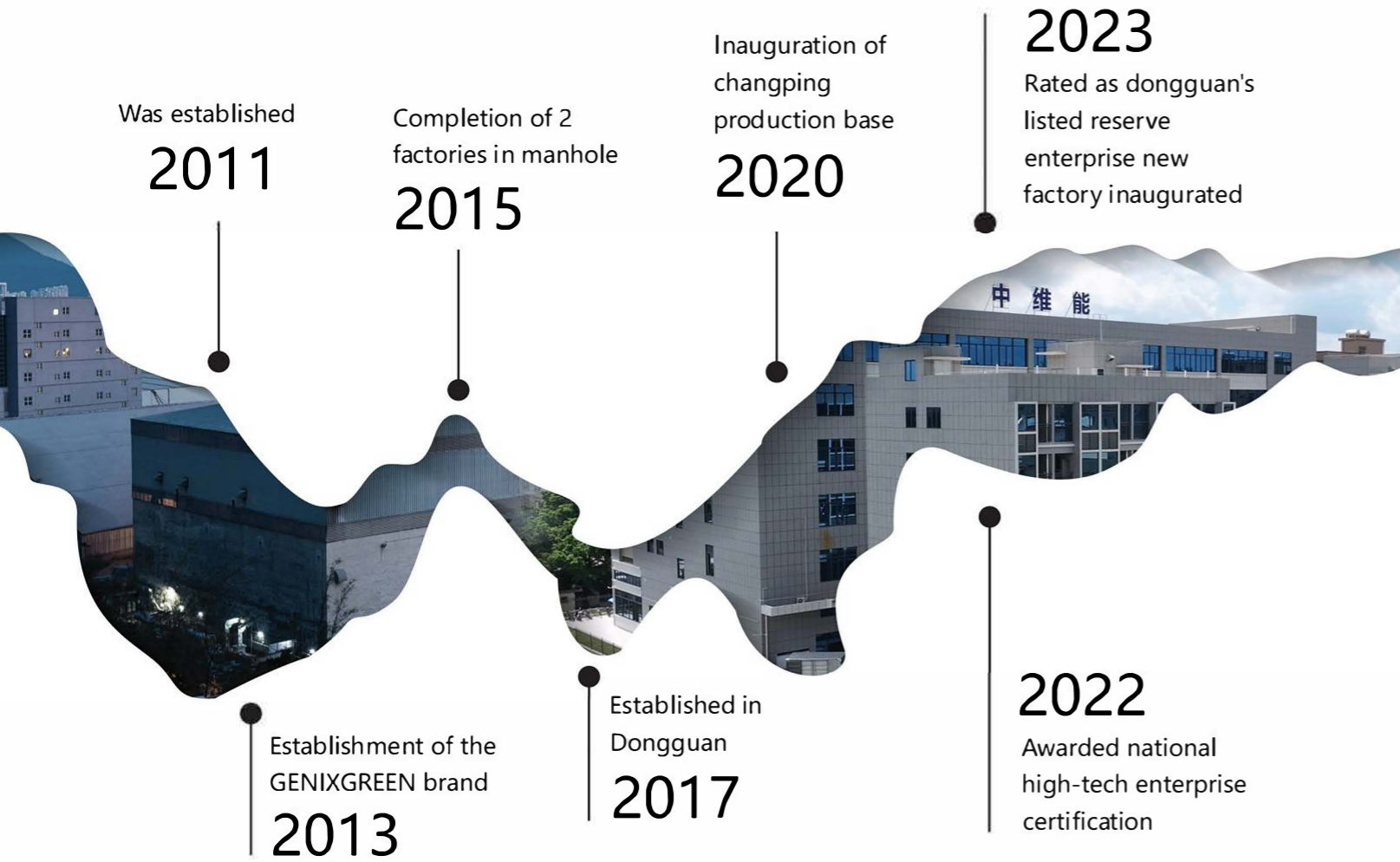
# BRAND CONCEPT

**Vision:** Committed to being the vanguard of global green energy

**Mission:** Provide safe, reliable, and intelligent energy storage systems.

**Values:** Customer-first, innovation-driven, open and inclusive, pursuit of excellence.

# MILESTONES



# COMPANY STRENGTH



**100+**  
Countries and regions



**65+**  
Certifications



**50+**  
R & D Engineer



**650+**  
Staff



**18+**  
Industry experience

# GLOBALIZED MARKETING SERVICE LAYOUT



WAREHOUSE	
Warehouses In Netherlands	Warehouses In Panama
Warehouses In South Africa	Warehouses In Zambia
Warehouses In Tanzania	Warehouses In Ghana
Warehouses In Dubai	Warehouses In Pakistan
OFFICE	
GENIXGREEN San Francisco, USA	GENIXGREEN Europe, Netherlands

Dongguan factory as the core of R & D and production , radiation coverage of more than 100 countries, the Netherlands , Panama , South Africa , Zambia , Tanzania , Ghana , Dubai and other countries stationed in 10 overseas warehouses , to quickly meet customer demand !

# COMPANY MEDAL

65+ International standards battery certificates



60+ R&D design innovation patents and International factory quality certificates



# 6 CORE TECHNOLOGY



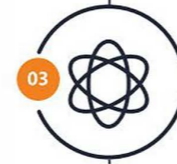
## Safety

Adopting industry-leading nano safety coating battery cells, reducing the reactivity of materials and electrolytes, and improving the thermodynamic stability of battery cells



## Stability

Relying on BMS monitoring to comprehensively improve systemsafety andstability



## Intelligence

An intelligent management system can monitor the working status and data of battery cells inreal time, making battery management more intelligent



## Cloud data

The industry-leading AIoT battery management system combines artificial intelligence with technology to improve product performance



## High efficiency

By using technological methods to optimize the battery system and architecture, the system efficiency exceeds 95%



## High energy ratio

The combination of technology, intelligence, and high stability products effectively improves the efficiency and lifespan of products, reducing costs and increasing efficiency



## RESIDENTIAL PROJECT PLAN

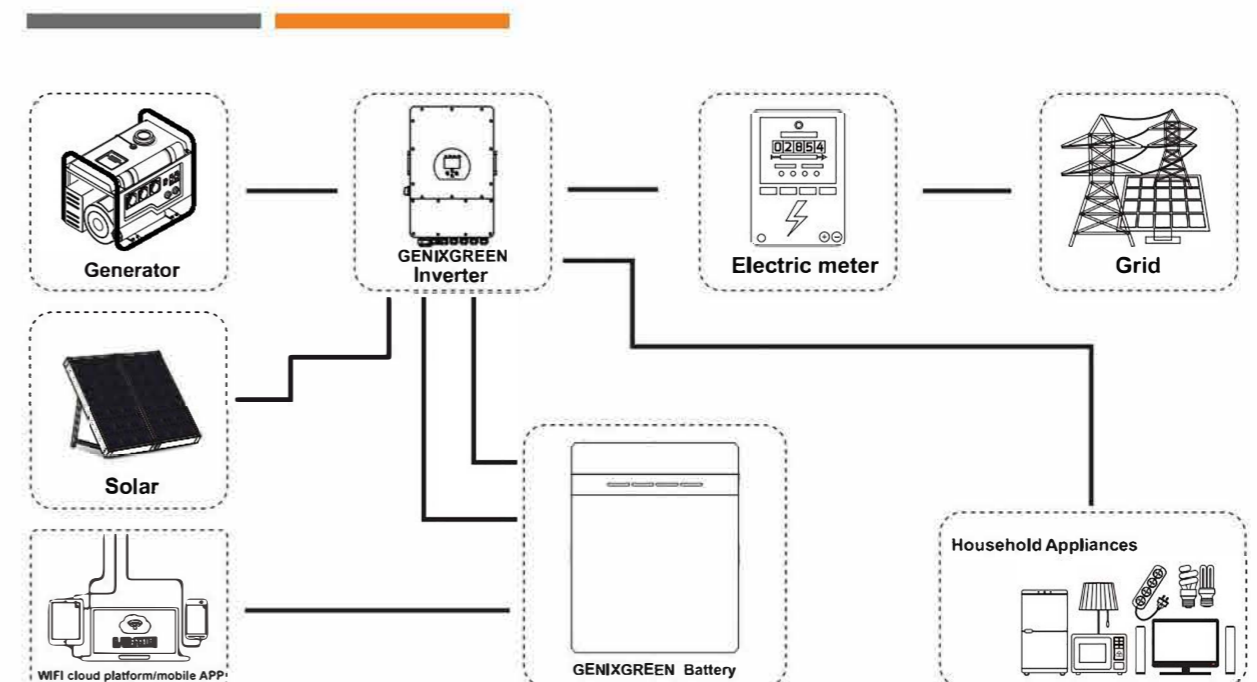
### Applicable scenarios

Suitable for various types of photovoltaic storage projects, with a system power of less than 5KW per unit and high photovoltaic utilization rate

### Characteristics

Flexible Expansion: Supports up to 16 parallel devices for use; Long cycle and high lifespan: Lithium iron phosphate (LFP) >6000 cycles (80% DOD); Easy installation: floor standing or wall mounted; Quick debugging compatibility: Supports compatibility with mainstream inverter brands in the market.

## LOW VOLTAGE LITHIUM BATTERY WORKING DIAGRAM



## 51.2V Wall Mounted LiFePO4 Battery

5.12kWh/10.24kWh/14.34kWh/16.08kWh



## 51.2V Wall Mounted LiFePO4 Battery

5.12kWh/10.24kWh/14.34kWh/16.08kWh



Product Model	ES-BOX26	ES-BOX26 PLUS	ES-BOX26 MAX
Nominal Energy	5.12kWh	10.24kWh	14.34kWh/16.08kWh
Nominal Voltage	51.2V	51.2V	51.2V
Nominal Capacity	100Ah	200Ah	280Ah/314Ah
Cell Type	LFP	LFP	LFP
Standard Charge Voltage	56V	56V	56V
Max. Discharge Current	100A	200A	200A
Discharge Cut-Off Voltage	44.8V	44.8V	44.8V
Parallel Function	Support 16 Units in Parallels		
Communication Interface	RS485、RS232、CAN (Optional)		
Cycle Life *	≥6000 Cycles (25°C±2°C, 0.2C/0.2C, 80%DOD)		
Charge Temperature Range	0~65°C		
Discharge Temperature Range	-20~65°C		
Certification	Pack: CEI 0-21/CE/IEC 62619/UL1973 by Intertek/MSDS/UN38.3 Cell: UL 1642/IEC 62619/CE/EMC/ROHS/MSDS/UN38.3		
Dimensions	480*630*155mm	480*660*240mm	495*830*250mm
Weight	57kg	95kg	140kg
Installation Method	Wall Mounted/Floor Standing		
Warranty	5 Years (under warranty terms)		
Optional	WiFi remote monitoring		

### Product Features:

<b>DOD 80%</b> 6000 cycles at 80% DOD	<b>1C/1C</b> 1C/1C continual charge and discharge	<b>5 years</b> 5 years standard warranty
Compatible with multiple inverter brands	WiFi Remote monitoring	Superior LiFePO4 safety performance
Low voltage safety connection	<b>MAX 16</b> Max.16 modules in parallel	Cloud management & monitoring OTA update remotely

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# Low & High Voltage Integrated or Stacked Energy Storage





## DC+AC COUPLING PROJECT PROPOSAL

### Applicable scenarios

Medium-sized industrial and commercial places such as factories, shopping malls, islands, and other areas without basic power grids, weak power grids, or unstable electricity supply.

### Characteristics

**Efficiency:** Improve energy efficiency for efficient energy allocation and use

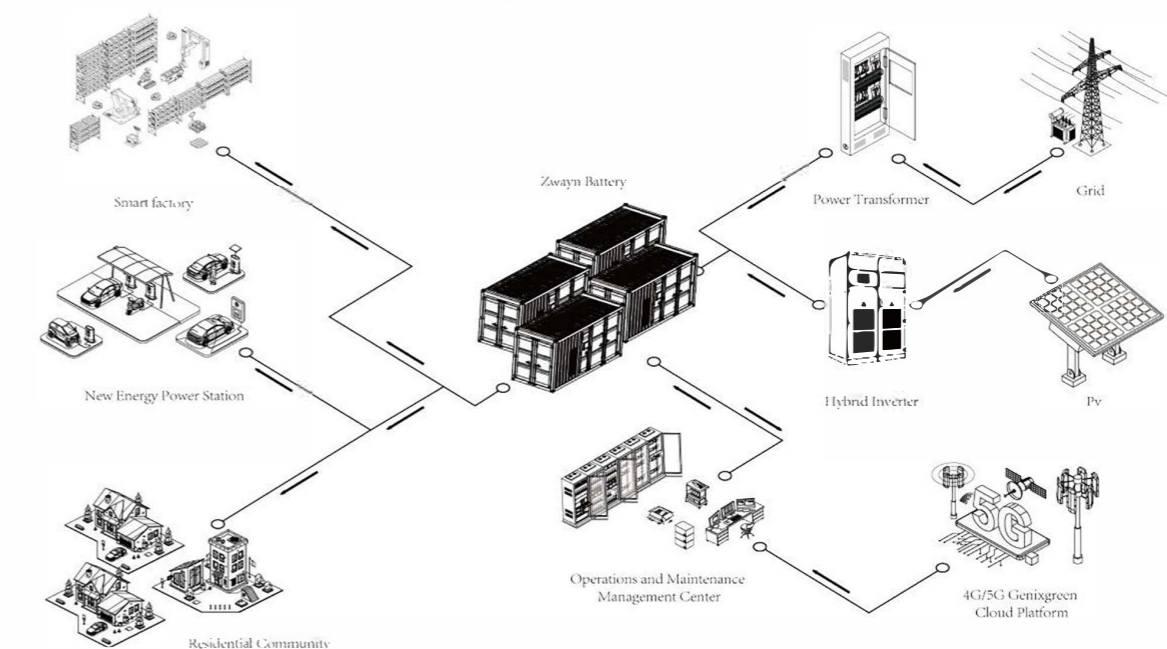
**Economy:** Take advantage of the price difference between peak and off-peak grid electricity to maximize return on investment and minimize electricity costs.

**Environmental:** Promoting clean energy consumption, reducing reliance on traditional energy sources, and contributing to carbon neutrality goals.

**Stability:** Smooth current, reduce the impact on the grid, and improve the grid's stability.

**Flexibility:** The system architecture is flexible and customizable to different application scenarios and requirements.

## COMMERCIAL & INDUSTRIAL ENERGY STORAGE



# Magic 143kWh

## Outdoor Energy Storage All-in-one Cabinet

122kWh/143kWh

### Product Features



**Exquisite Craftsmanship**  
Higher specific energy, more environmentally friendly.



**Integrated Design**  
Convenient installation and higher efficiency.



**Full Bracket Design**  
Full space for each cell's best performance



# PROJECT CASES

▼ Italy 50kWh/ 24KW



▼ Austria 20kWh /8KW



▼ Zambia, Power Reserve  
40kWh/ 24KW



▼ Lebanon 50 kWh/ 35 KW



▼ South Africa 40kWh/24KW



▼ Nigeria 30kWh/ 15KW



▼ South Africa Integrated Photovoltaic  
Energy Storage System



▼ Germany Integrated Photovoltaic  
Energy Storage System



▼ France 60kWh/20KW



▼ Brazil 15kWh/8KW



▼ Columbia 20kWh/10KW



▼ Pakistan 30kWh/20kWh Power Preparedness



▼ Middle East Commercial



▼ 1MWh \*2



▼ South Africa Commercial



▼ 7.5FT 107kWh+50kW



▼ Zambia, Africa, Commercial Power Reserve



▼ 143kWh/ 100kW PCS



▼ 860kWh/ 500kW PCS



▼ South Africa Commercial



▼ 1075kWh/ 500kW PCS



▼ Pakistan Commercial Power Preparedness

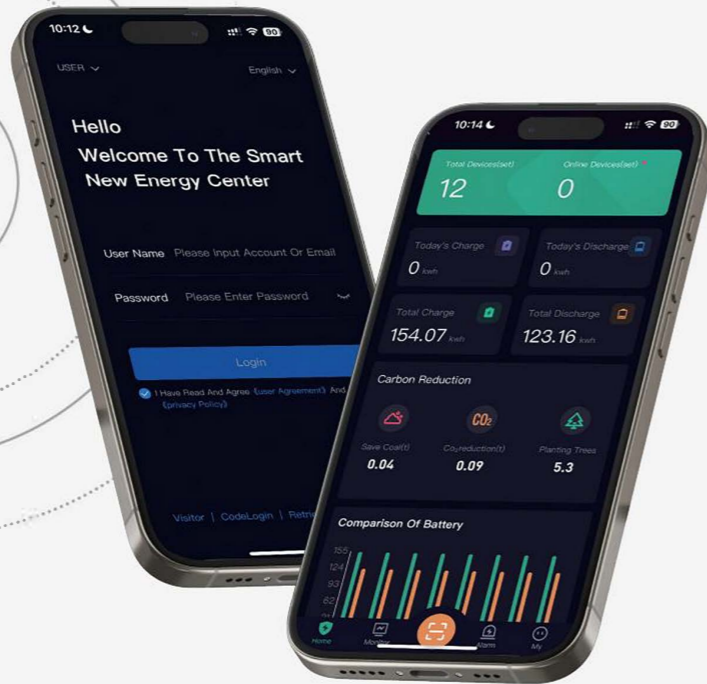


▼ 2MWh



# GENIXGREEN CLOUD

Fully Intelligent App Remote Control Monitoring System



## DOWNLOAD OUR APP

No matter where you are, our PC and mobile phone platforms allow you to monitor energy information in real time anytime, anywhere, ensuring that you always have key data in hand without worrying about missing it.



ANDROID



IOS

## Advantages of GENIXGREEN WIFI & APP

### 1. Remote OTA upgrade:

Based on big data technology, in-depth analysis of energy usage status and regional differences provides accurate support for product optimization and global sales.

### 2. Remote debugging and configuration:

Using the remote debugging function, you can easily configure 139 parameters of the device independently, just like sitting in the office operating the host computer, significantly reducing product operation and maintenance costs.

### 3. Intelligent dynamic data analysis:

Based on big data technology, in-depth analysis of energy usage status and regional differences provides accurate support for product optimization and global sales.

### 4. Real-time warning and response:

Receive real-time warning information of products in a timely manner, discover and quickly solve problems in advance, ensure a seamless user experience, and further improve product quality and service levels.

### 5. One-click network configuration:

Conveniently complete the device's WiFi online configuration through APP or mobile hotspot, simplifying the operation process and improving user convenience.

### 8. Hierarchical management:

Flexibly manage dealers and equipment through hierarchical division and authority management, and support unified management of multiple brands and dealers on the same platform.

### 7. Innovative client APP:

Design a beautiful and simple interface, greatly improve user operability and experience, and help the product move towards international branding.

### 6. Global node deployment:

Nodes are set up in more than 40 countries around the world to provide stable and reliable service support for global product distribution.

