



# Company Profile

One-Stop Zero-Carbon Energy Solution Provider

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# About Q-SUN



## Q-SUN Group

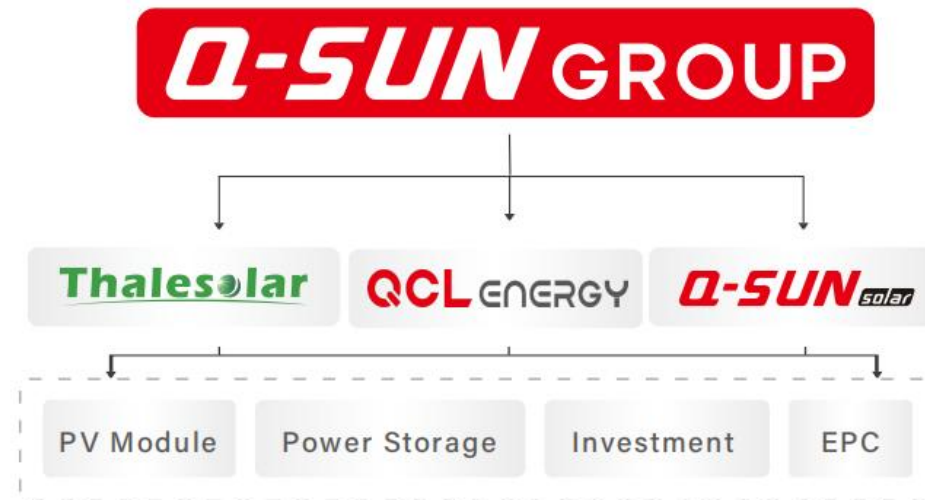
**11** Years of Solar Module Manufacturing

**2** Production Facilities Worldwide

**4** GW Annual Capacity

**1** Million+ Users in 50+ Countries

**Global Leader in Clean Energy Solutions**



Annual Capacity

**4** GW +

Production Base

**2**

Covered Countries

**50**

# About Q-SUN



## About US

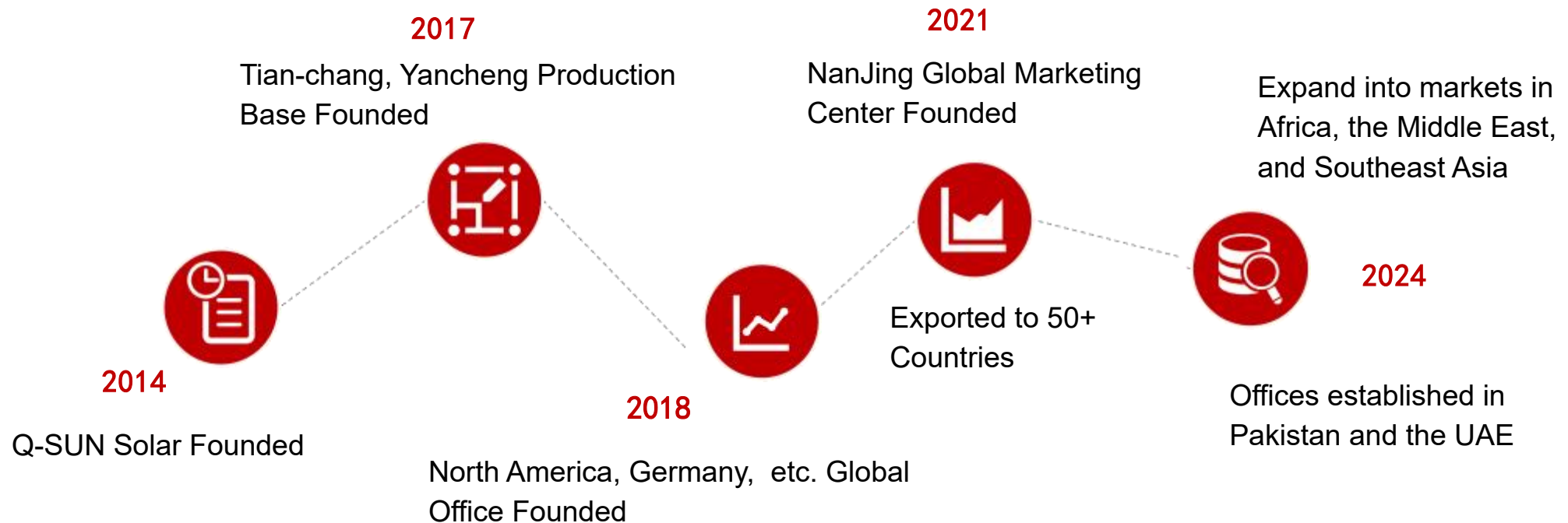
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(Q-Sun solar Dongtai Production Base, covering a total area of 100 acres)

## Development History

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## Global Brand Layout

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# About Q-SUN



## Certificates & Certifications

### Certified Smart Manufacturing Quality Assurance by Leading Institutions:

- CQC Certification
- TÜV Rheinland Certification
- CE Certification
- Fire Resistance Uni Class1
- ISO Certification
- TÜV (including Salt Spray, Ammonia Resistance, Sand Dust)
- IECEE Certification
- MCS
- INMETRO
- EPD (Norway)





## Technological Development

- High-efficiency automated production line
- From PERC to TOPCon technology and now to BC technology, Q-SUN Solar has consistently remained at the forefront of solar technology advancements.

### PERC

23.47% world efficiency record of PERC (2021)

### TOPCon

Since 2018, TOPCon technology has been widely applied, achieving a cell efficiency of up to 25.9%.

### BC

Cell efficiency up to 27.09%. Power record up to 730W





## Q-SUN Solar Module Series

### Residential



#### Onyx Series

Full Black 420-460W



### C&I

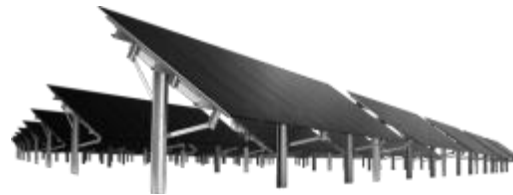


#### Mercury Series

TOPCON 460-720W



### Utility



#### Nebula Series

BC 450-670W



### High-Altitude

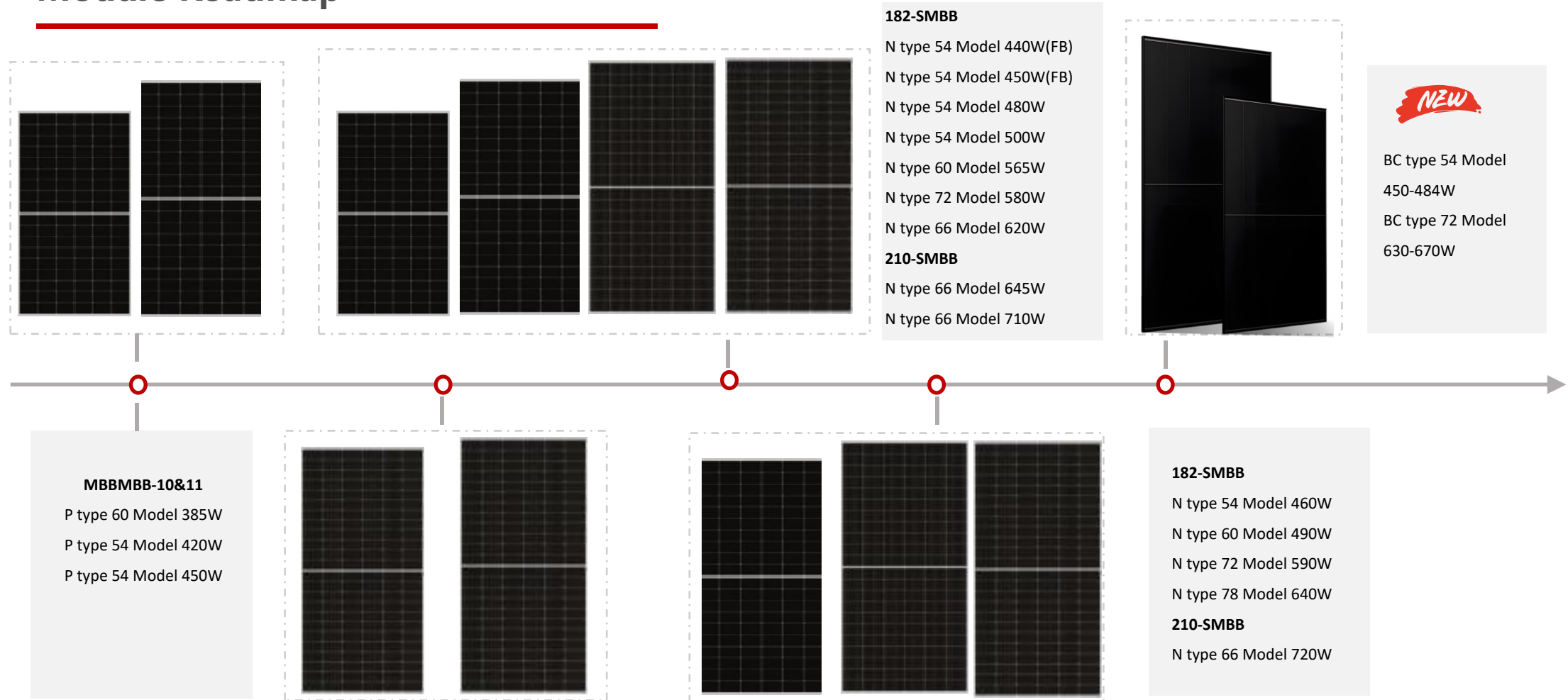


#### Hima Series

440-460W / 570-590W



## Module Roadmap

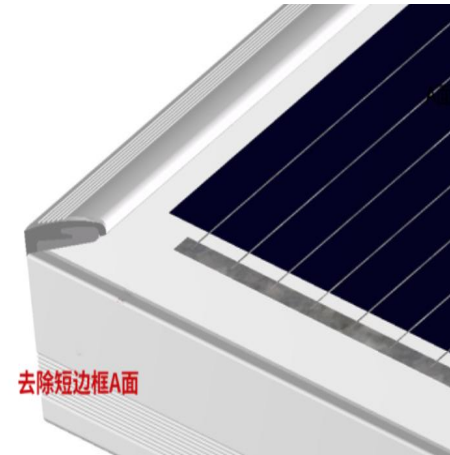


## Lower Temperature Coefficient

Temperature Coefficient	
Short Circuit Current(Isc)	+0.04%/°C
Open Circuit Voltage(Voc)	-0.25%/°C
<b>Nominal Max. Power(Pmax)</b>	<b>-0.29%/°C</b>
NOCT	42 ±2°C

- The peak power temperature coefficient is **-0.29%/°C**, compared to the industry standard for N-type mainstream cells at -0.30%/°C.
- Q-SUN SOLAR module performance is more stable in complex climatic conditions.
- Low temperature coefficient effectively enhances the module power generation performance in high-temperature environments during summer periods.

## Module Highlights



- Strong waterproofing, dustproofing, sand resistance, and compression resistance ensure normal operation under demanding conditions of water depth, pressure, and temperature.
- Q-SUN SOLAR modules have successfully passed the IEC Mechanical Load Test, which includes a snow load of 5400 Pa and a wind load of 2400 Pa, ensuring their durability and safety.
- Anti-Dust Design for Better Adaptation to Dusty Climates, Reducing Cleaning Costs.

## Core Products-Solar Panels

### Full black series

#### Topcon

#### ONYX Series 430-500w

Bringing on the European market high power and highly aesthetically-pleasing PV panels, Q-SUNSOLAR full-black series modules maxi-mize system power and performance.



## Core Products-Solar Panels

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### Full black series

#### BC Series

- Shadow Power Optimization
- Enhanced Anti-Crack Performance
- Superior Temperature Coefficient
- Improved High-Temperature Suppression
- Higher Power Output
- Lower BOS Costs and Enhanced Aesthetics

Efficiency up to 24.4% First-year power degradation  $\leq 1\%$

Annual power degradation from year 2 to 30  $\leq 0.35\%$





## Core Products-Solar Panels

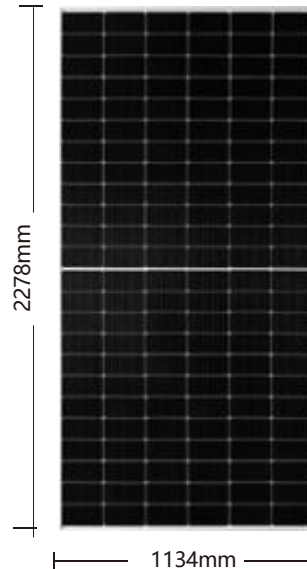
### TOPCon Series

#### MERCURY Series

- N-Silicon reduces LID and LETID: less than 1% first year degradation and 0.4% annual degradation
- Better temperature coefficient ( $-0.30\%/^{\circ}\text{C}$ )
- Excellent low irradiance performance
- 30 years power output warranty

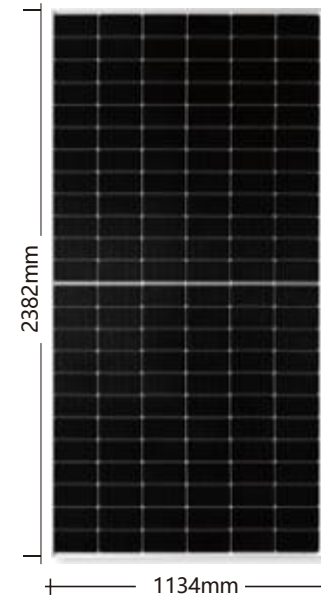
**555-590W**

Mono/Bifacial Modules



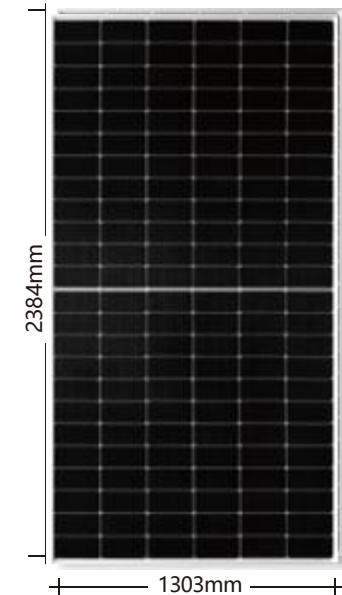
**600-635W**

Mono/Bifacial Modules



**690-720W**

Mono/Bifacial Modules



## Core Products-Solar Panels

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### Hima Series

- High efficiency N - type Double glass Hima Module
- Stronger properties, PID resistance, reduced hot spot loss
- Front Load Capacity 10000 Pa; Back Load Capacity 8500 Pa
- Through Hail Testing: 45mm Diameter, Impact Speed 30.7m/s
- 400 thermal cycles from 85°C to -40°C
- Bifacial module, more power generation

## Core Products-Residential Energy Storage System



## Core Products-Commercial and Industrial Energy Storage System



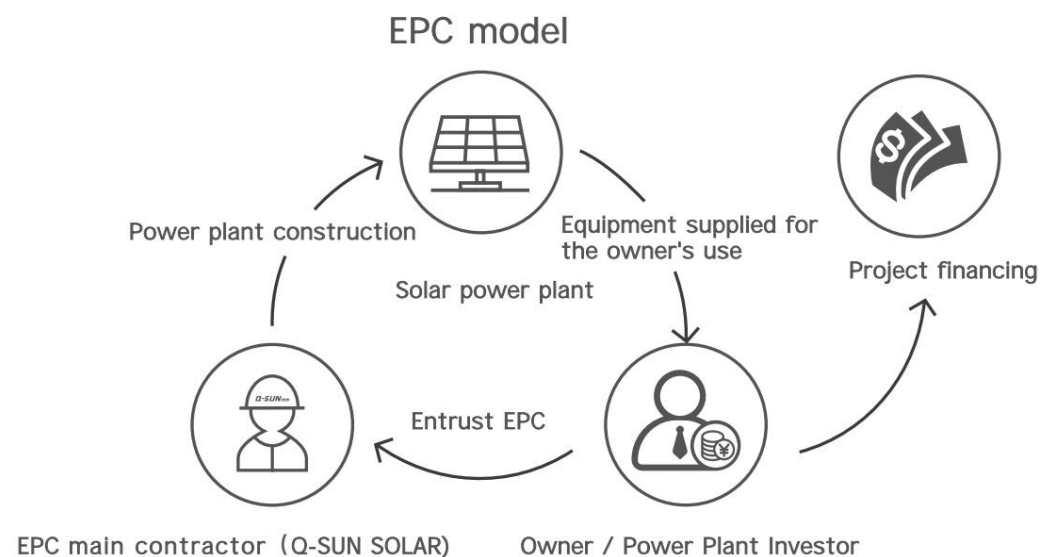


# I Product and Project Cases



## One-stop power station solutions

Q-SUN SOLAR leverages its industry chain advantages to provide high-performance modules and comprehensive solutions for power stations. From site selection to design, construction, and maintenance, the company uses intelligent management and digital methods to ensure maximum returns for investors.



# Product and Project Cases

**Q-SUN** solar



**8MW ▲**

**Anhui Transportation Holding Group Expressway Project**

Address: Anhui, China

Type: Distributed



**3MW ▲**

**Guangdong Foshan Yineng Project**

Address: Foshan, China

Type: Distributed



**3.2MW ▲**

**Jiangsu Chengqing New Energy Project**

Address: Yancheng, China

Type: Distributed



**6MW ▲**

**Anhui Yingfa Group Project**

Address: Chuzhou, China

Type: Distributed



**1MW ▲**

**Anhui Lai'an Shenzhou Spaceship Project**

Address: Lai'an, Anhui, China

Type: Distributed



**6MW ▲**

**Nanjing Ningshun Group Project**

Address: Nanjing, China

Type: Distributed



**1.16MW ▲**

**Nanjing Municipal Government Offices Administration Project**

Address: Nanjing, China

Type: Distributed



**230KW ▲**

**Sanjie Town Project in Mingguang City**

Address: Chuzhou, China

Type: Distributed

**Power Station Project Case**



# Product and Project Cases



## Full Black Module-Residential scene





# Brand and Image



## Global Exhibition



# Global Exhibition

**Q-SUN** solar

## Global Exhibition

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# Brand and Image



## Public Charity Activities

Q-SUN Solar, in collaboration with Myanmar's energy company SANDISOLAR and several partners in the solar industry, has launched a charitable initiative aimed at providing assistance to areas in Myanmar affected by flooding. The campaign has donated 5,000 supplies, demonstrating the company's commitment to social responsibility and sustainable development. This initiative also reflects Q-SUN Solar's vision of making a positive impact on society through the renewable energy sector.



“ရေဘေးအန္တရာယ် စုပေါင်းကူ”

SANDISOLAR+

မှကြီးမှူး၍

**Q-SUN solar**

ဦးဆောင်ပြီး

SANDISOLAR<sup>®</sup> Sunnix Energy  
GROWATT ZEYANG  
Deye Hailei  
SUNG MBO  
JUST

စက်ရုံတို့နှင့်အတူ

ခိုင်နှုန်း ၁၀  
ဖောင်စေ့ရင်း  
ကို သိန်း(5000)တန်ဖိုးရှိသော...



**Thanks for watching!**

One-Stop Zero-Carbon Energy Solution Provider