Smart Storage
Safe Power
Sustainable Future

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Wenergy Storage

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WENERGY

Energy Storage Portfolio

Innovative Solutions for Global Energy Challenges

Wincle Energy Pte. Ltd.

About **Wenergy**

1 Headquarter in Singapore

5 Global Branches

15Years Battery Cell Manufacturing

15GWh Annual Capacity

660,000+m² R&D and Production Base

60+ Countries / Regions Exported To
(30+ Countries in Europe)

China USA UK Germany Italy Netherlands Austria Czechia Poland Romania
Bulgaria Hungary Australia South Africa Zimbabwe Chile Indonesia Vietnam Philippines .....

Focus on Innovation, Full-Chain Layout

From Cathode Materials and Battery Cells to Modules and Smart ESS Solutions

R&D Production Bases


Aerial View


Integration Workshop


Cathode Material Production


Battery Cell Manufacturing


Battery Pack Assembly

BESS Integration & Commissioning

Global Service Network

- **On-Time Delivery**
- **Hassle-Free After-Sales Service**
- **Fast and Responsive Technical Support**

Offices

Singapore, China, USA, Germany, Italy, Chile

Overseas Warehouse

Netherlands

20+ Industries Served with Tailored Solutions

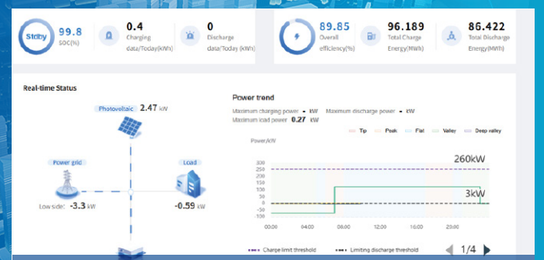
(Cement Industry, Industrial Manufacturing, Textile Industry, Electronic Industry, Environmental Protection Industry, Paper and Printing Industry, Data Centers…)

200+ Projects on Track

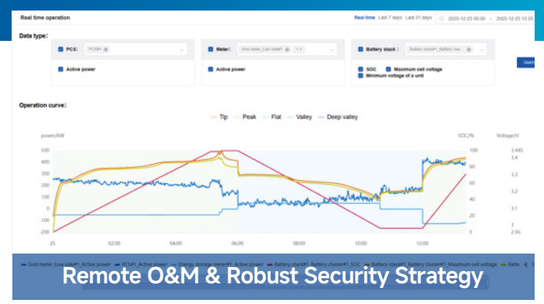
WENERGY

Wenergy Solutions

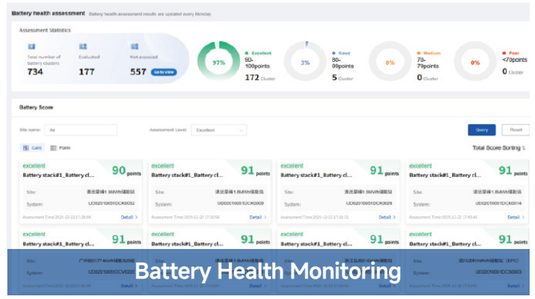
- **PV+Storage Integration**
- **Frequency Regulation**
- **Backup Power Supply**
- **Peak-Valley Arbitrage**



Multiple Operational Strategies Supported



Remote O&M & Robust Security Strategy



Battery Health Monitoring

Software-Defined Energy Management

*Enables integration with customer-owned EMS systems.
*Real-Time Price Capture & Automated Trading (Local Market Tuned)

Cloud-based BMS Optimization

- Dual-processor architecture
- 4KHz real-time monitoring
- Cloud-based balancing optimization
- 90% diagnostic coverage

Multi-protocol Compatible EMS

- AI-powered energy forecasting
- Open EMS API integration
- 100+ protocol support
- Millisecond-level response

Unified Control Platform

- Remote monitoring & diagnostics
- Cross-platform mobile access
- Health & performance analytics

Global Compliance

Globally Certified Excellence in C&I Energy Storage Solutions

Global Certification	UN38.3	American Standard	UL 1973 UL 9540 UL 9540A FCC Part 15B NFPA 69
European Standard	REACH IEC62619, IEC60730, IEC61000, IEC63056, IEC62477, IEC62933, IEC60529		ISO13849 RF/EMC
Grid-connected Certification	VDE 4105 VDE 4110 VDE 4120 G99 CEI 0-16 CEI 0-21 EN 50549-1 EN 50549-10 UNE 217002 UNE 217001		
	TOR Erzeuger Polish Grid Code A3 NTS 631		

Application **Cases**

CEEC-CGGC Group Project Cluster

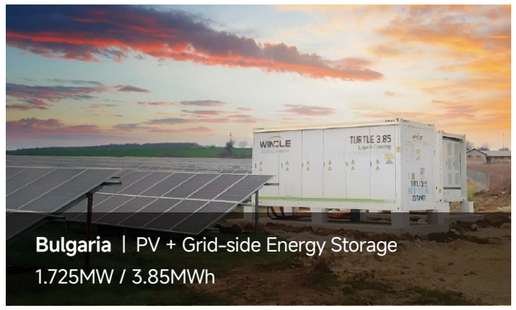
CGGC-Laohekou Cement ESS Project
10.2MW / **20.64**MWh

CGGC-Jiayu Cement ESS Project
10.2MW / **20.64**MWh

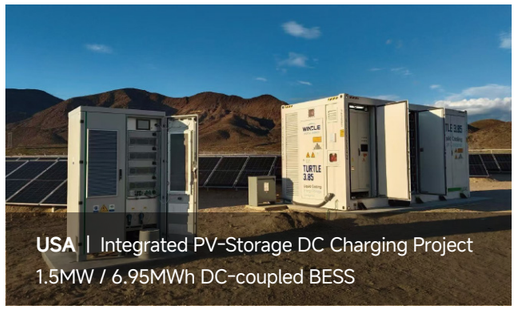
CGGC-Yicheng Cement ESS Project
13.6MW / **27.52**MWh

CGGC-Zhongxiang Cement ESS Project
6.9MW / **13.76**MWh

CGGC-Gezhouba Special Cement ESS Project
5.725MW / **11.44**MWh



Bulgaria | PV + Grid-side Energy Storage
1.725MW / 3.85MWh



USA | Integrated PV-Storage DC Charging Project
1.5MW / 6.95MWh DC-coupled BESS

Zambia | PV-Storage-Diesel Off-Grid Operation
3.45MW / 7.7MWh

Zimbabwe | PV-Storage-Diesel Off-Grid Operation
12MW / 24MWh

Latvia | Grid-side Energy Storage Project
3MW / 6.17MWh

Eastern Europe | PV + Industrial Energy Storage Project
5MW / 20MWh

Germany | PV + Industrial Energy Storage Project
47.7MWh

Bulgaria | PV + Energy Storage Project
1MW / 2.31MWh

Bulgaria | PV + C&I Energy Storage Project
0.875 MW / 1.8 MWh

Bulgaria | C&I Energy Storage Project
3×125kW / 289kWh

Netherlands | C&I Energy Storage Project
83*258kWh (Total 21.4MWh)

Netherlands | C&I Energy Storage Project
20MW / 41.28MWh

Austria | C&I Energy Storage Project
1.75MW / 3.86MWh

Austria | C&I Energy Storage Project
2×125kW / 289kWh

Poland | C&I Energy Storage Project
2*125kW / 258kWh

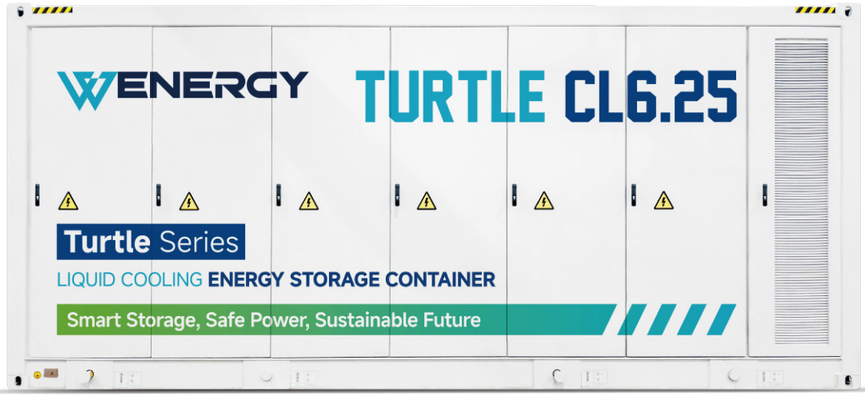
China | Mobile Energy Storage Project
16.7MW / 34.7MWh

Wenergy **Products**

Turtle Series Container ESS

0.9MW / 1.67MWh | 1MW / 2.089MWh | 1MW / 2.5MWh | 3.85MWh / 5MWh / 6.25MWh

in a 20-ft Container



◆ Applications

Utility-Scale Renewable Integration

Industrial & Commercial ESS

Remote/Off-Grid Power

Emergency Energy Storage

◆ Key Highlights

Reduced Cost

· One-stop system, easy install & low maintenance
· Large module design, 50% more efficient

Safety

· Balanced batteries for longer life
· Dual fire suppression for extreme safety

High Efficiency

· 1500V platform, 89% RTE efficiency
· C4H anti-corrosion, 15+ years lifespan

Smart

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◆ Products Parameters 0.9MW / 1.67MWh | 1MW / 2.089MWh | 1MW / 2.5MWh in a 20-ft Container

AC/DC Integrated Container BESS with Seamless STS & ATS Switching

	Model	Turtle CL2.5	Turtle CL2.089	Turtle CL1.67
DC side	Battery Type	LFP 314Ah		
	Battery System Configuration	2.507 MWh / 6P416S	2.089MWh/5P416S	1.67MWh/4P416S
	DC Voltage Range	1164.8V ~ 1497.6V		
STS	Rated Power	1000kW		
Transformer	Rated Power	1250kVA (690V / 380V)		
ATS	Rated Current	1600 A		
PCS	Rated Power	225kW*6	225kW*5	225kW*4
Grid / Diesel Generator Connection	AC Input Rated Power	1000kW	1000kW	900kW
	Rated Voltage	380V, 50~60Hz		
PV Connection	AC Input Power	1000kW	1000kW	900 kW
	Rated Voltage	380V, 50~60Hz		
Load Connection	AC Output Rated Power	1000kW	1000kW	900 kW
	Rated Voltage	380V, 50~60Hz		
System	IP Protection Level	IP54 (Battery Container)		
	Anti-corrosion Level	C4H		
	Cooling Type	Intelligent Liquid Cooling (with Auxiliary Heater)		
	Operating Temperature Range	-35°C~55°C		
	Operating Altitude	≤2000m (> 2000m Derating)		
	Communication Interfaces	CAN, RS485, Ethernet		
	Dimensions (W*D*H)	6058*2458*2896mm		
	Fire Protection System	Aerosol + Water + Smoke/Temp. Detection + Explosion Venting		
	Weight	27.5t	25t	22.5t

◆ Products Parameters 3.85 / 5.016 / 6.25 MWh

Model	Turtle CL3.85	Turtle CL5	Turtle CL6.25
Battery Type	LFP 314Ah	LFP 314Ah	LFP 587Ah
Rated Energy	3.85 MWh	5.016 MWh	6.25 MWh
DC Rated Power	1925 kW	2500 kW	3125 kW
DC Rated Voltage	1228.8V	1331.2V	1331.2V
DC Voltage Range	1075.2V ~ 1382.4V	1164.8V ~ 1497.6V	1164.8V ~ 1497.6V
DC Efficiency	94%		
IP Protection Level	IP55		
Anti-corrosion Level	C4H		
Weight	≈36t	≈43t	≈52t
Cooling Type	Liquid Cooling		
Noise	<75 dB (1m Away from the System)		
Communication Interface	Wired: LAN, CAN, RS485		
Communication Protocol	Modbus TCP/CAN2.0		
System Certification	IEC 60529, IEC 60730, IEC 62619, IEC 62933, IEC 62477, IEC 63056, IEC/EN 61000, UL 1973, UL 9540A, UL 9540, CE Marking, UN 38.3, TÜV Certification, DNV Certification, NFPA69, FCC Part 15B.		

Stars Series Cabinet ESS

Stars 96/144/192 kWh

Stars 261 kWh (Pro)

Stars 261 kWh

Stars 258/289/385 kWh

◆ Products Parameters 261KWh Multi-Source Integrated BESS (125 kW Hybrid Inverter)

Model	Stars CL261	Stars CL261Pro	Stars CL261STS
Battery Type	LFP 3.2V / 314Ah		
Rated Energy	261.2kWh		
Battery Configuration	1P260S		
DC Voltage Range	650~949V		
Load Power	125kW		
Grid Power	/	207kW	250kW
DG Power	/	207kW	/
PV Input	/	250kW (DC), 10MPPTs (20S) MC4, 150~950V	/
On/Off-Grid Switch Time	/	10ms	
IP Level	IP55 (Complete System)		
Corrosion-Proof Grade	C4H		
Cooling Type	Intelligent Liquid Cooling (with Automatic Refilling)		
Operating Temp. Range	-30°C ~ 55°C (>45°C Derating)		
Operating Altitude	≤2000m (> 2000m Derating)		
Relative Humidity	0–95% (Non-condensing)		
Noise	≤70dB, ≤60dB (Silent Version)	≤75dB	
Communication Interface	LAN / RS485		
Communication Protocol	Modbus, IEC104, MQTT		
Operating Modes	On-Grid, Off-Grid	On-Grid, Off-Grid, On/Off-Grid Switching	
Dimensions (W*D*H)	1012*1350*2270mm (±10mm)	1520*1350*2270mm	
Weight	≤2.5t	≤2.9t	
Fire Protection System	Pack-level Aerosol + Cluster-level Aerosol + Water Fire Suppression (Optional) + Explosion-proof Ventilation (Optional) + Active Early Warning System		
Cycle Life	≥8000 (EoL 70% SOH)		
Certifications	IEC/EN 62619, IEC 60730-1, IEC 62477, IEC 60529, IEC 61000-6-2, IEC 61000-6-4		
Installation	Floor-Mounted		

◆ Products Parameters Stars 96/144/192 kWh

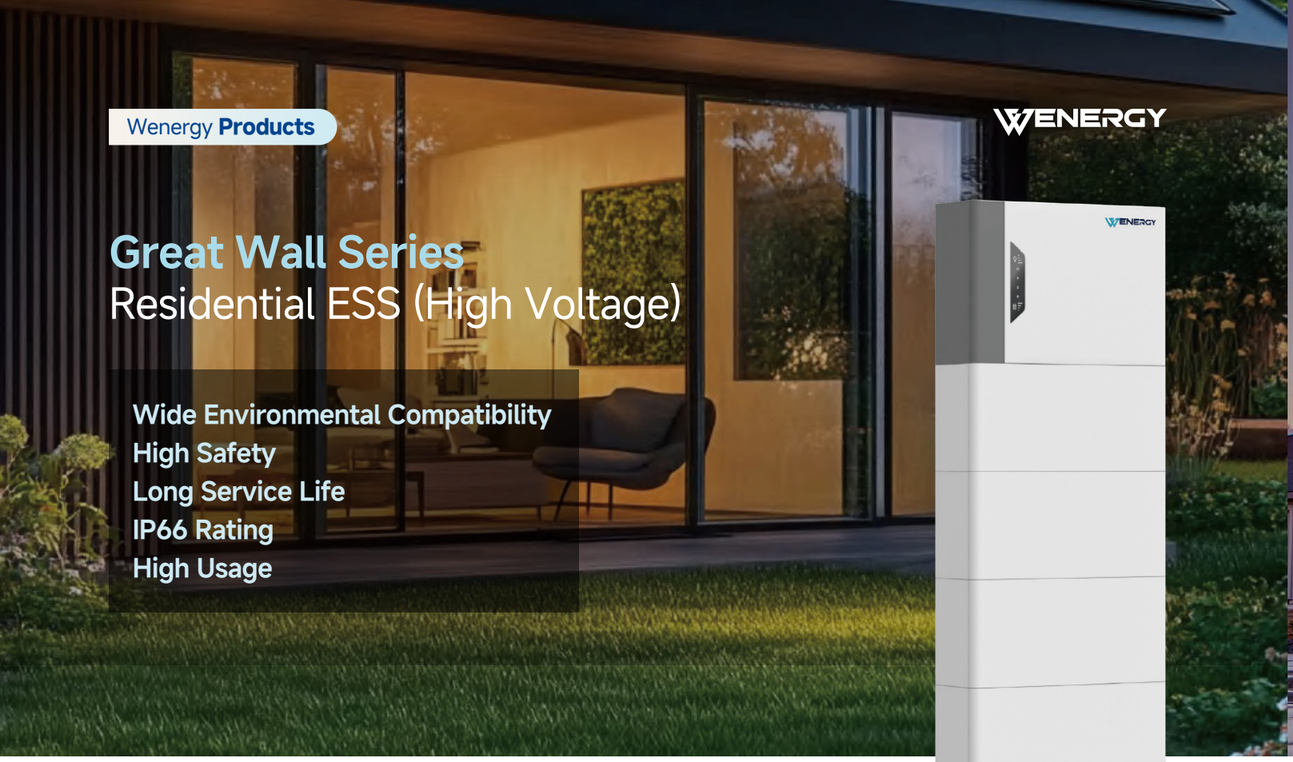
Model	Stars CL192Pro - 125		
Rated Energy	96.46kWh	144.69kWh	192.92kWh
DC Voltage Range	240~350.4V	360~525.6V	480~700.8V
AC Rated Power	125kW		
AC Rated Voltage	400V		
Rated Frequency	50/60Hz		
IP Protection Level	IP55		
Anti-corrosion Level	C4H		
Cooling Method	Liquid Cooling		
Noise	<75dB (1m Away from the System)		
Dimention(W*D*H)	(1800±10)*(1435±10)*(2392±10)mm		
Communication Interface	Ethernet		
Communication Protocol	Modbus TCP/IP		
System Certifications	IEC 62619, IEC 60730-1, IEC 63056, IEC/EN 62477, IEC/EN 61000, IEC/EN 61851, IEC/EN 62311, UL1973, UL9540A, EN 301 489, EN 301 908, CE Marking, UN 38.3, TÜV Certification, DNV Certification		

***Standard:** PCS、DCDC | **Optional:** MPPT (60kW)、STS、ATS、AC EV Charger (22kW*2)

◆ Products Parameters Stars 258/289/385 kWh

Model	Stars CL258Pro	Stars CL289Pro	Stars CL385Pro
Rated Energy	258kWh	289kWh	385kWh
DC Voltage Range	720~1000V	720~1000V	960~1401.6V
Rated Power	125kW	125kW	/
AC Rated Voltage	400V	400V	/
Rated Frequency	50/60Hz	50/60Hz	/
IP Protection Level	IP55		
Anti-corrosion Level	C4H		
Cooling Method	Llquid Cooling		
Noise	<75dB (1m Away from the System)		
Dimention(W*D*H)	(1588±10)*(1380±10)*(2450±10)mm		1578mm*1380*2500mm
Communication Interface	RS485/CAN		
Communication Protocol	Modbus TCP/CAN2.0		
System Certification	IEC 62619, IEC 60730-1, IEC 63056, IEC/EN 61000, IEC/EN 62311, IEC 60529, IEC 62040 or 62477,EN 301 489, EN 301 908, ISO 13849, RF/EMC, UKCA (IEC 62477-1), UKCA (CE-EMC Transfer), UL1973[1], UL9540A[1], UN 38.3		

[1]. UL1973 and UL9540A are for Stars CL385Pro only.



Great Wall Series
Residential ESS (High Voltage)

- Wide Environmental Compatibility
- High Safety
- Long Service Life
- IP66 Rating
- High Usage

◆ Products Parameters

Model	GW-(7.6~22.7)-H-8K	GW-(7.6~22.7)-H-10K	GW-(7.6~22.7)-H-12K
Battery System Energy	7.6 / 11.4 / 15.2 / 19 / 22.7kWh		
Number of Battery Modules	2 / 3 / 4 / 5 / 6		
Rated Battery Voltage	204.8 / 307.2 / 409.6 / 512 / 614.4V		
Recommended Max. PV Input Power	12kW	15kW	18kW
Recommended Charging/Discharging Current	18.5A		
Max. Charging/Discharging Current	37A		
System Dimensions (W*H*D)	670*(1135/1450/1765/2080/2395)*230mm		
System Net Weight	117 / 155 / 193 / 231 / 269kg		
Communication	RS485 / WLAN / Bluetooth / DRY / DRM / Meter, LAN / 4G(Optional)		
Environment			
Operating Temperature Range	Charge：-10°C~50°C, Discharge：-10°C~55°C		
Max. Operating Altitude	< 4000m(> 2000m Power Derating)		
Relative Humidity Range	0~95% (No Condensation)		
Installation	Wall-mounted or Floor-mounted		
Ingress Protection Rating	IP66		
Warranty	10years		
Cycle Life	≥7000 cycles [1]		
System Certification	**Safefy:** IEC/EN 62109-1&-2; IEC62619; CE; UN38.3 **EMC:** IEC/EN 61000-6-1/-2/-3/-4; IEC/EN 61000-3-2/-3/-11/-12; IEC/EN 62920 **Grid Connection Standards:** EN 50549-1:2019/AC:2019; VDE-AR-N 4105:2018; DIN VDE V 0124-100:2020; EN50549-1+EN50438; NA/EEA-NE7 – CH 2020; EIFS 2018: 2; OVE Directive R 25:2020; TOR Erzeuger Type A V1.2		

[1]. 25°C ambient temperature, recommended charging/discharging current.

Great Wall Series
Residential ESS (Low Voltage)

- Highly Integrated Design
- High Reliability
- Wide Environmental Compatibility
- High Usable Energy
- Quick Installation

◆ Products Parameters

Model	GW-(5~20)-L-3.68K	GW-(5~20)-L-5K	GW-(5~20)-L-6K
Battery System Energy	5.1 / 10.2 / 15.3 / 20.4kWh		
Number of Battery Modules	1 / 2 / 3 / 4		
Rated Battery Voltage	51.2V		
Recommended Max. PV Input Power	7.2kW	10kW	10kW
Recommended Charging/Discharging Current	50A/Module		
Max. Charging/Discharging Current	80A	100 / 120 / 120 / 120A	100 / 125 / 125 / 125A
System Dimensions (W*H*D)	725*(740/1040/1340/1640)*230mm		
System Net Weight	75 / 121 / 167 / 213kg		
Communication	RS485 / WLAN / Bluetooth / DRY / DRM / Meter, LAN / 4G(Optional)		
Environment			
Operating Temperature Range	Charge：0°C~50°C, Discharge：-20°C~50°C		
Max. Operating Altitude	< 4000m(> 2000m Power Derating)		
Relative Humidity Range	0~95% (No Condensation)		
Installation	Floor-mounted		
Ingress Protection Rating	IP66		
Warranty	Inverter: 5 years (Expand to 10 Years); Battery: 10 Years		
Cycle Life	≥6000 Cycles [1]		
System Certification	**Safefy:** IEC/EN 62109-1&-2; IEC62619; CE; UN38.3 **EMC:** IEC/EN 61000-6-1/-2/-3/-4; IEC/EN 61000-3-2/-3/-11/-12; IEC/EN 62920 **Grid Connection Standards:** EN 50549-1:2019/AC:2019; VDE-AR-N 4105:2018; DIN VDE V 0124-100:2020; EN50549-1+EN50438; NA/EEA-NE7 – CH 2020; EIFS 2018: 2; OVE Directive R 25:2020; TOR Erzeuger Type A V1.2		

[1]. 25°C ambient temperature, recommended charging/discharging current.

Turtle M Series Mobile ESS | 289 / 418 / 964 / 1446 / 1928 / 3343 kWh

Customizable as Needed

Energy Saving & Eco-Friendly

Intelligent Dispatching

Ready-to-Deploy

Effortlessly Tackling Power Challenges

◆ Applications

Outdoor Activities & Emergency Power Supply	C&I Mobile Energy Storage	Infrastructure Development in Remote Areas

◆ Key Highlights

Flexible Deployment

Paired with a dedicated tractor and custom trailer, the unit can be moved and deployed anywhere, delivering instant power for events, emergency response, and industrial sites.

Intelligent & Safe Operation

Advanced BMS/EMS with liquid cooling ensures efficient, safe performance. Equipped with aerosol fire suppression and multi-sensor detection for all-round protection.

Built for Harsh Environments

Operates from -30°C to 55°C and up to 4,500 m altitude, ensuring reliable power in remote and demanding conditions.

Lower Costs, Higher Efficiency

Self-powered design and optimized energy management cut operating expenses and reduce energy waste.

Lifecycle Service & Support

Pre-Sales Support

Project assessment aligned with European grid requirements
Tailored system design to reduce approval and cost risks

Engineering Expertise

Comprehensive technical support and documentation
Flexible training for faster project deployment
Optimized system design for stable long-term operation

Project Delivery & Commissioning

Europe-based engineering teams ensuring smooth installation
On-site commissioning and grid compliance support
Reduced project delays and faster grid connection

Service & O&M Support

24/7 remote and on-site support across Europe
Fast response to minimize downtime and operational risks
Local spare parts and long-term system reliability

From grid compliance to long-term operation, Wenergy helps reduce project risks and ensures reliable performance across European markets.