



# Battery Energy Storage Solution

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**Shenzhen Gooree Energy Storage Technology Co., LTD.**

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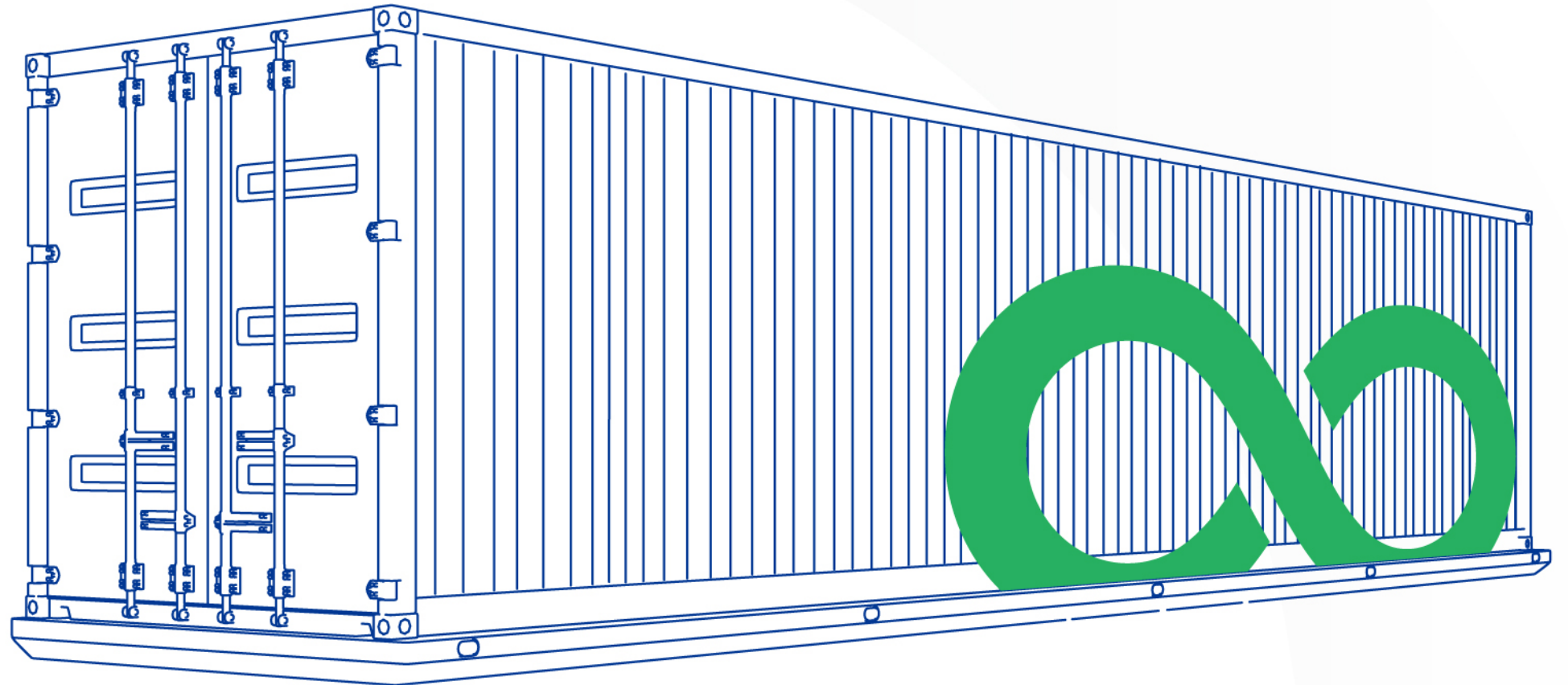
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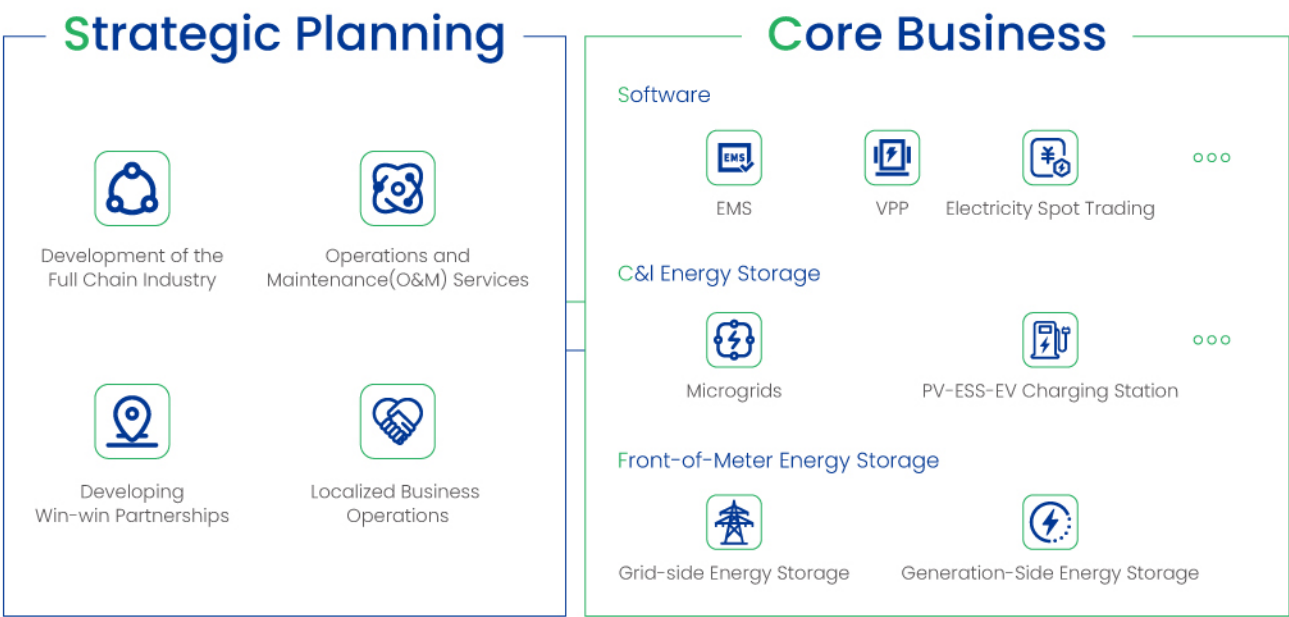
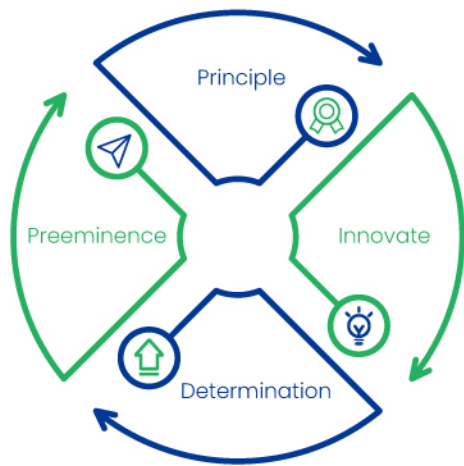
# ABOUT GOOREE



## Green Energy Solution Provider

Shenzhen Gooree Energy Storage Technology Co., LTD. is a green energy technology company focused on energy storage system solutions, and a joint venture subsidiary of BTR New Materials Group Co., LTD.

Gooree focuses on software capabilities, offering energy storage system integration solutions that include both hardware and software services, smart green energy operation solutions, and comprehensive lifecycle service management. Our products are designed for multiple application scenarios, helping users achieve energy independence.



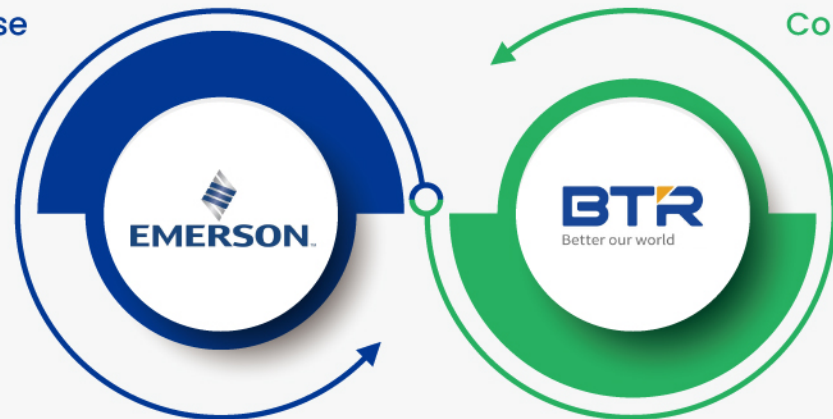


# COMPANY STRENGTH

## Team Expertise

We have assembled a world-class team of experts in power electronics, electrochemistry, computer science, and mechanical automation. Our industry-leading team structure includes a rare combination of specialists, with 5% of our personnel being high-end technical talents, including scientists from the 973 Program and Class A experts of the National Major Talent Project.

### Team Expertise



Power Electronics & Software Capability

### Core Shareholder

Advantage in Electrochemistry

## R&D Capability

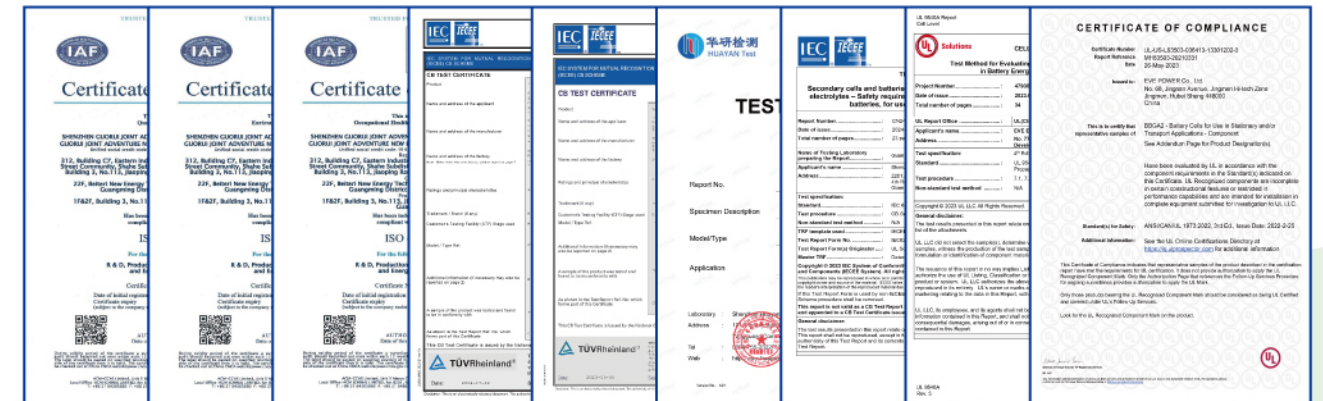
Equipped with a full suite of experimental and testing equipment, our R&D center is capable of conducting extensive research and testing for energy storage devices, battery cells, material inspection, and complete battery systems. In collaboration with BTR, we have set up a joint laboratory focused on the development of innovative energy storage solutions and core system components.

 <b>1</b> R&D Platform	 <b>3<sup>+</sup></b> Collaborative R&D lab	 <b>50<sup>+</sup></b> R&D Engineers	 <b>20 %</b> Of Revenue for R&D
 <b>15<sup>+</sup></b> Invention Patents	 <b>1</b> Industrial Standard	 <b>15<sup>+</sup> years</b> Team Experience	 <b>8<sup>+</sup> GWh</b> Capacity



Intellectual Property

## Honor & Certification



Certification



Enterprise Honor



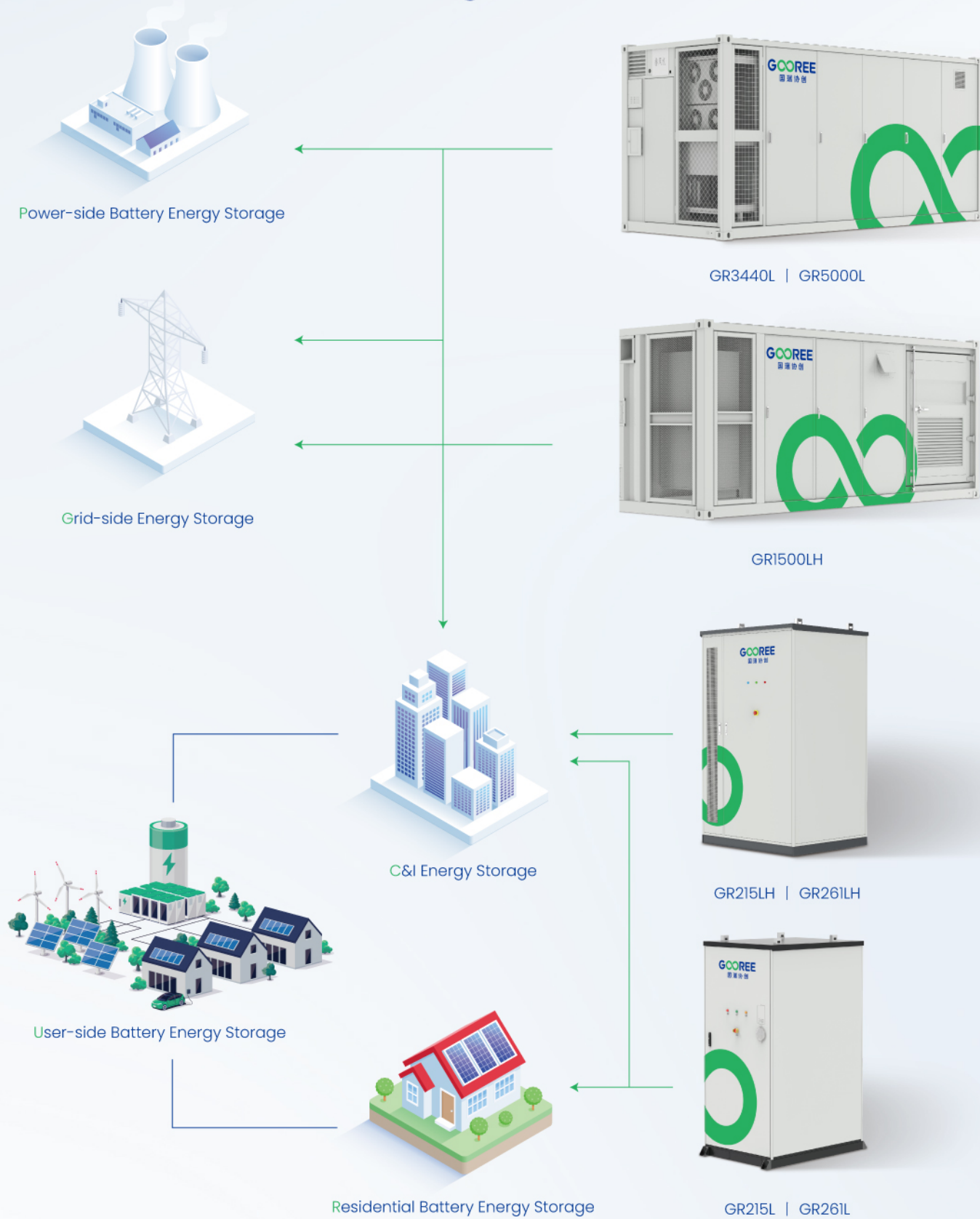
# PRODUCT APPLICATION

Gooree has developed a comprehensive energy storage product matrix that spans three key business areas: Energy Software, C&I Energy Storage, and Front-of-Meter ESS, addressing a wide range of energy storage needs. Our solutions are widely deployed across diverse scenarios, including PV-ESS-EV charging, emergency backup power, microgrids, virtual power plants, and more, delivering reliable energy storage solutions to our customers.

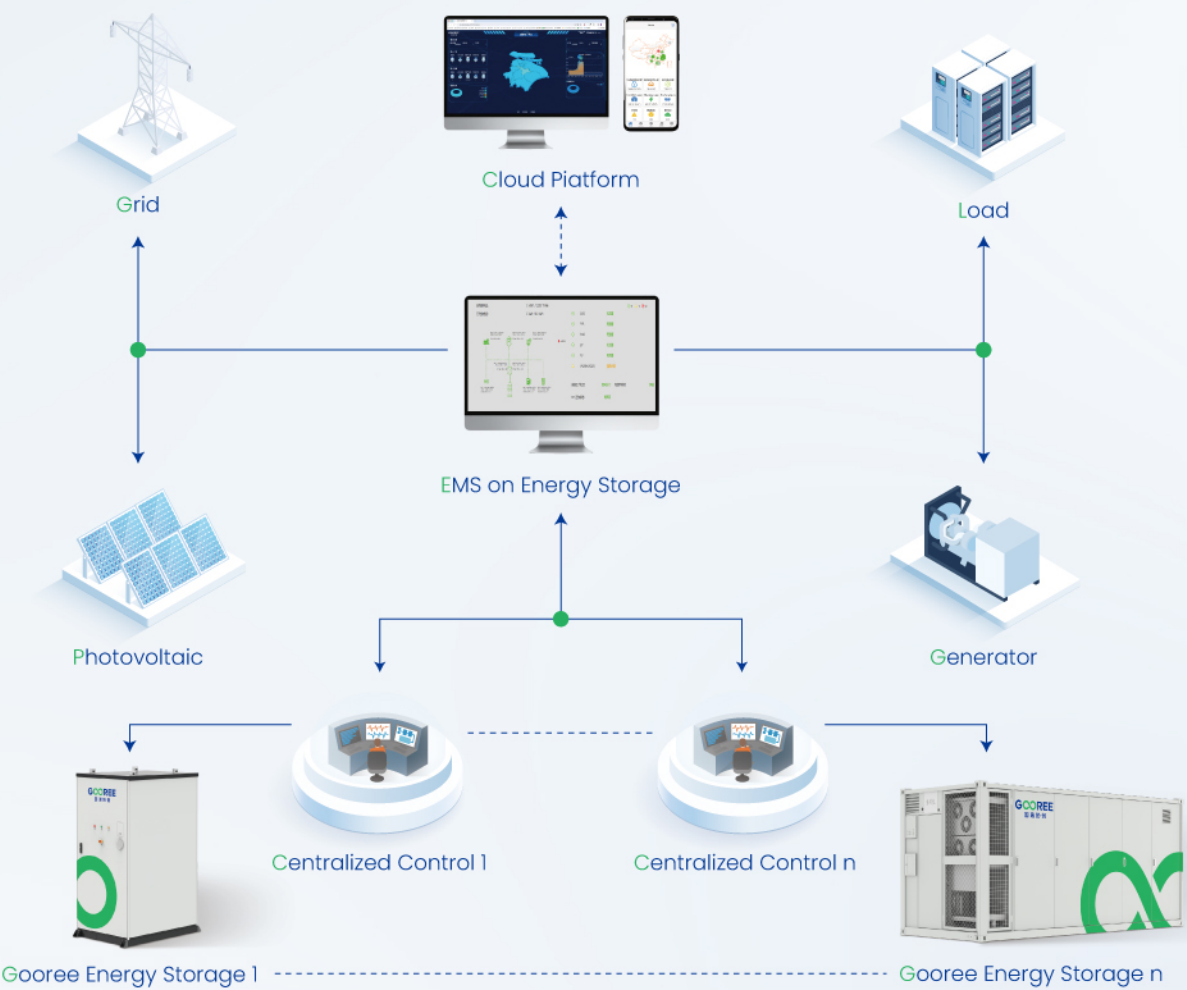
## Microgrid



## Source-Grid-Load-Storage



# REE YUN EMS



## Customization

We provide comprehensive customized services based on the client's usage scenarios and requirements.



## Energy Conservation

Optimize energy consumption through energy demand forecasting and tailored solutions.



## Energy Management

Collect, store, measure, and analyze energy data with data visualization, enabling timely energy management and fault early warning.

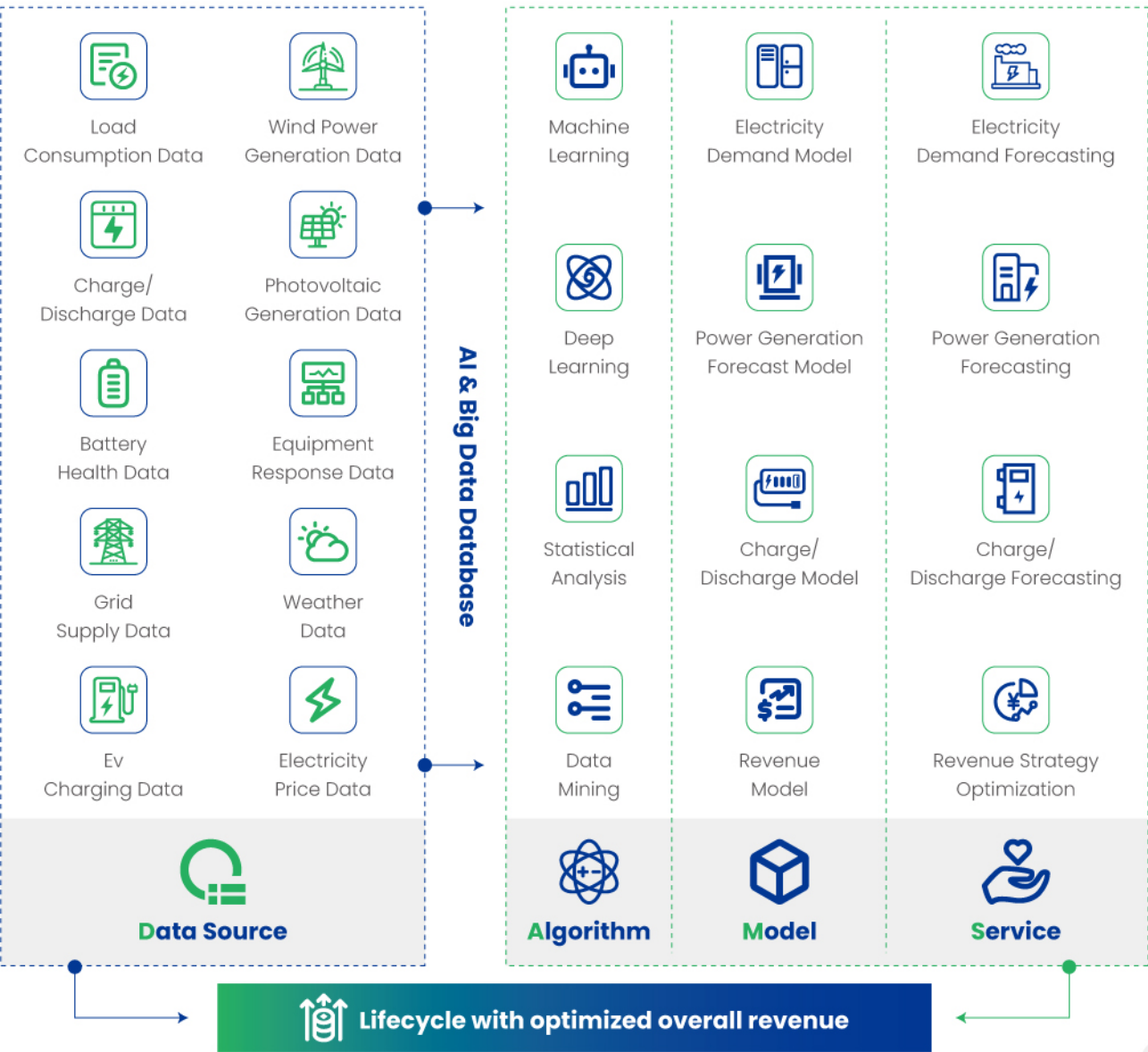


## Multi-Scenario Dispatching

Utilize the cloud platform's intelligent dispatching technology to optimize energy usage across various scenarios, maximizing energy efficiency.



## Big Data & AI in ReeYun EMS





GR3440L  
GR5000L



Features

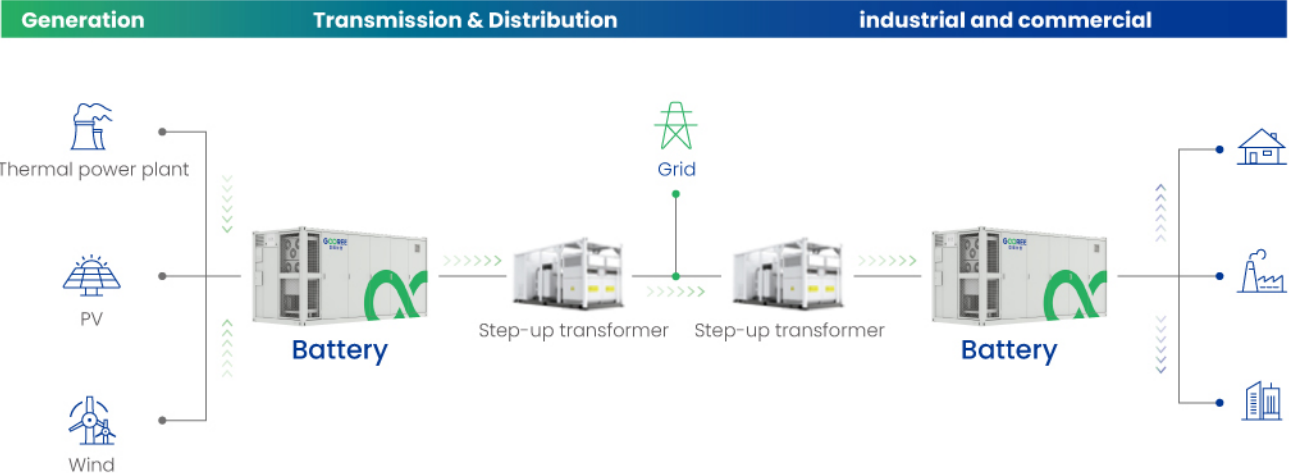
- Ultimate Reliable**

  - ∞ LFP batteries, multiple detection and monitoring
  - ∞ Compliant with international standard certification
  - ∞ High protection up to IP55 and C4 anti-corrosion level
  - ∞ Multi-level fire protection and battery protection
- Maximum Efficiency**

  - ∞ Smart liquid Cooling System for efficient dissipation
  - ∞ Automatic optimal EMS strategy control for best efficiency
  - ∞ Self-developed BMS and EMS, project-level customization
  - ∞ Integrate artificial intelligence algorithms
- Infinite Flexibility**

  - ∞ DC-side system supporting flexible cluster reduction
  - ∞ Supports two DC voltage levels: 1500V and less than 1000V.
  - ∞ Cloud O&M, fast fault analysis and handling
  - ∞ Multiple applications with different AC-side systems

Electrical Diagram



Specification Parameters

Model	GR3440L	GR5000L
DC side		
Cell type	LFP / 280Ah	LFP / 314Ah
Battery capacity (BOL)	3440 kWh	5016 kWh
System configuration	(48S1P) 8S * 10	(52S1P) 8S * 12
Rated DC voltage	1228.8 V	1331.2 V
DC voltage range	1036.8 ~ 1401.6 V	1123.2 ~ 1497.6 V
Charge/discharge rate	≤0.5P	
Cooling Method	Liquid cooling	
System Parameter		
Demension(W*H*D)	6058*2896*2438 mm	
Weight	≤40 T	≤43 T
Cycle performance	≥8000 cycles: @25±2°C, 0.5P, SOH≥70%	
Max System Efficiency	94%	
Fire suppression system	Aerosol / NOVEC1230 / FM200 (Support PACK level) + Flammable Gas Detection + Exhaust + Water Sprinkler System	
Operating ambient temperature range	-30~55°C (-30~-20°C with Heater)	
Max operating altitude	4,000m (de-rate between 2000~4000m.)	
Max IP rating	IP55	
Communication Protocol	Modbus TCP / Modbus RTU / CAN 2.0 / IEC104	
Communication Interface	Ethernet / RS485 / CAN / Domestic 4G	
Remote monitoring	Cloud EMS, Mobile APP	
Max Anti-corrosion Level	C4H	
Certifications	UN3536, UN38.3, IEC62619, UL9540A	UN3536, UN38.3, IEC62619
Application scenarios	Utility, C&I energy storage	

GR215L  
GR261L



Features

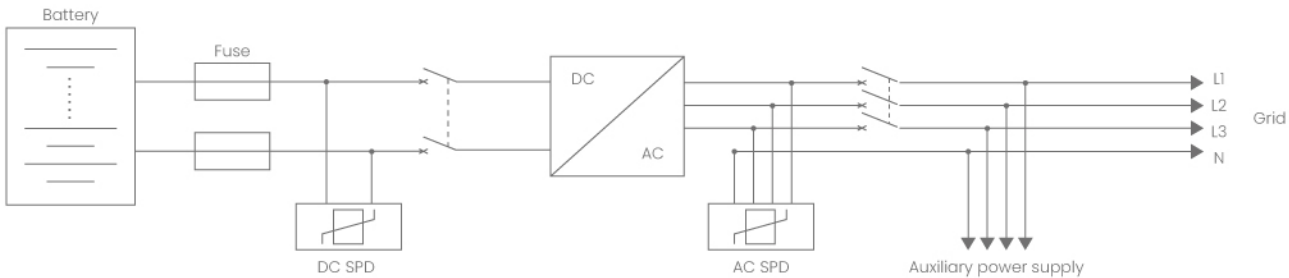
- Ultimate Reliable**

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  - ∞ High protection up to IP55 and C4H anti-corrosion level
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  - ∞ Automatic optimal EMS strategy control for best efficiency
  - ∞ Self-developed BMS and EMS, project-level customization
  - ∞ Integrate artificial intelligence algorithms
- Infinite Flexibility**

  - ∞ All-in-one design, plug-andplay, 50% faster deployment
  - ∞ Scalable parallel support for multiple systems
  - ∞ Cloud O&M, fast fault analysis and handling
  - ∞ Multi-Scene Use: on-grid, off-grid and other modes

Electrical Diagram



Specification Parameters

Model	GR215L	GR261L
DC Side		
Cell type	LFP / 280Ah	LFP / 314Ah (Optional Semi-Solid)
Battery capacity (BOL)	215 kWh	261.24 kWh
System configuration	(48S1P) 5S * 1	(52S1P) 5S * 1
Rated DC voltage	768 V	832 V
DC voltage range	648 ~ 876 V	702 ~ 949 V
Charge/discharge rate	≤0.5P	
Cooling Method	Liquid cooling	
AC Side		
Rated AC power	100 kW	130 kW / 125 kW / 124.9 kW / 100kW / 99.9 kW (Optional)
Rated AC voltage	400 V	400 V
Rated frequency	50/60 Hz	50/60 Hz
AC connection	3P+N+PE	3P+N+PE
System Parameter		
Dimension(W*H*D)	1100*2519*1500 mm	
Weight	≤2500 kg	
Cycle performance	≥6000 cycles: @25±2°C, 0.5P, SOH≥80%	
System Efficiency	≥88% (Including subsidiary Power Consumption)	≥89% (Including subsidiary Power Consumption)
Fire suppression system	Aerosol / NOVEC1230 / FM200 (Support PACK level) + Flammable Gas Detection + Exhaust + Water Sprinkler System	
Operating ambient temperature range	-30~55°C (-30~-20°C with Heater)	
Max operating altitude	4,000m (de-rate between 2000~4000m.)	
Max IP rating	IP55	
Communication Protocol	Modbus / IEC60870-5-104 / 4G (MQTT)	
Remote monitoring	Cloud EMS, Mobile APP	
Certifications	UN38.3, IEC62619, IEC62477, IEC61000, EN50549	
Application scenarios	Industrial and commercial energy storage, back-up power supply, store and trade energy, manage energy sources and tariffs, increase self-sufficiency	



GR1500LH  
GR2000LH



Features

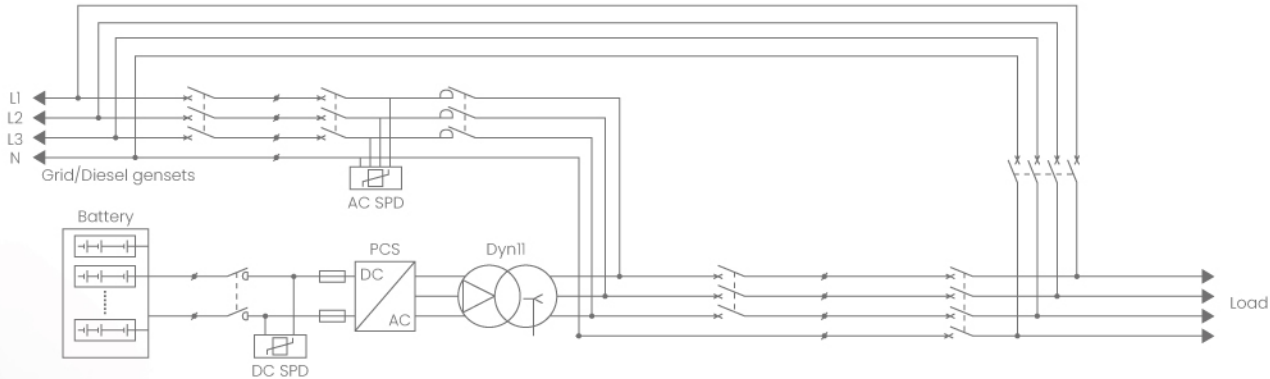
- Ultimate Reliable**

  - ∞ LFP batteries, multiple detection and monitoring
  - ∞ Compliant with international standard certification
  - ∞ High protection up to IP55 and C4H anti-corrosion level
  - ∞ Multi-level fire protection and battery protection
- Maximum Efficiency**

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  - ∞ Automatic optimal EMS strategy control for best efficiency
  - ∞ Self-developed BMS and EMS, project-level customization
  - ∞ Integrate artificial intelligence algorithms
- Infinite Flexibility**

  - ∞ All-in-one design, integrated battery, PCS, MPPT and STS
  - ∞ Scalable parallel support for multiple systems
  - ∞ Cloud O&M, fast fault analysis and handling
  - ∞ Multi-Scene Use: Support PV access and on/off grid switch ≤20ms

Electrical Diagram



Specification Parameters

Model	GR1500LH		GR2000LH	
DC Side				
Cell type	LFP / 280Ah		LFP/314Ah	
Battery capacity (BOL)	1505 kWh		2089 kWh	
System configuration	(48S1P) 5S * 7		(52S1P)5S*8	
Rated DC voltage	768 V		832 V	
DC voltage range	648 ~ 864 V		702~949 V	
Charge/discharge rate	≤0.5P			
Cooling Method	Liquid cooling			
PV Side				
Rated MPPT power	/		500kW	
Number of MPPT inputs	/		10	
PV input voltage range	/		312~500V	
Max PV input current	/		160A*10	
DC bus voltage range	/		600~950V	
AC Side				
Rated AC power	500 kW		500 kw	1000 kW
Max AC power	550 kW		550 kW	1100 kW
Rated AC voltage	400 V			
Max AC current	794 A		/	
Rated frequency	50/ 60 Hz			
AC connection	3P + N + PE			
STS (Optional)	/		600 kVA	1200 kVA
System Parameter				
Dimension(WHD)	6058*2591*2438 mm		6058*2896*2438 mm	
Weight	≤25T			
Cycle performance	≥6000 cycles: @25±2°C, 0.5P, SOH≥80%			
System Efficiency	≥88% (Including subsidiary Power Consumption)			
Fire suppression system	Aerosol / NOVEC1230 / FM200 (Support PACK level) + Flammable Gas Detection + Exhaust + Water Sprinkler System			
Operating ambient temperature range	-30~55°C (-30~-20°C with Heater)			
Max operating altitude	4,000m (de-rate between 2000~4000m)			
Max IP rating	IP55			
Communication Protocol	Modbus, 4G (MQTT)			
Remote monitoring	Cloud EMS, Mobile APP			
Max Anti-corrosion Level	C4H			
Certifications	UN38.3, IEC62619, IEC62477, IEC61000, EN50549			
Application scenarios	On-grid & off-grid, Industrial and commercial energy storage, Micro-grid, Emergency power backup			

GR156LH  
GR261LH



Features

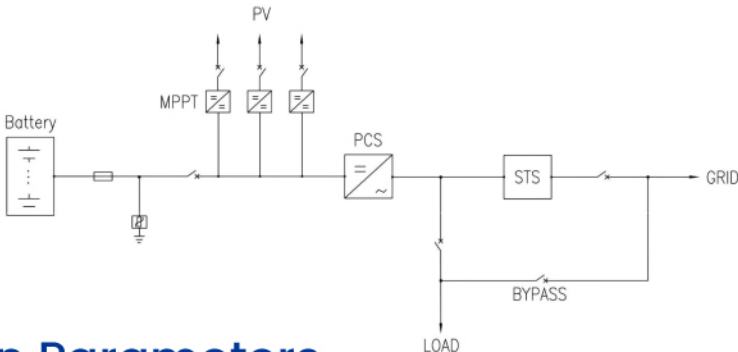
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  - ∞ High protection up to IP55 and C4H anti-corrosion level
  - ∞ Multi-level fire protection and battery protection
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  - ∞ Automatic optimal EMS strategy control for best efficiency
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  - ∞ Integrate artificial intelligence algorithms
- Infinite Flexibility**

  - ∞ All-in-one design, integrated battery, PCS, MPPT and STS
  - ∞ Scalable parallel support for multiple systems
  - ∞ Cloud O&M, fast fault analysis and handling
  - ∞ Multi-Scene Use: Support PV access and on/off grid switch ≤20ms

Electrical Diagram



Specification Parameters

Model	GR156LH	GR261LH
DC Side		
Cell type	LFP/314Ah	LFP/314Ah
Battery capacity(BOL)	156.6kWh	261.24 kWh
System configuration	(52SIP)3S*1	(52SIP)5S*1
Rated Dc voltage	499.2V	832 V
DC voltage range	421.2V~569.4V	702~949 V
Charge/discharge rate	≤0.5P	≤0.5P
Cooling Method	Liquid cooling	
PV Side		
Rated MPPT power	76.8kW	120kW
Number of MPPT inputs	4	2
PV Open-Circuit Voltage	250~850V	200~900V
MPPT voltage range	200~850V	200~850V
Rated voltage	32A*4	600V
PV Start-up Voltage	/	250V
Max PV current	/	100A+100A
AC Side		
Rated AC power	60kw (30kw*2)	130 kW / 125 kW / 124.9 kW / 100kW /
Max AC power	/	99.9 kW (Optional)
Rated Ac voltage	400V/230V	400 V
Voltage range	-20%~15%	/
Rated AC current	/	180 A
Rated frequency	50Hz/60Hz	
AC connection	3L+N+PE	3W+PE/3W+N+PE
Rated STS capacity	/	300kVA
System Parameter		
Demension(W*H*D)	1100*2300*1500 mm	1350*2350*1500 mm
Weight	≤2000 kg	≤ 3200 kg
Cycle performance	≥6000 cycles; @ 25±2°C,0.5P, SOH≥80%	
System Efficiency	≥88% (including subsidiary Power Consumption)	
Fire suppression system	Aerosol/NOVEC1230/FM200 (Support PACK level) + Flammable Gas Detection +Exhaust + Water Sprinkler System	
Operating ambient temperature range	-30~55°C(-30~-20°C with Heater)	
Max operating altitude	4,000m(de-rate between 2000~4000m.)	
IP rating	IP55	
Remote monitoring	Cloud EMS, Mobile APP	
Certifications	UN38.3, IEC62619, IEC62477, IEC61000, EN50549	
Application scenarios	On-grid & off-grid, Industrial and commercial energystorage, Micro-grid, Emergency power backup	



# Typical Cases



## PV Energy Storage



Project Scale: 4MWh  
Product Model: GR215L



## Peak Valley Arbitrage



Project Scale: 24MWh  
Product Model: GR3440L



## Source-side Energy Storage



Project Size: 80MWh  
Selected Product: GR5000A



# CASE COLLECTION



## Disel Generator Hybrid System



Project Size: 3MWh  
Product: Model: GR1500L



## PV-Storage -Charging Integrated System



Project Scale: 215kWh  
Product Model: GR215LH

## Distribution network energy storage



Product Scale: 215kWh  
Product Model: GR215L



## Backup Power Storage for AI Computing Center



Product Scale: 192kWh  
Product Model: GR96A



## Zero-Carbon Industrial Park Projec



Project Scale: 6MWh  
Product Model: GR522L



## Virtual Power Plant



Product Model:  
Gooree VPP System



# PARTNERS



Gooree has always focused on optimizing the supply chain and reducing internal manufacturing costs to stay competitive in an increasingly fierce market environment. For years, we have built strong partnerships with outstanding suppliers and collaborators, ensuring a seamless and efficient value chain. By working closely with these trusted partners, Gooree is able to deliver high-quality energy storage solutions while achieving mutual success and maintaining a competitive edge in the industry.

# OUR SERVICES

## Gooree's Service Strategy



## One-stop Services

