GOOREE CASE RENFERENCE

Gooree Green the Future

GOOREE
国瑞协创

深圳国瑞协创储能技术有限公司

www.gooree.com

Ruiyun EMS Energy Management Platform

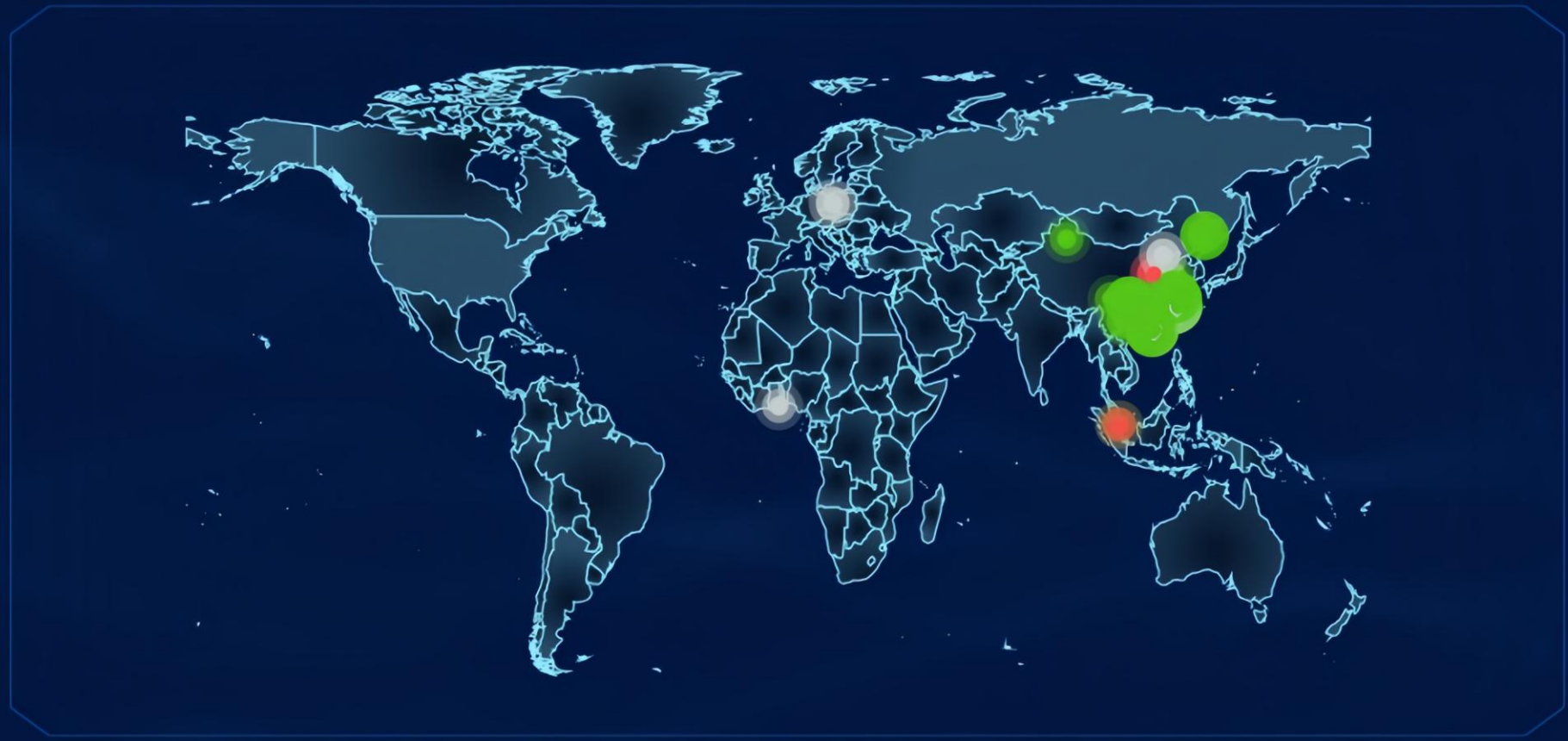
Power station 110

Capacity 122.1 MWh

Ruiyun EMS

Energy conservation

Cumulative Revenue	Reduce CO_2 emission	Coal Savings
2173.27 W¥	25.39 kT	10.18 kT



Site information

Site name	Total Discharge (MWh)	Reduction (T)	Cumulati... (W¥)
	1296.5	1292.6	201.348
	1282.3	1278.5	110.624
	1152.4	1149	96.083
	1048.6	1045.4	87.749
	946.4	943.5	82.248
	927.8	925	79.768

28.3 GWh
Total Charge Volume

25.5 GWh
Total Discharge Volume

153.2 MWh
Daily Charge

104.5 MWh
Daily Discharge

Overview information

Continent/Province

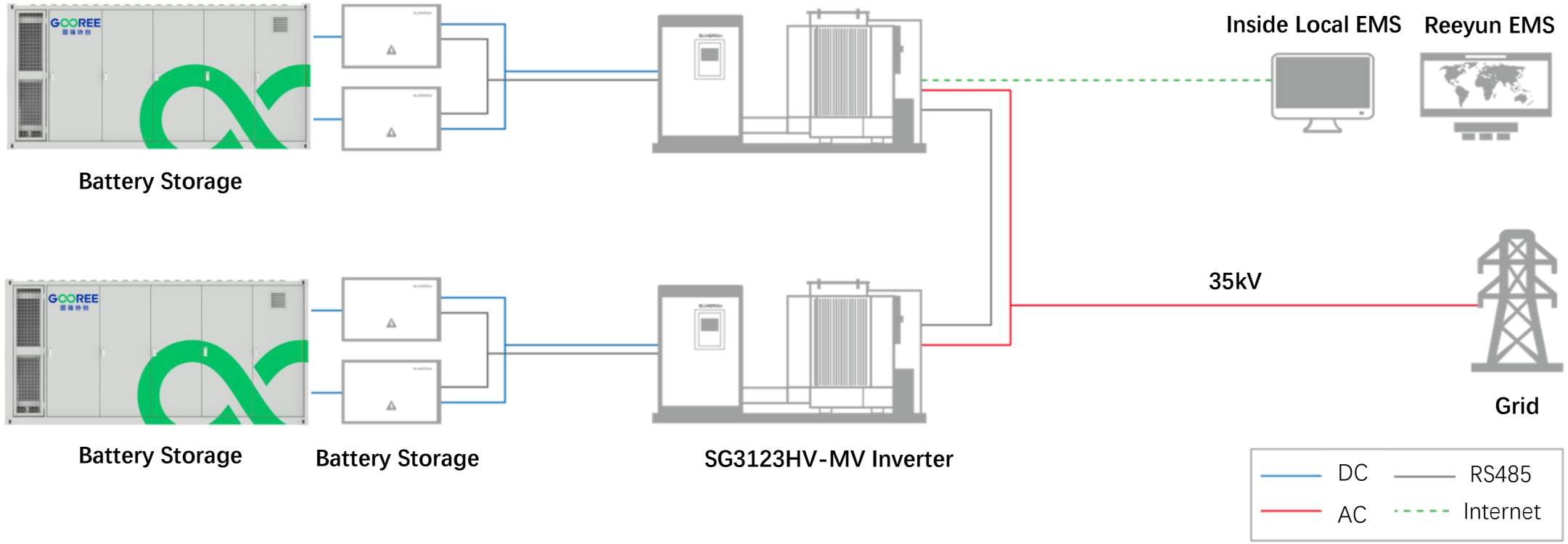
Site name

Ⅰ. Source-side Energy Storage System

Project Value

The intermittency and volatility of wind power and solar energy are significant, which often leads to the phenomenon of 'wind and solar curtailment' in some regions in order to maintain the overall balance of the power system. Electrochemical energy storage, as the 'stabilizer' for renewable energy, can smooth out these fluctuations, not only improving the local consumption capacity of energy but also assisting in the consumption of renewable energy in distant areas.

Topology



GOOREE
Green the Future

Solar Energy Storage Station

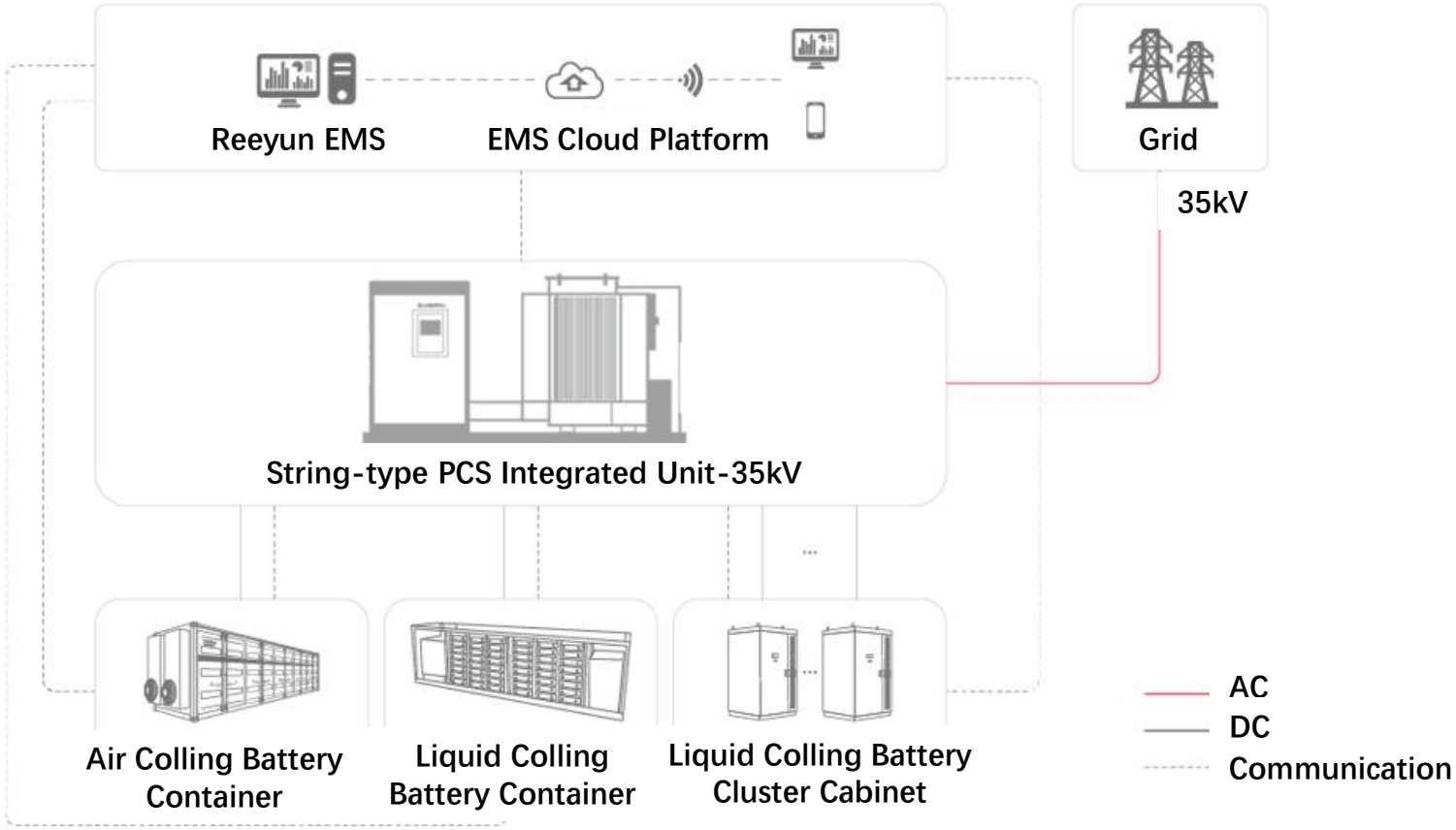
Capacity: 40MW/80MWh
Product Used: GR5000
Location: China Gansu
End User: Huajian Electronic

II . Source-side Independent Energy Storage

Project Value

In areas where transmission corridors are congested, independent energy storage stations can charge during off-peak periods and discharge to the grid during peak demand periods, playing a role in 'peak shaving and valley filling.' This helps optimize the distribution of power flow, alleviates the congestion in transmission lines, and enhances the grid's transmission capacity and operational efficiency.

Topology



GOOREE
Green the Future

Independent energy storage

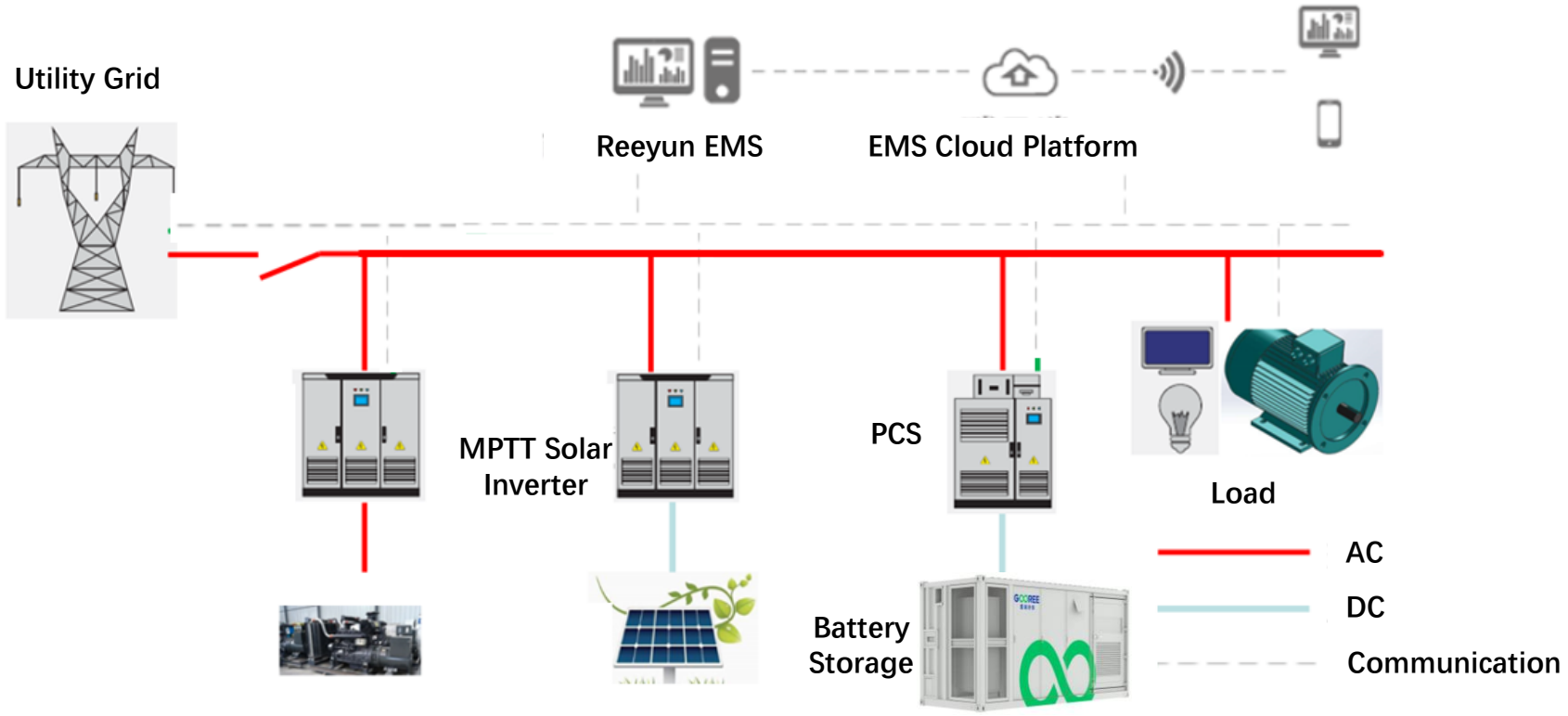
Capacity: 100MW/100MWh
Product Used: GR3420
Location: Chian Anhui
End User: State Grid Corporation of China

III. Off-grid Energy Storage System

Project Value

The solution integrates multiple innovative technologies such as solar power generation, energy storage, and diesel generators. With a flexible combination approach, it uses the MPPT (Maximum Power Point Tracking) module to ensure power generation whenever there is sunlight. The system is equipped with energy storage to enable photovoltaic energy storage and can also utilize the diesel generator for long-duration energy storage, enhancing the reliability and sustainability of the power supply.

Topology



Micro Grid

Capacity: 1.25MW/1.29MWh
Product Used: Customized
Location: Nigeria
End User: /

GOOREE
Green the Future

Micro Grid

Capacity: 500kW/511kWh
Product Used: Customized
Location: Hongkong
End User: /

GOOREE
Green the Future

PV-ESS Micro Grid

Capacity: 50kW/100kWh
Product Used: GR100A
Location: China. Sichuan
End User: /

PV-ESS Energy Storage Micro Grid

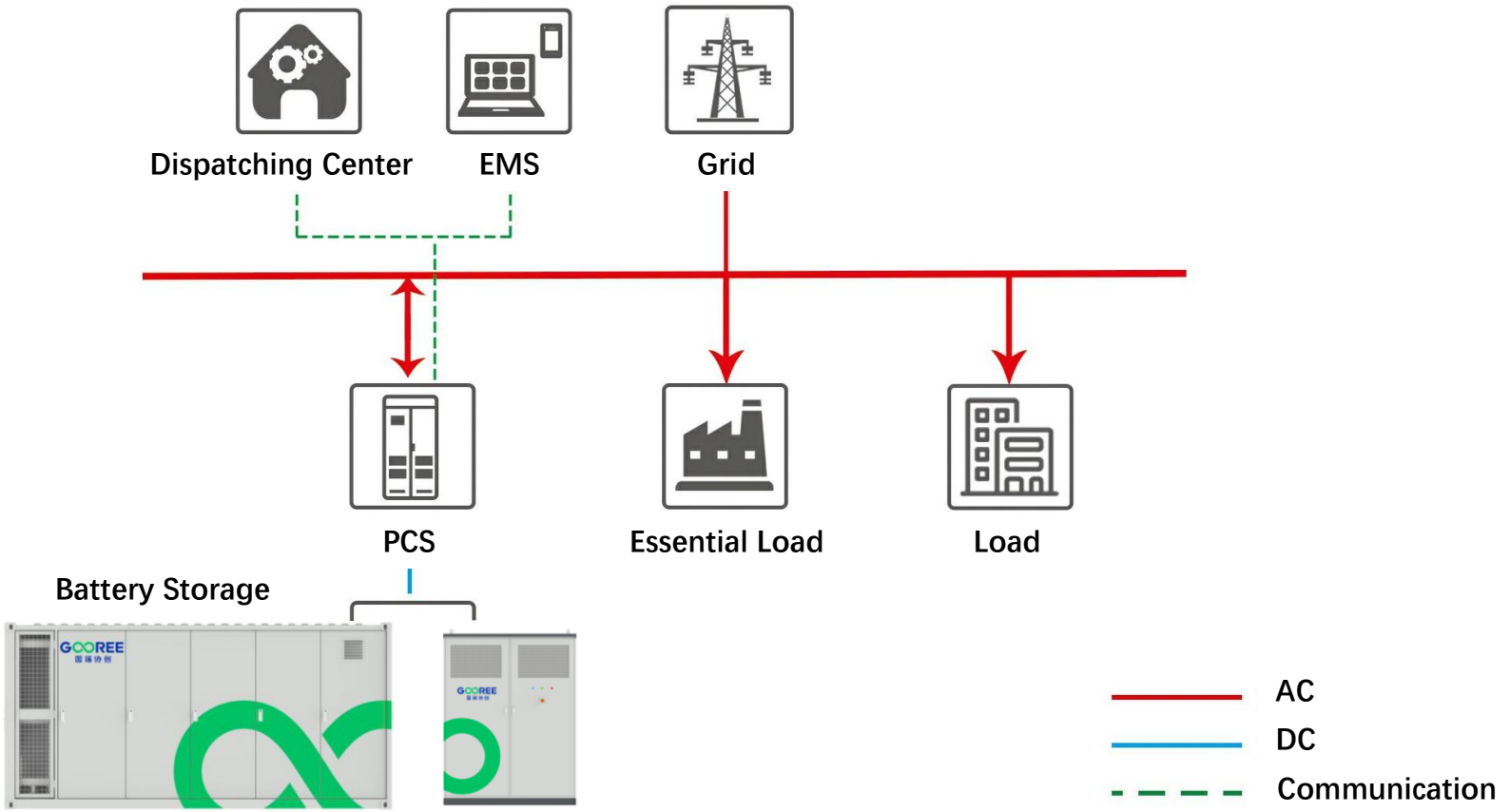
Capacity: 50/100kWh
Product Used: Customized
Location: Hongkong
End User: /

IV. Commercial & Industrial Energy Storage

Project Value

Commercial and industrial users can charge the energy storage batteries at a lower off-peak electricity price when electricity prices are low. During peak electricity price periods, the energy storage batteries supply power to the load, achieving load shifting from peak to off-peak hours and generating profit from the difference in peak and valley electricity prices.

Topology



Peak-shaving Energy Storage

Capacity: 500kW/ 1044kWh
Product Used: GR261L
Location: Sweden
End User: /

C&I Energy Storage

Capacity: 107kW/215kWh
Product Used: GR215L
Location: Slovenia
End User: /

C&I Energy Storage
(On shipping)

Capacity: 130/261kWh
Product Used: GR261LH
Location: The USA
End User: /

PV Energy Storage

Capacity: 2MW/4MWh
Product Used: GR215L
Area: Estonia

Zero-carbon Factory

Capacity: 1MW/2MWh
Product Used: GR522L
Area: China, Hunan

GOOREE
Green the Future

C&I Energy Storage Cabinet

Capacity: 0.64MW/1.29MWh
Product Used: GR430L
Location: China. Zhejiang
End User: Dongmao

GOOREE
Green the Future

C&I Energy Storage Cabinet

Capacity: 0.64MW/1.29MWh
Product Used: GR430L
Location: China. Zhejiang
End User: YuHuan

GOOREE
Green the Future

C&I Energy Storage Cabinet

Capacity: 0.64MW/1.29MWh
Product Used: GR430L
Location: China. Zhejiang
End User: Tianshi

GOOREE
Green the Future

C&I Energy Storage Cabinet

Capacity: 1MW/2.15MWh
Product Used: GR215A
Location: /
End User: Betterlife

GOOREE
Green the Future

C&I Energy Storage Cabinet

Capacity: 3MW/6MWh
Product Used: GR3440L
Location: China Henan
End User: /

GOOREE
Green the Future

C&I Energy Storage Cabinet

Capacity: 1.29MW/2.58MWh
Product Used: GR430L
Location: Chongqing
End User: Oupan

GOOREE
Green the Future

C&I Energy Storage Cabinet

Capacity: 8MW/24.08MWh
Product Used: GR3440L
Location: China. Heilongjiang
End User: HF

GOOREE
Green the Future

C&I Energy Storage Cabinet

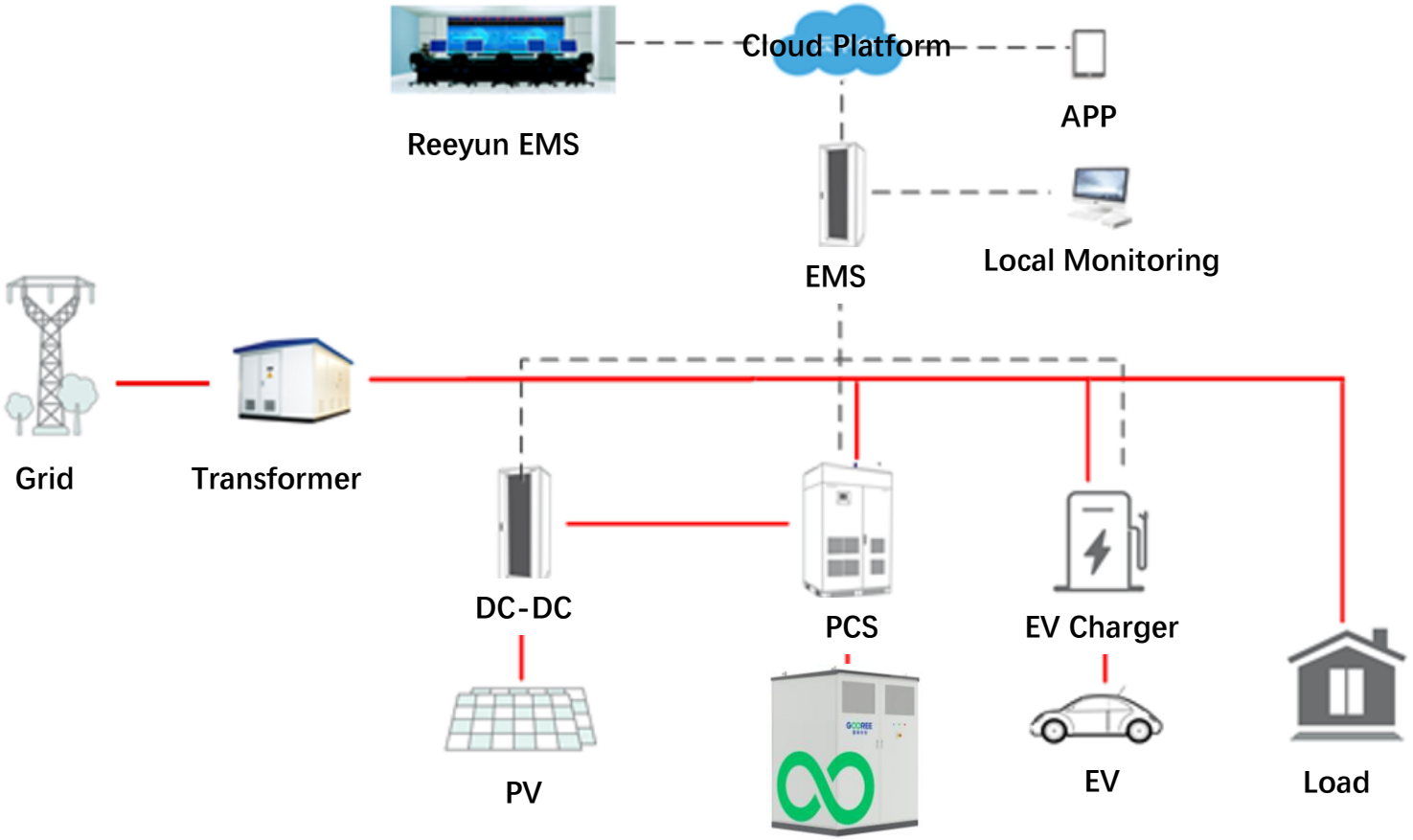
Capacity: 0.86MW/1.72MWh
Product Used: GR430L
Location: Chongqing
End User: Jiawen

V . PV Energy Storage & Charging Integrated System

Project Value

The system mainly consists of four parts: photovoltaic devices, energy storage devices, AC/DC charging piles, and grid connection. The AC grid supplies three-phase 380V AC power to the charging station through a transformer. The photovoltaic and energy storage devices convert electrical energy through converters, working together with the grid to charge electric vehicles.

Topology



GOOREE
Green the Future

C&I Energy Storage

Capacity: 100kW/215kWh
Product Used: EMS for PV-ESS-EV System
Area: Singapore

GOOREE
Green the Future

PV-ESS-EV Energy Storage

Capacity: 215kWh
Product Used: GR215A
Location: China. Shenzhen
End User: /

ESS-EV Energy Storage

Capacity: 645kWh
Product Used: GR215A
Location: China. Shenzhen
End User: /

GOOREE
Green the Future

PV-ESS-EV Energy Storage

Capacity: 215kWh
Product Used: GR215A
Location: China. Shenzhen
End User: /

PV-ESS-EV Energy Storage

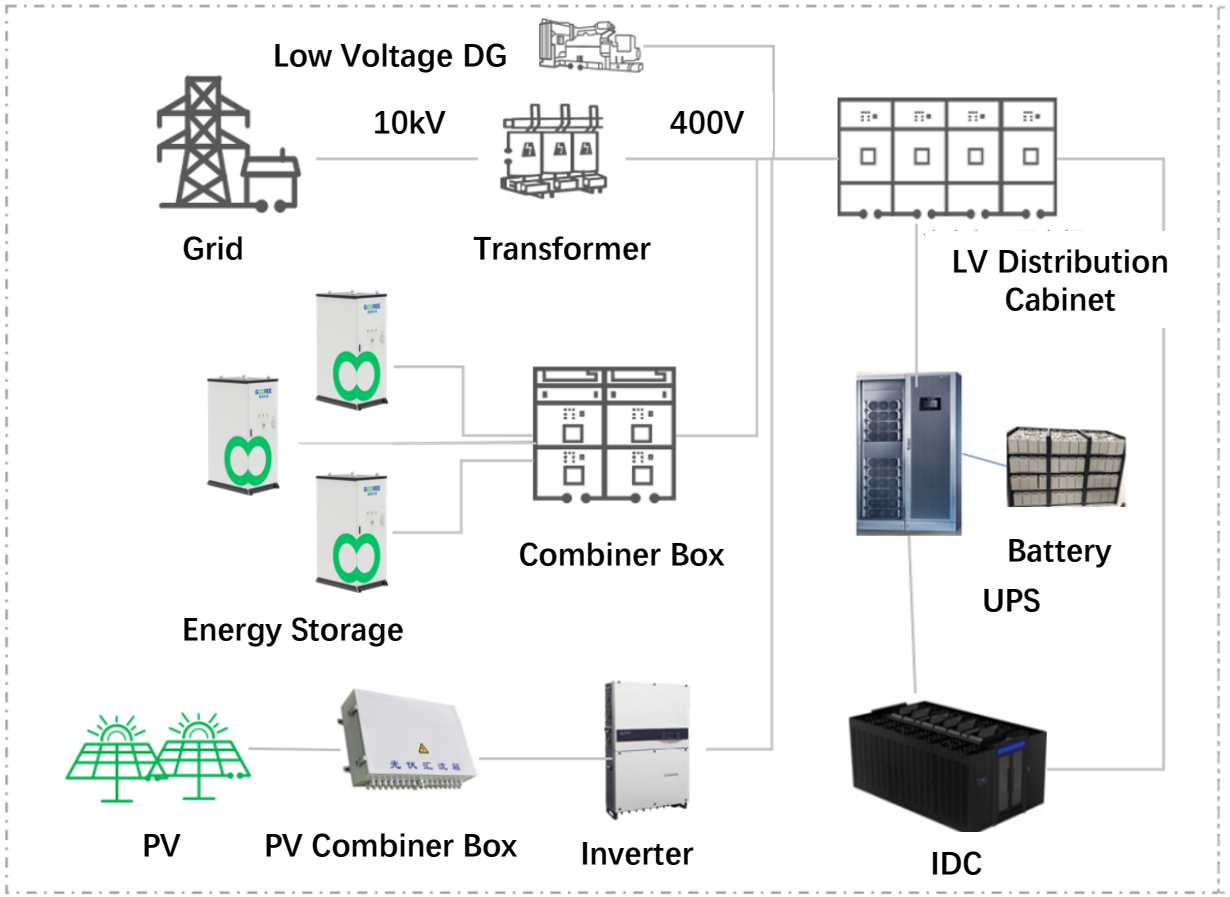
Capacity: 430kW/860kWh
Product Used: GR430L
Location: China. Shenzhen
End User: /

VI. Backup Power System for Computing Power Center

Project Value

"The integrated storage-UPS/PCS solution cuts costs, boosts efficiency, ensures reliable and scalable power, and generates additional revenue through grid service participation."

Topology



PV-ESS-EV Energy Storage

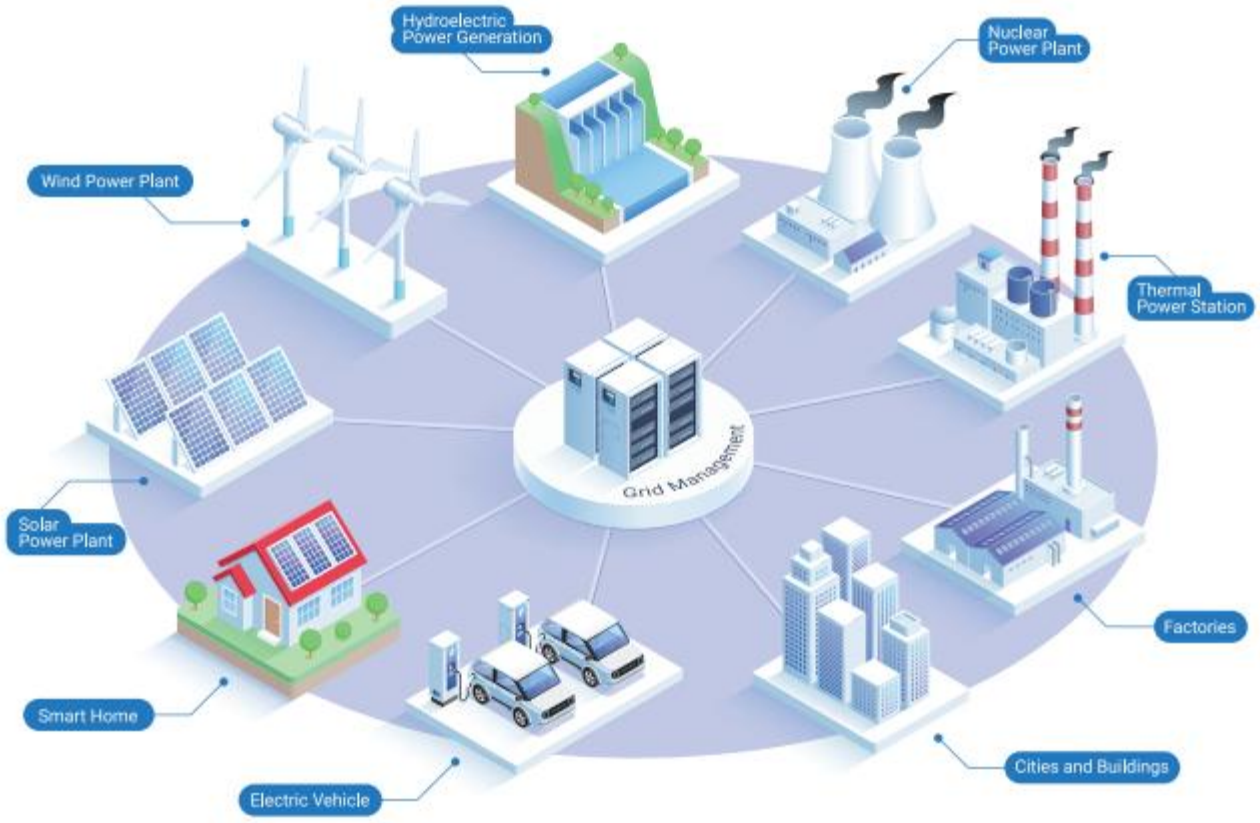
Capacity: 188kWh
Product Used: GR096A
Location: China. Hebei
End User: /

Ⅶ. Virtual Power Plant (VPP)

Project Value

VPP is an innovative power resource integration and optimization management model with unique technical concepts and excellent application value. It can gather distributed resources, adjust the flow, promote the consumption of new energy, ensure the stable operation of the power grid, and provide more market players with opportunities to participate in power market transactions. It is an important part of the new era of energy Internet.

Topology



GOOREE 国瑞协创

宁夏虚拟电厂平台

2025-02-25 星期二 | 10:17:37 | VPPNX1088

概况信息

总接入容量	总接入站	用户数
139 兆瓦	6	6

接入厂站

储能站	分布式电源	可调节负荷	可中断负荷	充换电站
0	0	6 个	0	0

接入容量

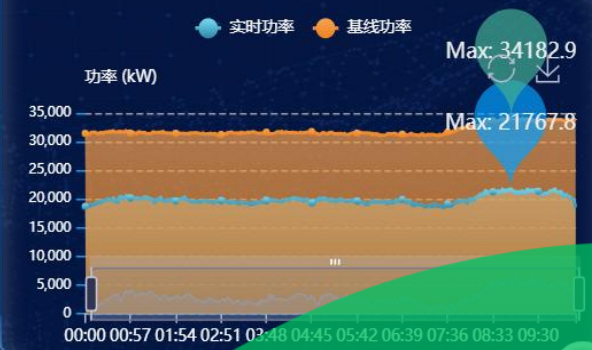
储能站	分布式电源	可调节负荷	可中断负荷	充换电站
0	0	139 兆瓦	0	0

资源分布

概况信息

上调能力	下调能力	可调终端数
139 兆瓦	139 兆瓦	6

功率图



地域分布

银川市
石嘴山市

Ningxia VPP

Capacity: 107MW
Location: China. Ningxia
End User: /

首页 | 邀约管理 | 负载预测 | 配置管理

GOOREE 国瑞协创

上海虚拟电厂平台

2025-02-25 星期二 | 10:31:44 | shvpp

概况信息

总接入容量	总接入站	用户数
0 兆瓦	1	1

接入厂站

储能站	分布式电源	可调节负荷	可中断负荷	充换电站
0	0	1 个	0	0

接入容量

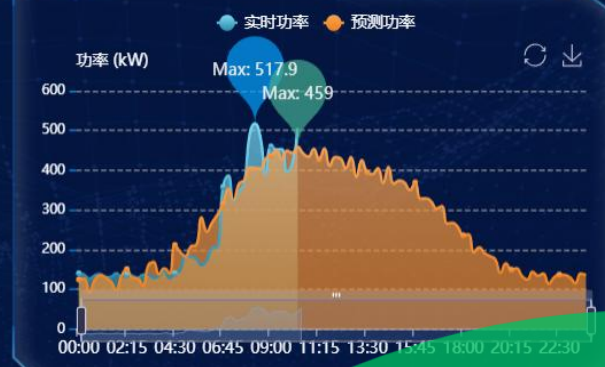
储能站	分布式电源	可调节负荷	可中断负荷	充换电站
0	0	1.1 兆瓦	0	0

资源分布

概况信息

总可调	总出力	可调终端数
1.1 兆瓦	0	1

功率图



地域分布

闵行区

Shanghai VPP

Adjustable Load: 10MW
Location: China. Shanghai
End User: /

首页 资源管理 负载预测

THANKS !

Shenzhen Gooree Energy Storage Technology Co., Ltd

22F, BTR New Energy Technology Building,Guangyuan 2 Road, Guangming, Shenzhen

Tel：0755-88658100　　E-mail：saels@gooree.com

www.gooree.com

GOOREE
国瑞协创