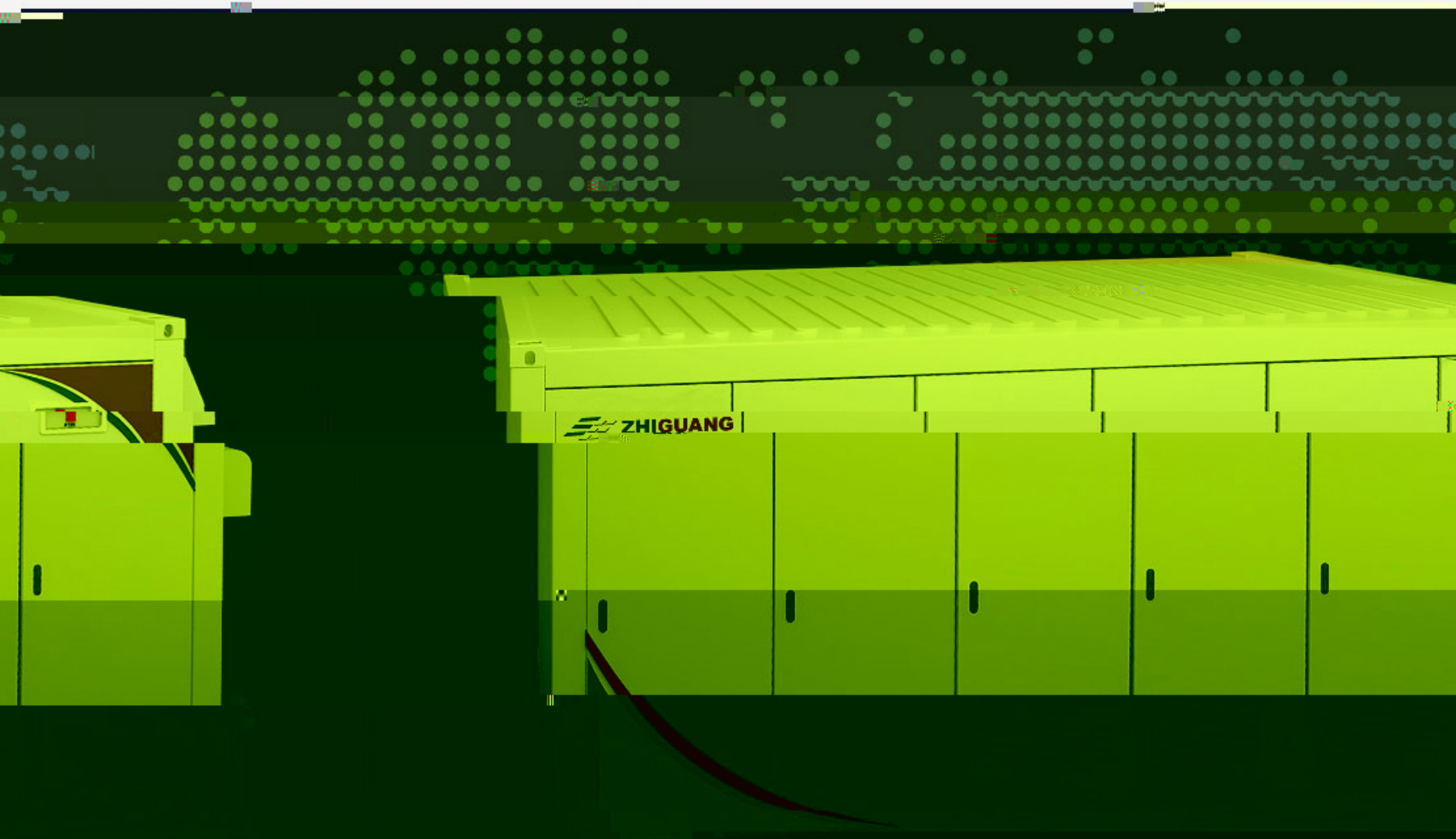




3.4MW/2×3.4MW



产品介绍 Product Description

本产品包含 1 个电池集装箱、BMS 系统、热管理系统、消防系统。其中电芯是最基本的电池单元。BMS 主要负责收集电芯、电池 PACK 和电柜信息，以及其他设备通讯。热管理系统负责整个电柜系统的制冷、加热。消防系统负责整个电柜系统的消防状态检测以及火灾预防。

The product consists of 1 battery container, BMS, TMS (thermal management system), and firefighting system. The battery cell is the basic battery unit. The BMS collects the operating data of the cells, packs and racks, and communication devices. The TMS controls the cooling and heating of the entire battery rack system. And the firefighting system manages the fire alerting and extinguishing for the entire battery system.



使用环境

Operation Environment Requirements

项目 Parameters	参数值 Values
1 存储环境温度 Storage Environment Temp.	-30~60℃
2 工作环境温度 Operation Environment Temp.	-25~55℃
3 工作环境湿度 Operation Environment Humidity	RH≤95% 无凝露 w/o condensation
4 工作海拔要求 Operation Altitude	≤3000m, >3000m 降额使用 ≤3000m, output derated when a



电池柜

Battery Container

组成部件 Component	数量 Qty.	备注 Note
1 电池预制舱 Battery Container	1	单项包含 1.1-1.3 Including 1.1-1.3 below
1.1 电池簇 Battery Cluster	8	1P416S
1.2 热管理系统(水冷机组+水冷管) Thermal Management System (Chiller+Water Pipe)	1	包含制冷模式、加热模式、 Multi-TMS modes: cooling and standby
1.3 消防系统 Firefighting System	1	烟雾传感器、温度传感器、 Smoke sensors, temperature extinguisher
2 BMS	1	
3 变流升压系统 Power Conversion and Transformer	1	
4 EMS	1	

产品技术参数 Technical Data Sheet

项目 Parameters	参数值 Values
电芯 The Cell	
1 电芯类型 Type	磷酸铁锂 LFP
2 电芯规格 Specification	3.2V/280Ah
3 额定倍率 Rated C-Rate	0.5CP
4 最大倍率 Max C-Rate	1.0CP
5 循环寿命 Life Cycle	6000 times @ 25°C 1.0 5CP
6 日历寿命 Life Span	20年 20 years
电池模组 Battery Module	
7 组合方式 Serial Configuration	1P52S
8 额定容量 Rated Capacity	280Ah
9 额定电压 Rated Voltage	166.4V
10 电压范围 Voltage Range	145.6~189.8V
11 额定能量 Rated Energy	46.592kWh
12 额定倍率 Rated C-Rate	0.5CP
13 最大倍率 Max C-Rate	1.0CP
14 PACK内电芯温差 Cell Temp. Deviation in PACK	≤2°C
电池簇 Battery Cluster	
15 标称电压 Nominal Voltage	1331.2V
16 电压范围 Voltage Range	1157.6~1504.8V

电池舱系统 Battery Pack System

项目 Parameters	参数值 Values
27 存储环境温度 Storage Environment Temp.	-40℃~60℃
28 工作相对湿度 Relative Working Humidity	0~100% (无凝露) 0~100% (w/o condensation)
29 海拔高度 Working Environment Altitude	不高于3000m (超过 3000m 降额使用) ≤3000m (Output derated when altitude > 3000m)
30 冷却方式 Cooling	液冷 Liquid-cooling
31 防护等级 Protection System	PACK级消防+水消防+可燃性气体检测+泄爆设计 PACK-Level Fire Protection + Water Fire Protection + Combustible Gas Detection + Explosion Relief Design
32 辅助电源 Auxiliary Power Supply	400VAC/50Hz/ 3/PE
33 系统通讯接口 Communication Interface	RS485, CAN, RS485, Ethernet
34 标准认证 Standard Certification	GB36276, IEC 62619
35 防护等级 IP Class	IP55
36 尺寸 (宽*深*高) Dimensions (W*D*H)	6058mm*2600mm*2896mm
37 重量 Weight	35 Tons
辅助电源 Auxillary Power Supply	
38 液冷机组功率 Liquid-cooling Unit Power	制冷25kW, 制热10kW, Cooling 25kW, Heating 10kW
39 电压范围 Voltage Range	380~480V
40 BMS功率 BMS Power	1kW
柜体基本参数 Cabinet General Parameters	
41 柜体尺寸 (宽*深*高) Cabinet Dimension (W*D*H)	2896mm*6058mm*2600mm
42 柜体重量 Cabinet Weight	35 Tons
43 柜体防护等级 Cabinet IP Class	IP55
44 柜体通讯接口 Cabinet Communication Mode	Modbus TCP
认证 Certification	
GB36276-2018, GB36276-2022, IEC 62619-2022, IEC 62619-2023, IEC 62619-2024, EN50549-2, IEC 62619-2025	

变流系统参数, Inverter Parameters
交流侧参数 AC Parameters

项目 Parameters	参数 Values
交流侧参数 AC Parameters	
1 额定功率 Rated power	1000W
2 额定电压 Rated voltage	100V
3 额定电流 Rated current	10A
4 额定功率因数 Rated power factor	0.95
5 功率因数调节范围 Power factor adjustment range	0.9~1.0
6 功率因数调节精度 Power factor adjustment accuracy	±0.01
7 功率因数调节响应时间 Power factor adjustment response time	Less than 10ms
8 有功功率响应时间 Active Power Response Time	Less than 30ms (从接收到指令到功率响应)
9 无功功率响应时间 Reactive Power Response Time	Less than 30ms (从接收到指令到功率响应)
10 功率控制偏差 Power Control Deviation	Not more than 2% when the power is more than 20% of rated power
11 直流分量重量 DC Component Weight	0.5%
12 高电压穿越功能 HV Ride-through Function	有 Yes
13 低电压穿越功能 LV Ride-through Function	有 Yes
直流侧参数 DC	
14 直流电压范围 DC Voltage Range	1090V~1500V
15 电压精度 Voltage Regulation Accuracy	±1%
保护 Protection	
16 防电压穿越 LV Ride-through Function	有 Yes
17 防孤岛保护 Anti-islanding Protection	有 Yes
18 交流过压/欠压保护 AC Overvoltage/Undervoltage Protection	有 Yes
19 交流进线相序错误保护 AC Incoming Phase Sequence Error Protection	有 Yes



25	直流过流/短路保护 DC Overcurrent/Short Circuit Protection	有 Yes
26	交流过压/欠压保护 AC Overvoltage/Undervoltage Protection	有 Yes

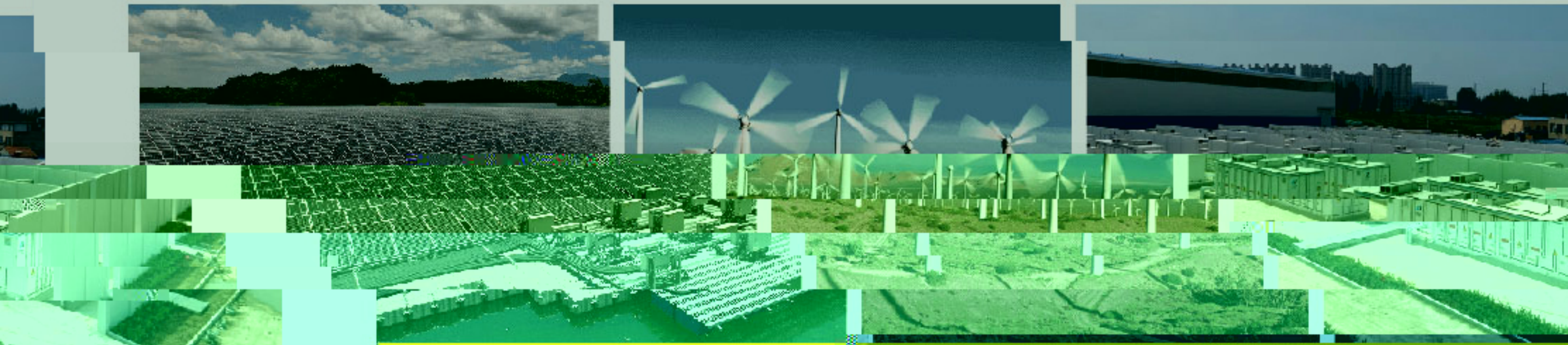
27	交流过频/欠频保护 AC Overfrequency/Underfrequency Protection	有 Yes
28	交流进线相序错误保护 AC Incoming Phase Sequence Error Protection	有 Yes

29	直流过流/短路保护 DC Overcurrent/Short Circuit Protection	有 Yes
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30	功率转换 Power Conversion	
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应用领域 Application Markets

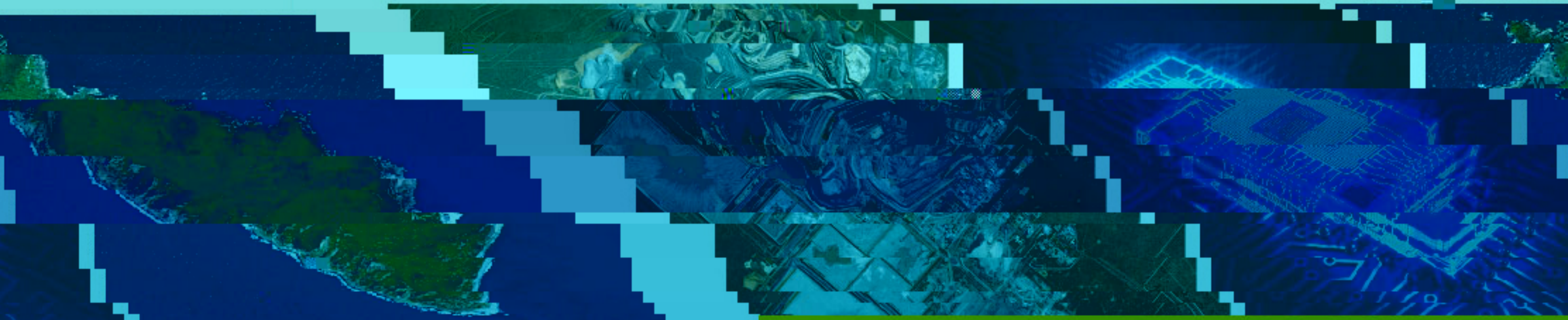


Power Grid Side BESS

地面光伏电站 Solar PV Power Plant

风力发电厂 Wind Power Station

电网侧独立储系统



光储柴微网 Micro Grid by Solar PV, BESS and Diesel Generator

矿区 Mines

半导体工厂 Semi-Conductor Factory

Case

成功案例 Successful Case



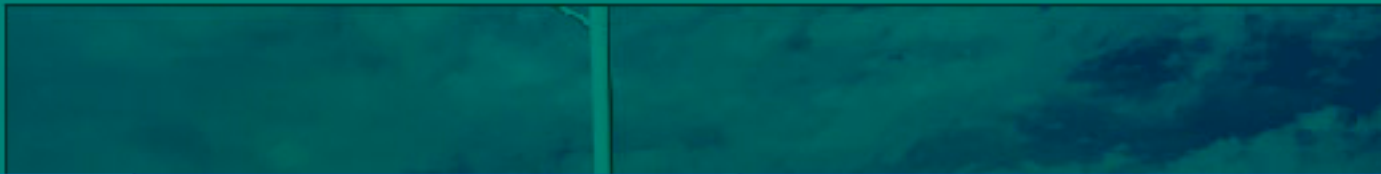
2MW/4MWh

收益：

削峰填谷、备用电源、降本增效。

Benefits: peak shaving, backup power supply, cost efficiency.

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