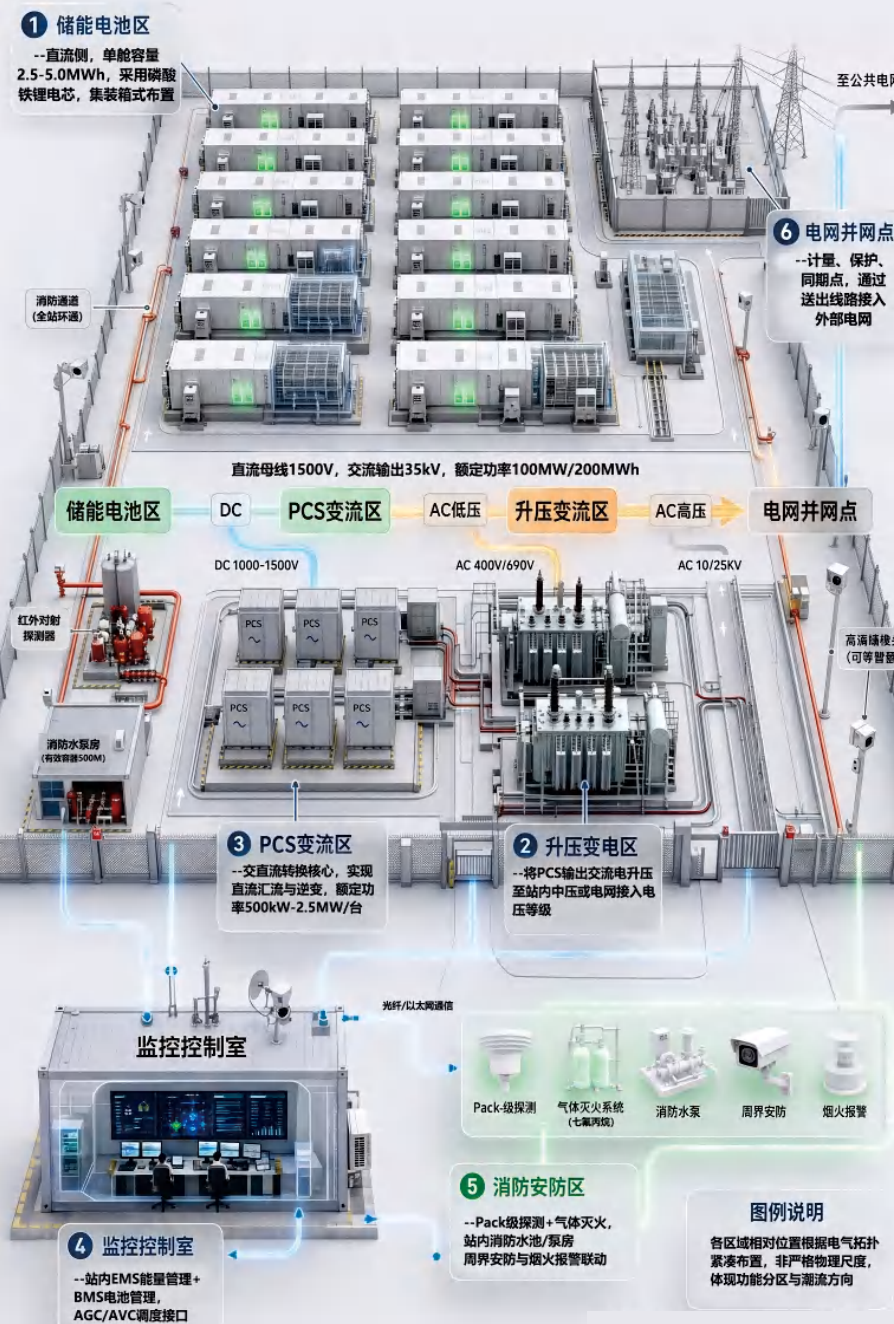


储能未来 绿动世界

ENERGY STORAGE
POWERING A GREEN FUTURE



20尺5MWh储能箱 20-foot 5MWh Energy Storage Container



电池参数 Battery parameters	
电芯类型 Cell type	3.2V, 314Ah
成组方式 Burst mode	1P416S*12
电池额定容量 Rated capacity of battery	5.015MWh
额定功率(0.5P) Rated power	2.5MW
电池电压范围(DC) Battery voltage range	推荐 recommend: 1123.2~1497.6V
系统参数 System parameter	
集装箱尺寸(宽*高*深) Container dimensions (width*height*depth)	6058mm*2896mm*2438mm
电池柜重量 Weight of battery cabinet	≤45T
防护等级 protection grade	IP54(Pack)IP67
运行温度范围 Operating temperature range	-30℃~50℃
保存湿度 Save humidity	0~95%(无凝露No condensation)
最高工作海拔(m) Maximum working altitude (m)	<2000m
电池温控方式 Battery temperature control method	液冷/50%乙二醇水溶液 Liquid cooled/50% ethylene glycol aqueous solution
消防标配 Firefighting standard equipment	PACK级
防腐等级 Anti corrosion grade	C4-M(可提供C5-H) C4-M (can provide C5-H)
通讯协议 Communication protocol	CAN/以太网Ethernet

储能

将电能转换储存，在需要时释放的技术
是新能源消纳和电网稳定的关键

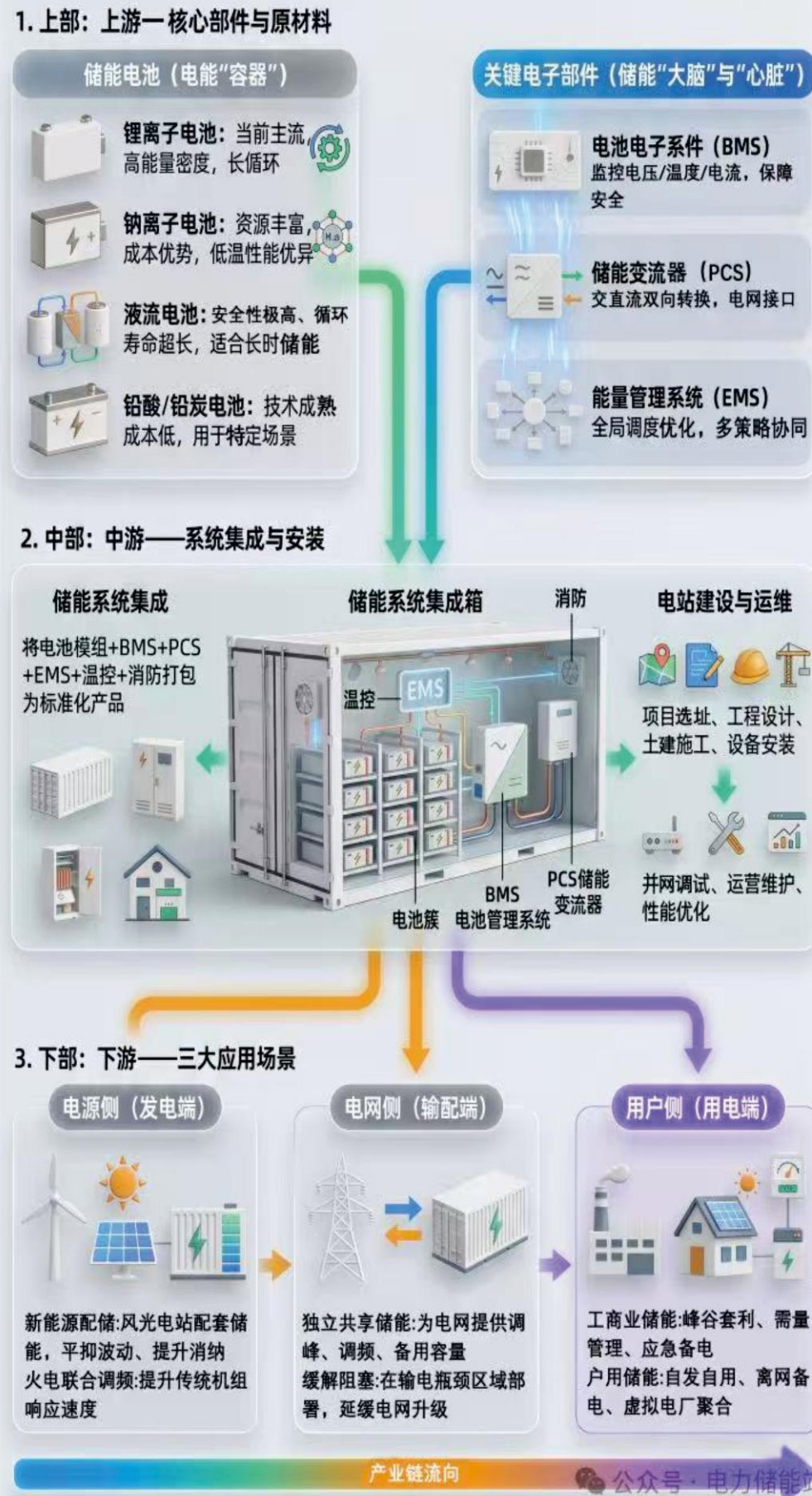


两类储能对比	
类型	代表技术
电化学储能	锂电池、钠电池、液流电池等
物理储能	抽水蓄能、压缩空气储能等
能量密度	高
响应速度	快(毫秒-秒)
储能时长	短(分钟-4小时)
规模	小-中型(kW-MW级)
成本(单位能量)	较高
适用场景	调峰调频、备用电源、用户侧、微电网等
能量密度	低
响应速度	较慢(秒-分钟)
储能时长	长(小时-天)
规模	大型(MW-GW级)
成本(单位能量)	较低
适用场景	电网调峰、系统备用、新能源大规模消纳等



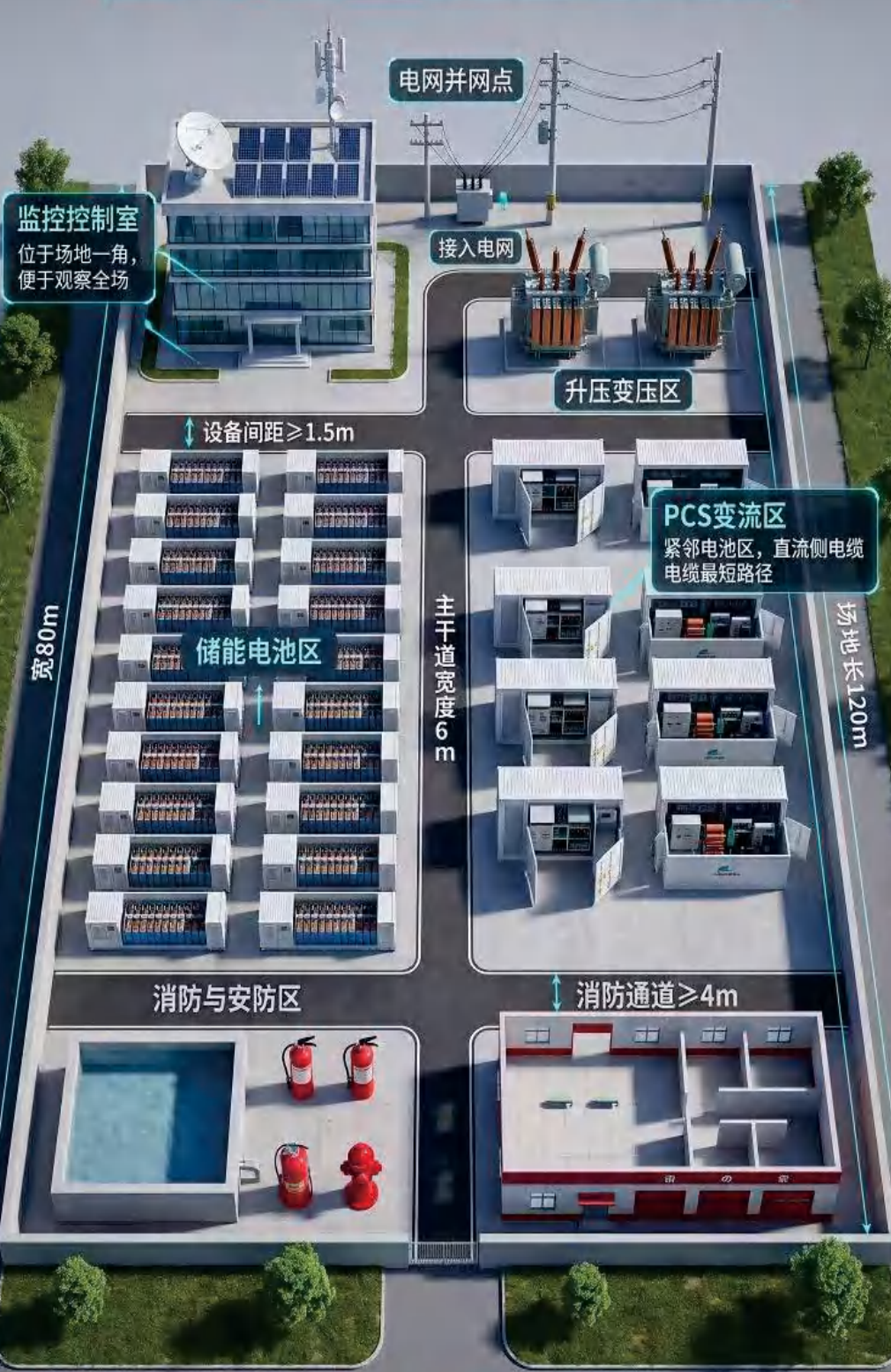
梳理储能产业链

图一：储能产业链全景谱系图



大型储能电站系统组成与布局图解

图一：电站整体鸟瞰布局图——六大功能分区



电池储能+升压并网+变流控制+监控
+消防，分区明确，布局紧凑

ALL-IN-ONE ENERGY STORAGE SYSTEM 一体化储能系统

涵盖完整储能设备与配套系统
打造安全、高效、智能的储能解决方案

Comprehensive Energy Storage Equipment
For Safe, Efficient And Intelligent Solutions



让能源存储更安全 让未来能源更智能
Making Energy Storage Safer, Creating A Smarter Energy Future

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新能源(GIS预制舱) New Energy(GIS Prefabricated Cabin)



用于电力系统高压开关设备安装, 承载气体绝缘开关设备 (GIS), 适配变电站、配电所, 实现高压电路控制、保护与隔离, 保障电力传输安全, 适用于场地紧张场景。

Designed for the installation of high-voltage switchgear in power systems, this equipment supports Gas-Insulated Switchgear (GIS) and is suitable for substations and power distribution stations. It enables the control, protection, and isolation of high-voltage circuits to ensure safe power transmission, making it ideal for sites with limited space.



密封极佳:

高气密性设计, 隔绝空气潮气, 防止GIS设备绝缘气体泄漏;
High-hermeticity design that seals out air and moisture, preventing leakage of the insulating gas from GIS equipment;

占地面积小:

模块化集成, 集中安装, 节省场地;
Modular integration and centralized installation save space;

高压防护:

优异高压绝缘、防触电性能, 适配高压设备运行;
Excellent high-voltage insulation and anti-electric shock performance, suitable for the operation of high-voltage equipment;

运维便捷:

预留检修门与观察窗口, 配备气体监测设备。
Access doors and observation windows are provided, and gas monitoring equipment is installed.

风电预制舱 Prefabricated Wind Power Module



用于风电场建设, 承载风电变流器、控制柜等核心设备, 适配陆上风场、海上风场, 为风电能量转换、传输与控制提供密闭稳定运行环境, 保障风机高效安全运转。

Designed for wind farm construction, these units house core equipment such as wind power converters and control cabinets. Suitable for both onshore and offshore wind farms, they provide a sealed, stable operating environment for wind energy conversion, transmission, and control, ensuring the efficient and safe operation of wind turbines.



抗风抗震:

高强度钢结构, 焊接牢固, 抵御强风、地震等极端工况;
High-strength steel structure with robust welding, capable of withstanding extreme conditions such as strong winds and earthquakes;

定制化强:

可根据风机功率、场地条件, 定制舱体尺寸与布局;
The enclosure dimensions and layout can be customized based on turbine power and site conditions.

密封防潮:

优异密封性能, 隔绝潮气灰尘, 保护精密电气设备;
Excellent sealing performance; blocks out moisture and dust, protecting precision electrical equipment;

运维便捷:

预留检修通道与观察窗口, 便于设备日常维护。
Maintenance access paths and observation windows are provided to facilitate routine equipment maintenance.

光伏预制舱 Photovoltaic Prefabricated Cabin



用于光伏电站项目, 涵盖光伏逆变、汇流、控制等核心环节, 为光伏系统提供标准化、集成化装备载体, 可快速部署于户外, 保障光伏电力稳定转换、传输与管控, 适配集中式、分布式光伏电站建设需求。

Designed for photovoltaic (PV) power plant projects, this solution encompasses core functions such as PV inversion, array combining, and control. It provides a standardized, integrated equipment platform that enables rapid outdoor deployment, ensures stable power conversion, transmission, and management, and meets the requirements of both centralized and distributed PV power plant construction.



耐候性强:

采用防腐、防水、防风沙材料, 适配户外露天环境, 抵御高温、雨雪、紫外线侵蚀;
Constructed from corrosion-resistant, waterproof, and wind/sand-resistant materials suitable for outdoor environments, capable of withstanding extreme temperatures, rain, snow, and UV exposure.

机动性优:

标准化模块设计, 便于运输吊装, 可快速部署迁移;
Standardized modular design facilitates transport and lifting, enabling rapid deployment and relocation.

集成度高:

一体化集成逆变器、汇流箱等核心组件, 缩短电站建设周期;
Integrates core components such as inverters and combiner boxes, shortening the power plant construction cycle;

安全可靠:

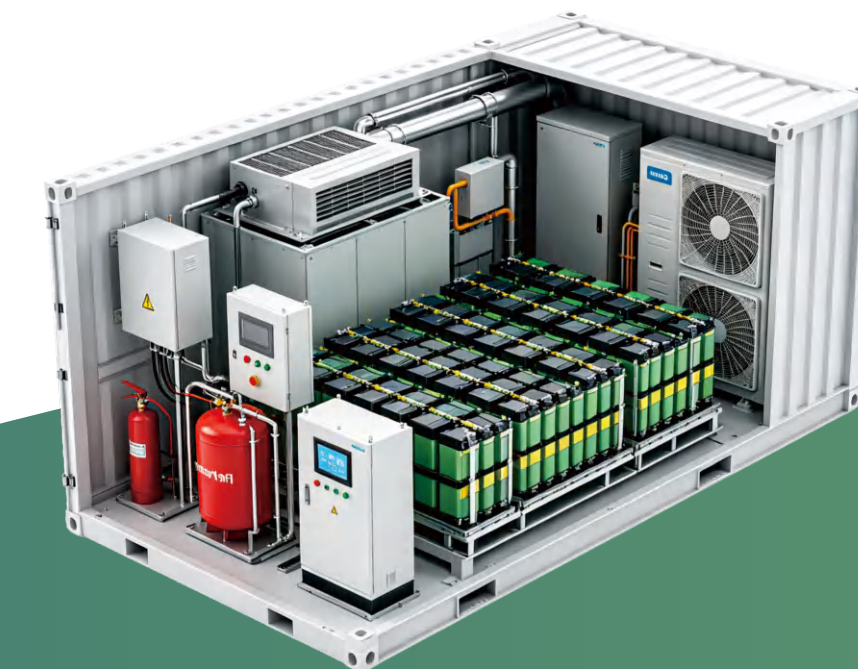
具备防火、防漏电、防电磁干扰性能。
Features fire-resistant, leakage-proof, and electromagnetic interference-resistant properties.

About ASHINE ENERGY

公司深耕行业25年, 现有四川德阳、深圳华西两大生产基地, 拥有500亩产业园, 43万平方米厂房, 具备80GWh年产能。依托强大的研发能力和丰富的项目经验, 完善的实验、检测设备, 产品从结构件延伸至储能系统的一体化智造和服务。

公司战略: 新能源精密钣金柔性智造行业第一, 打造储能系统智造OEM/ODM行业第一。为市场提供安全、可靠、极具性价比的储能系统产品。

With 25 years of deep industry experience, the company operates two major production bases in Deyang (Sichuan) and Shenzhen (Huaxi), featuring a 500-mu industrial park and 430,000 square meters of factory space, with an annual production capacity of 80 GWh. Leveraging robust R&D capabilities, extensive project experience, and comprehensive testing and inspection facilities, the company has expanded its offerings from structural components to integrated smart manufacturing and services for energy storage systems.
Corporate Strategy: To become the industry leader in flexible smart manufacturing of precision sheet metal for new energy, and to establish itself as the top player in OEM/ODM smart manufacturing for energy storage systems. The company is committed to providing the market with safe, reliable, and highly cost-effective energy storage system products.



储能未来绿动世界

中国华西智能装备 (新能源装备事业部)
China Huaxi Intelligent Equipment (New Energy Equipment Division)

四川爱尚智能科技有限公司
Sichuan Aishang Intelligent Technology Co., Ltd.

工商业储能
C&I Energy Storage

新能源储能舱
New energy storage pod

光伏预制舱
Photovoltaic prefabricated cabin

数据中心预制舱
Data center prefabricated cabin

预制电力舱
Prefabricated power cabin

无人驾驶舱
Driverless cockpit

太空舱
Spacecapsule

电站储能
Power Plant Energy Storage

电力设备预制舱
Prefabricated Cabin for Power Equipment

电池预制舱
Battery prefabricated cabin

发电机组预制舱
Generator set prefabricated cabin

预制生活舱
Prefabricated living module

电力储能舱
Energy storage cabin

微高压氧舱
Microhyperbaric oxygen chamber

打造储能系统智造 OEM/ODM 行业第一
Building the Future: Smart ESS OEM/ODM Industry First



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