



Grid Side

Future-Proof the Power Grid

KORTRONG's energy storage systems enhance grid stability and efficiency by leveraging reliable batteries, advanced battery management systems (BMS), and rapid commissioning. On the generation side, they support peak shaving, frequency regulation, renewable energy integration, and system inertia, optimizing power output and reducing wind and solar curtailment. For grid operations, these high-safety storage solutions alleviate transmission congestion, provide peak load shifting, and balance regional loads, ensuring reliable power system performance while increasing renewable energy utilization.



High energy-consuming enterprises



Large scale power supply



Renewable energy integration

5MW/10MWh UTILITY-SCALE ESS



Immersion Type Liquid-cooling ESS

Extreme safety

Immersion liquid cooling complete solve battery thermal runaway risk

Low maintenance cost

Minimizing wear on components, and eliminating the need for complex air-cooling systems that require frequent upkeep

Intelligent Thermal Management

25°C uniform battery temperature ensuring promised battery lifespan

String PCS

Cluster-level management, improving discharge capacity and system lifespan

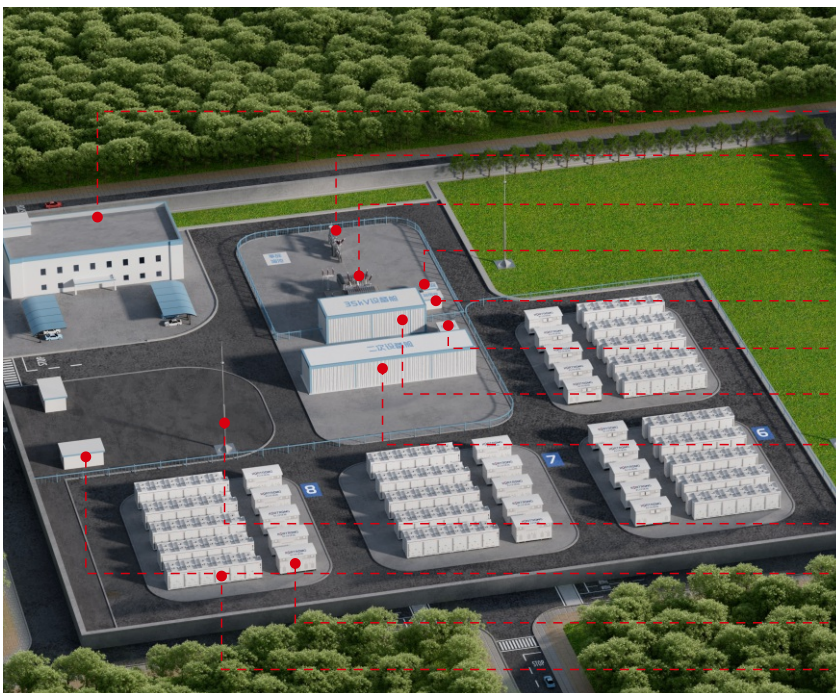
Active Cell Balancing

Enhances battery lifespan and efficiency



High Efficiency ESS Performance


Boost grid stability, safety, and efficacy with high-performance immersion liquid cooling ESS, optimizing RE integration, reducing congestion, and balancing loads.



Integrated AC/DC Immersion-Cooled ESS with Box Transformer & EMS

- Office Building
- GIS (Gas-Insulated Switchgear)
- Main Transformer
- 35kV Grounding Transformer System
- 35kV Substation SSPS (Station Service)
- 10kV Standby Transformer System
- 35KV Switchgear Prefab Cabin
- Secondary Equip Prefab Cab (MCR + Aux + Comms)
- Lightning Rod
- Integrated Water Pump House
- Box-Type Transformer
- BESS (Battery Energy Storage System)

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