

Utility-scale ESS Solution

Large-scale ESS solution integrates a **high-safety, high-energy-density, high-efficiency liquid-cooled battery system** with grid-forming PCS, grid-connected transformer, comprehensive fire protection, and intelligent EMS.

It delivers peak shaving, frequency regulation, ancillary services, and black start capability to **enhance renewable integration** and **stabilize grid fluctuations**.

Features & Value



Tier 1 Grade A LFP cells

Liquid-cooled, lays the foundation for reliability on long-term safety and economic returns.



High-performance system integration

Optimized control, ensures fast and accurate response to grid demand.



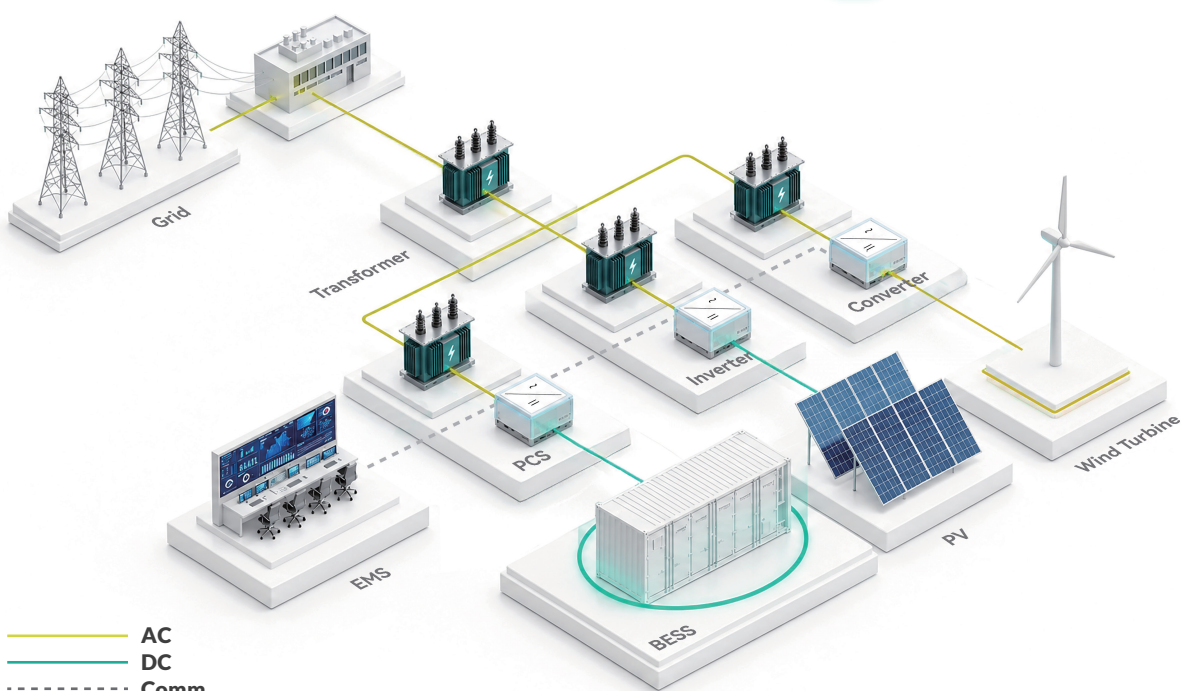
Supports 1P / 0.5P / 0.25P

Customizable system configuration, meets diverse power and energy needs.



Modular design

Flexible architecture, allows for quick and flexible deployment.



Large-scale C&I ESS Solution (>3MWh)

Containerized ESS with **modular design** flexibly adapts to various application scenarios like industrial park, factory, commercial area, data center, etc. through multiple operation modes, and intelligent management system, and then **optimizes electricity cost and energy efficiency**.

Features & Value



Multi-scenario application support

Peak Shaving, TOU arbitrage, Dynamic Capacity Expansion, and Emergency Power Supply, etc., addresses diverse operational needs.



Grid interaction enablement

Demand Response and Ancillary Service, unlocks new revenue through electricity trading.



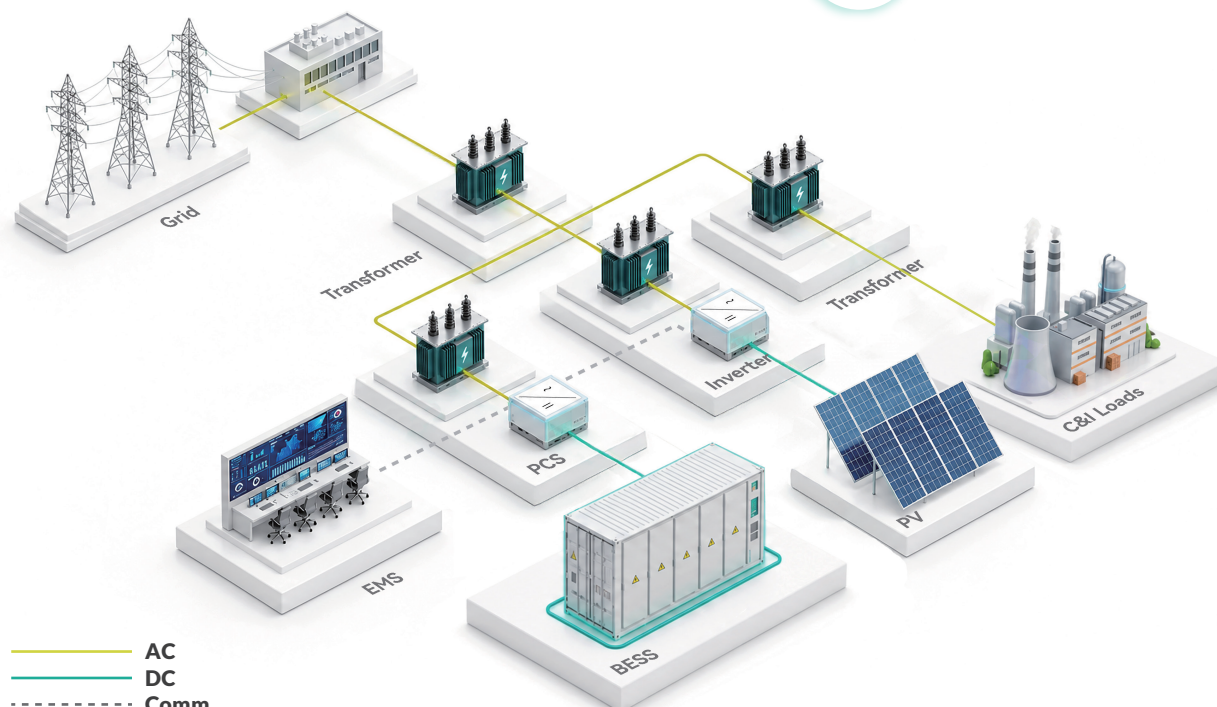
Advanced grid-forming capability

VSG and unbalanced loading, ensures stable operation for different types of loads.



Intelligent Energy Management (EMS)

Smart platform, allows for easy monitoring and planning.



Small-scale C&I ESS Solution (<3MWh)

All-in-one ESS system perfectly adapts to **various small-scale application scenarios** with high energy-consumption, such as commercial area, factory, data center, charging station, etc., with minimum effort of system integration to **optimize energy efficiency and cutting electricity bill.**

Features & Value



Integrated and compact design

All-in-one cabinet, features built-in BMS, PCS, FSS, TMS, and EMS.



Flexible system expansion

Parallel connection, allows for easy expansion of multiple cabinets.



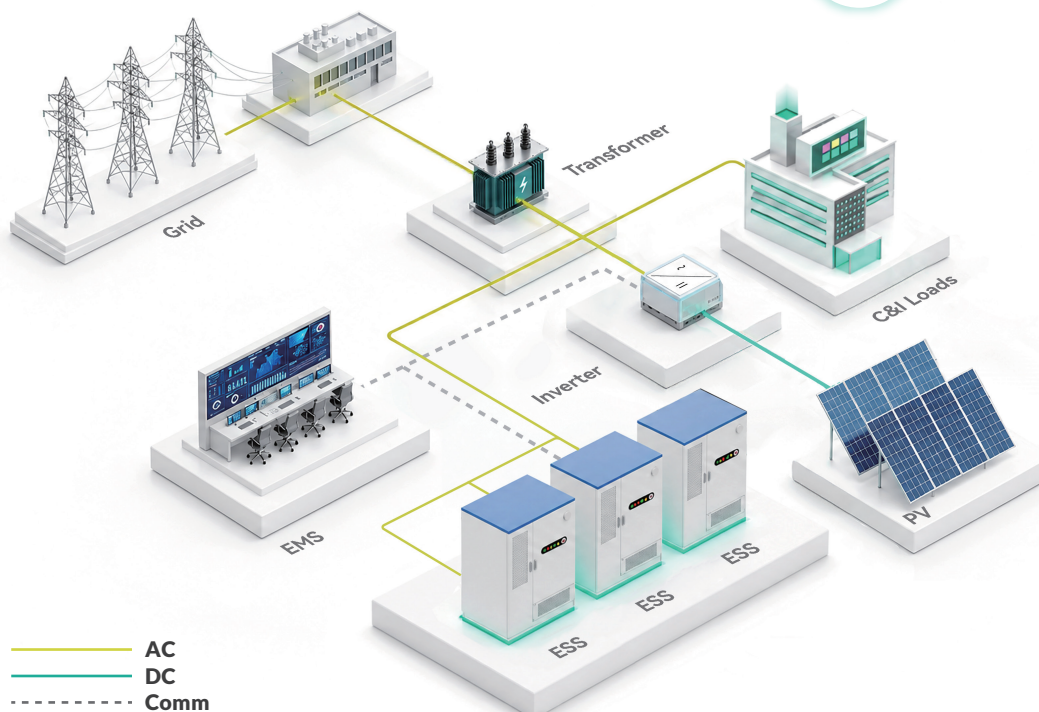
Easy site integration

Modbus ready, enables easy integration with CEMS and existing PV for maximization of energy efficiency.



Multi-scenario application

On/off-grid modes adaptable for various application scenarios.



Micro-grid ESS Solution

Micro-grid ESS solution forms up microgrid independently or combined with local power source to **eliminate dependency on weak grid, and achieve self-sufficiency and uninterrupted power supply**. It is widely adopted in industrial parks, islands and remote areas where weak or no grid is available.

Features & Value



Plug & Play Installation

Hybrid source input, seamlessly converges power from PV and Generator.



STS embedded for backup

On/off-grid switching within 20ms, ensures uninterrupted emergency power supply.



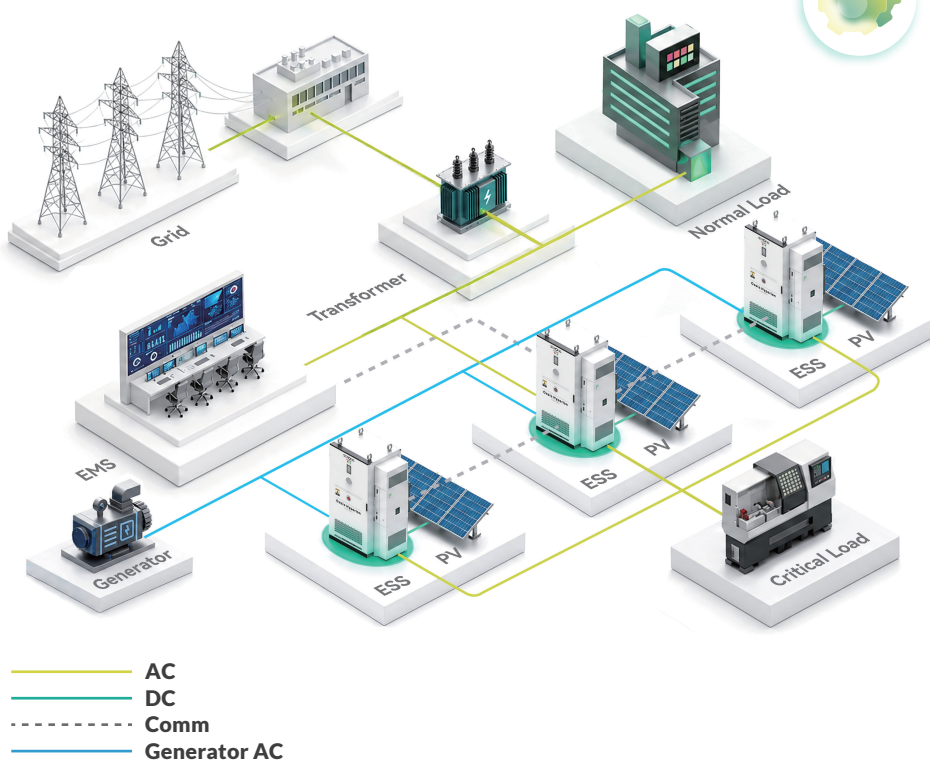
Built-in EMS

Remote monitoring and intelligent energy management from anywhere anywhen.



Flexible system expansion

AC side parallel upto ≤ 6 for wide range of demand. DC side scaling for 2hr and 4hr storage requirement.



Solar-Storage-Charging Solution

The integrated SSC (Solar-Storage-Charging) solution meets the surging power demand from EV growth by using ESS for **dynamic grid capacity expansion and peak shaving**. It intelligently manages energy flow, leveraging solar generation and time-of-use tariffs for cost-effective energy arbitrage. This synergy **minimizes grid dependency, slashes operating costs, and transforms charging hubs into high-value, resilient assets**.

Features & Value



Comprehensive solution

Station-level synergy, integrates multiple power sources and economic factors.



Flexible system expansion

Parallel connection, allows for easy scaling as per needs.



Grid interaction enablement

Demand response and ancillary service, fully supports electricity trading requirements.



Future-proof technology

V2G ready, enables bi-directional energy transfer for vehicle-to-grid integration.

