

Case Study

Jinko ESS SunGiga Liquid Cooled AC-Coupled System Solution for China Microgrid Project

1250kW/2610kWh Li-ion BESS Project in China

Project Overview

With the great pressure brought by the energy crisis and climate change, the realization of low-carbon transformation

world leading the way.

cannot be separated from the construction of charging



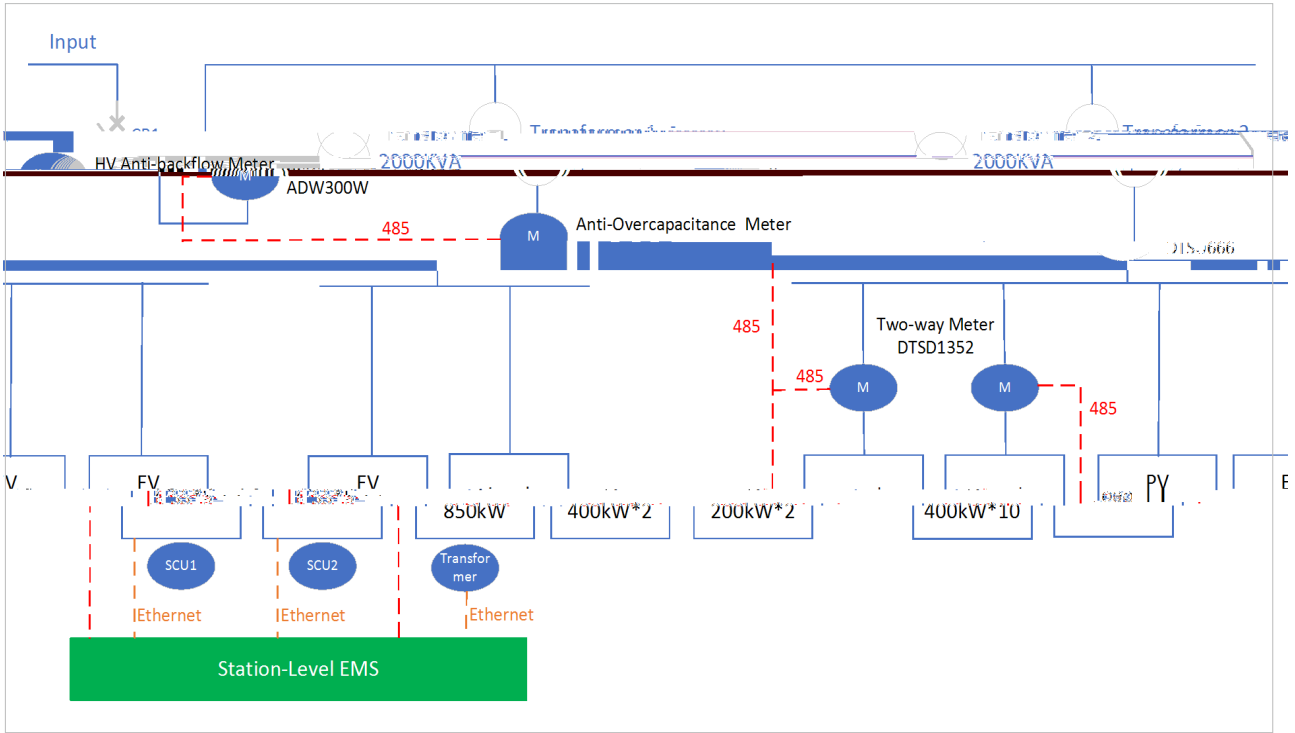


Fig. 1 Single Line Diagram of the System

The Solution

This project is located in Wuzhi, Jiaozuo city, Henan

The project is equipped with a 1250kW/2610kWh energy

piles.

There are a total of 2 units of 2000KVA transformers on site.

- Two Acrel DTSU1352 two-way meters each correspond

Transformer 2 is connected to 10*400kW EV charging piles and domestic power loads.

The HV anti-backflow meter ADW300W is configured to monitor the power situation of the main incoming line, and the circuit is controlled to be on and off through the CB1

functions for the 10kV main incoming lines throughout the

entire factory area will be realized, the power of each set of equipment will be coordinated and allocated, and the anti-

Operation Logic

main switch, the charging and discharging of the energy user's main switch cabinet, the energy storage PCS system, control the charging and discharging of the energy storage power grid. By detecting the power consumption of the user's

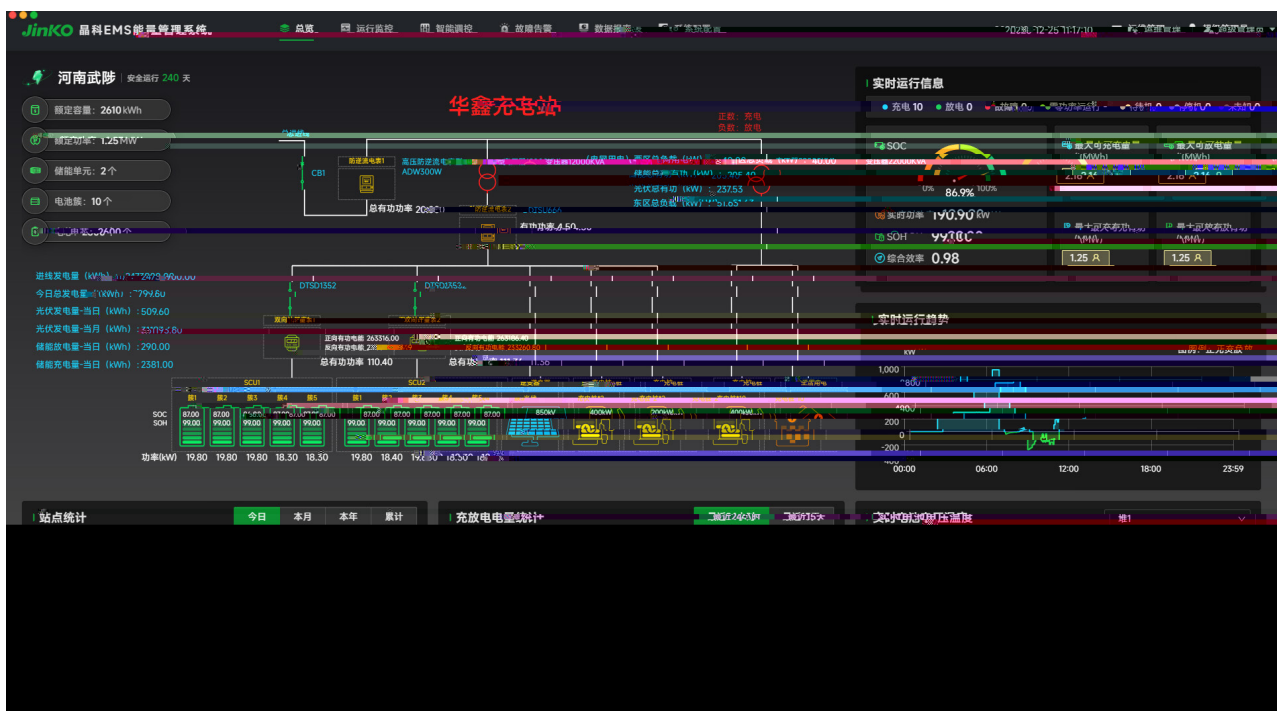


Fig. 2 Jinko ESS BESS Control Logic

1. The charging and discharging power of energy

back to the power grid.

night, the energy storage is slowly charged to the capacity specified by the owner, and during the day, the remaining capacity is used to absorb excess PV generation. Try to

Adjust the charging and discharging power of the energy storage according to the actual situation. Only when it is truly impossible to fully consume it should PV curtailment be executed.

will jointly bear the load and maintain the normal operation of the system. Among them, the energy storage system exists

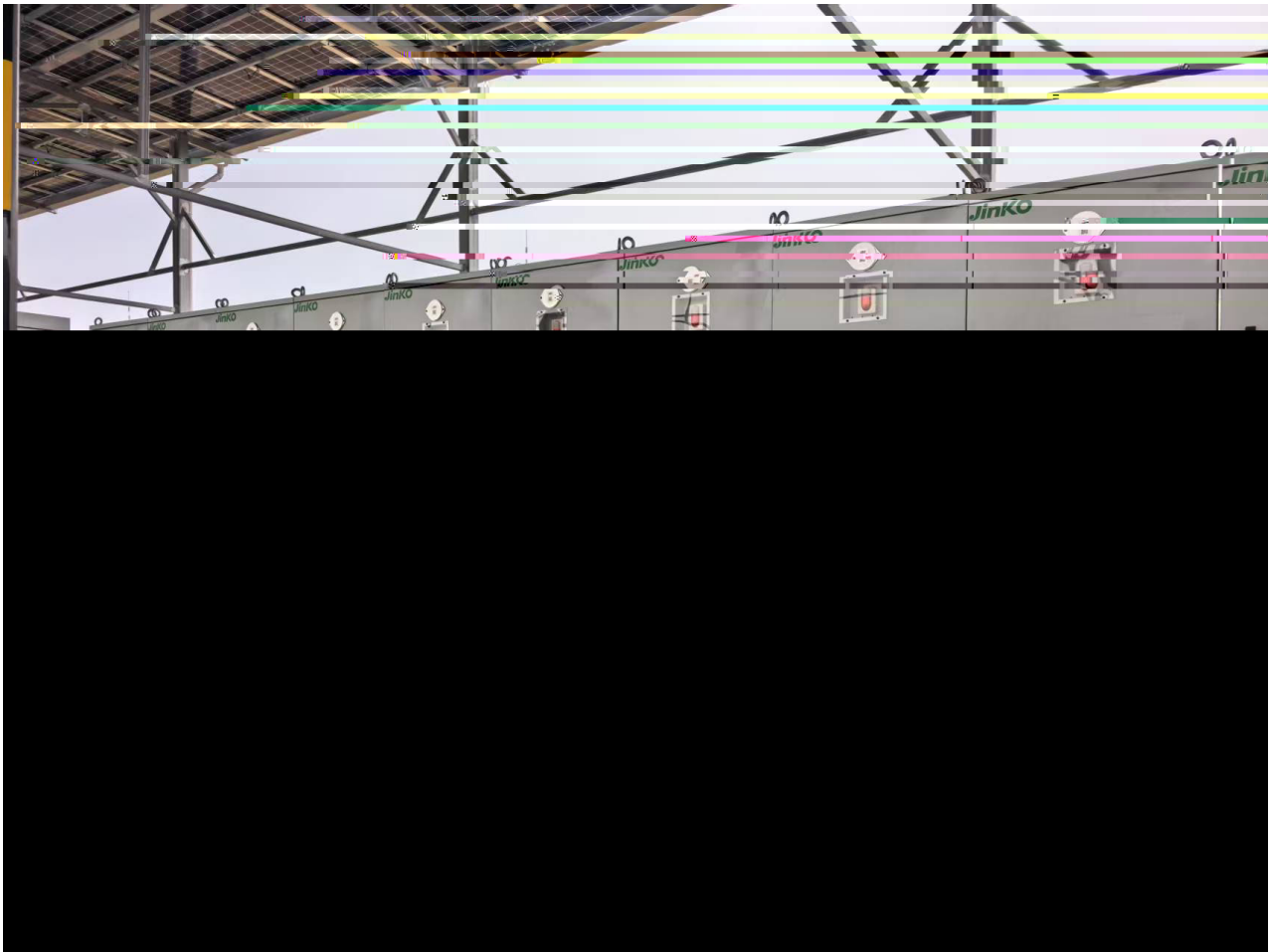


Fig. 4 Site Picture



Jinko Solar Co.,Ltd.

District, Shanghai, China

Tel +86 400 860 8878

www.jinkosolar.com

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