JinkoSolar C&I ESS, SunGiga, has successfully Connected to the Grid in Suzhou

JinkoSolar, today announced that it has delivered its liquid cooling storage system SunGiga for a C&I project in Suzhou. The highly integrated 430kWh energy storage system, which is mainly used for peak shaving, peak valley arbitrage, saving space, and streamlining the installation process, will offer high profitability, safety, and flexibility to the customer.

Figure 1: Project Photos

This highly robust, smart, and doubled safety product SunGiga is designed for a set-it-and-forget-it installation and operation.

SunGiga' s module design allows for additional storage capacity to be added or removed to fine-tune the system to meet the storage demands of many more consumers than would be allowed with a fixed-capacity battery system. This is something that is customized once with the purchase of the system but could also be upgraded over time as needs change.

Energy density is the amount of power stored in a given volume, meaning that the SunGiga can store 50% more the amount of energy in the same physical footprint than the previous generation.

The safety issue of energy storage systems raised tremendous concern for customers. For conventional HVAC air cooling ESS, the poor uniformity of temperature between batteries, high auxiliary power consumption, inefficient heat dissipation, and so on result in safety risks and lower projected revenue. In addition to increased energy density, JinkoSolar' s new generation liquid cooling C&I energy storage system provides all-around safety-assured total ESS solutions from the battery, rack, pack, and cabinet to the while project, to meet different applications in a variety of C&I scenarios.

The new unit also comes with an active liquid cooling and AI-based managing system that cools the batteries while using 30% less power.

Energy storage in the commercial and industrial (C&I) segment is poised for growth over the next decade. China will be one of the largest incremental markets. C&I energy storage gains localized political and economic support to assist in solving its problem of electricity shortage, particularly in eastern and southern China. Power outages caused by supply-demand imbalances bring substantial economic loss, and ESS also plays a role in the increased interest in backup power. On the other hand, the electricity cost for C&I demand is relatively high in some regions. Driven by incentives including time-of-use electricity price, and favorable updated policies, ancillary services, the C&I ESS increases revenue.

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