JinkoSolar Signs Supply Agreement for SunTera Liquid-Cooled Energy Storage System with Powerchina Jiangxi Electric Power Engineering

Recently, JinkoSolar, one of the largest and most innovative solar module manufacturers in the world, has signed a supply agreement with Powerchina Jiangxi Electric Power Engineering Co., Ltd. to provide 5MW of Tiger Neo N-type bifacial modules and a 6.88MWh SunTera liquid-cooled energy storage system for the Saudi Aramco East-West Pipeline Pump Station Community Project.

The project aims to build a new residential community for the Saudi Aramco pipeline pump stations and pressure reducing stations, replacing existing communities located in hazardous areas. Once completed, the community will accommodate 1,748 Saudi Aramco employees and contractors working at the pump stations, with Powerchina Jiangxi Electric Power Engineering acting as the project's EPC general contractor.

In addition, the project also incorporates JinkoSolar's new-generation large-scale SunTera liquid-cooled energy storage system. The system, housed in standard 20-foot containers, features non-uniform fine flow channels, ensuring real-time temperature differences within ≤2.5 ° C for the battery cells. With various liquid cooling control modes, the system reduces auxiliary power consumption by 20% and increases service life by 10%. It stands out with its features of high-efficiency liquid cooling, utmost safety, optimal cost, and intelligent operation and can endure ambient temperatures of up to 60° C, making it suitable for the high-temperature requirements of Saudi Arabia and adaptable for various energy storage projects in different scenarios. The system can be perfectly paired with DC/DC controllers, PCS energy storage inverters, and relevant micro-grid system equipment, ensuring seamless coverage of off-grid applications in photovoltaic-energy-storage-diesel hybrid systems.

Figure 1: Project Photos

S3440AL is a fully integrated, scalable, turnkey energy storage system for C&I and utility applications. Utilizing LFP battery
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