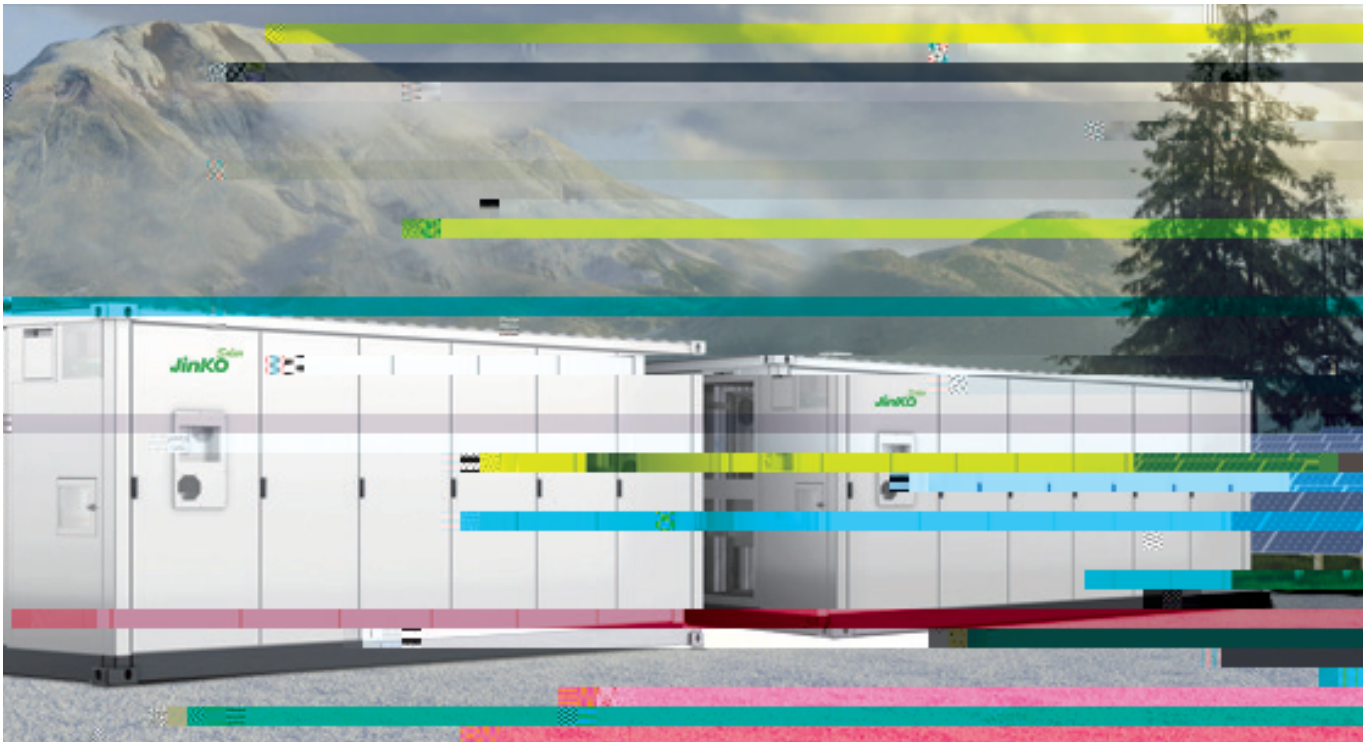
JinkoSolar Provides 6MWh Liquid Cooling ESS in Taishan

JinkoSolar has provided 6MWh liquid cooling energy storage systems for a 6MW/6MWh project in Beidou, Taishan City, Guangdong province.

Safety, efficiency and cell life are three key considerations for the project owner. The air-cooling medium has poor temperature uniformity while liquid-cooling systems in which the coolant flows through the liquid cooling plate integrated inside the battery system to reduce battery temperature, improve battery consistency and reduce the risk of thermal runaway. Compared to conventional liquid cooling ESS, JinkoSolar' s SunTera features the industry-lowest temperature difference within 2.5 Celsius degrees, as a result, it ensures that the battery operates at a comfortable temperature and can extend the battery life by 20% compared with air cooling. In addition, it enables higher energy density per cell and reduces power consumption by 10%.

In the pursuit of technological excellence, JinkoSolar always adheres to the principle of safety first. Energy storage safety upgrades are imminent, and liquid cooling technology is emerging and is expected to reach a market penetration rate of 50% by 2025. Compared with air cooling, liquid cooling has stronger temperature uniformity and smaller temperature differences, which helps extend battery life and makes the system safer. With higher energy density of the system that applies liquid cooling, liquid cooling has gradually become the mainstream technology for energy storage thermal management.