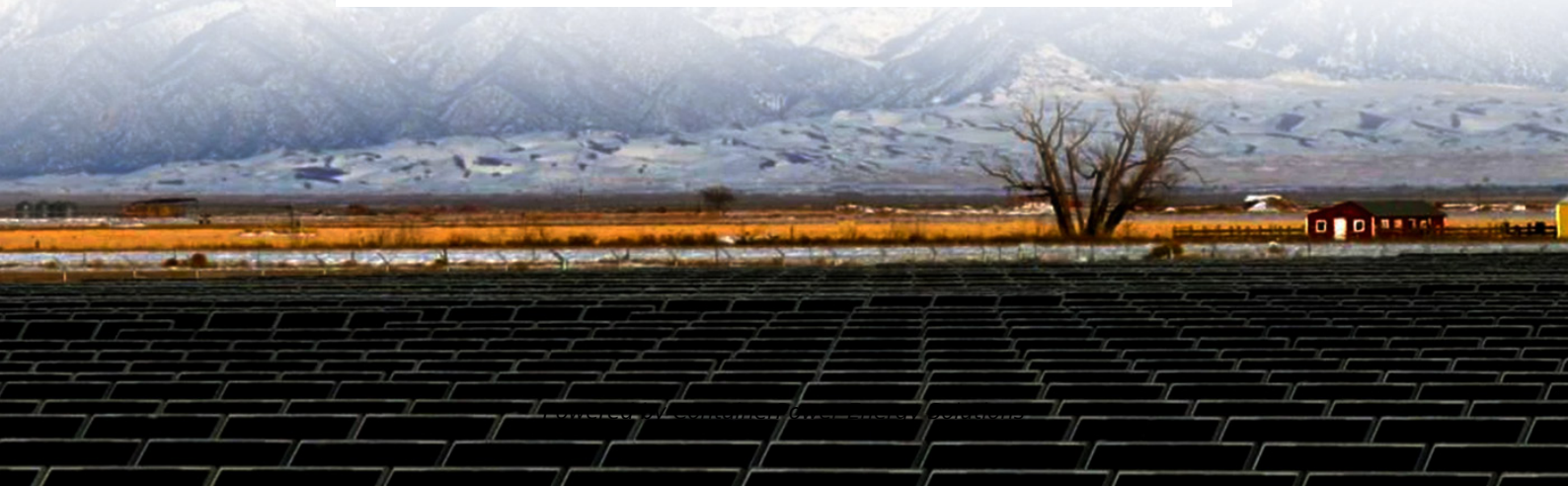
ContainerPower Energy Solutions

Huawei solar Frequency Regulation Energy Storage Project



Overview

Huawei FusionSolar’s Grid-Forming ESS solution launched in the past has already been deployed at the Red Sea destination in the Middle East, which combined 400MW of PV capacity of 1.3GWh of energy storage systems (ESS), making it the world’s largest 100% renewable PV-plus-ESS microgrid.How Huawei's power supply solution helps Ngari Prefecture?

Huawei's solution plays a crucial role in ensuring power supply and improving renewable integration in Ngari Prefecture under high altitude, low temperature, and weak power grid conditions.

What is Huawei digital power?

Huawei Digital Power is dedicated to enhancing the safety and stability of renewable integration by combining digital and power electronics technologies, leveraging technical experience, and collaborating with global power companies, grid enterprises, and electricity providers.

What is Huawei smart string ESS?

It is powered by a 50 MW/100 MWh Huawei grid-forming Smart String ESS solution, which has been verified through performance tests to have excellent grid-forming capabilities, compatibility with various types of power supplies, and parallel operation capabilities of multiple devices.

Why should you choose Tai'erzhuang ESS power station?

With strong load-changes tracking, fast and precise PQ response, and a bidirectional regulation function, Tai’erzhuang ESS power station is a quality and flexi-ble power source to participate in peak & frequency regulation and emergency backup, thus ensuring the safety and stable operation of the power grid.

How safe is Tai'erzhuang ESS station?

Tai’erzhuang ESS Station adopts the Pow-erTitan energy storage system,

which is the first system to pass UL 9540 and UL 9540A system-level safety standards certified by TÜV Rheinland in China. It achieved system safety.

How does the energy storage system work?

Each energy storage unit is connected to the 35kV distribution unit of the booster station through a 35kV collector line and then boosted to 220kV via a 120MVA (220/35kV) transformer. The project is equipped with an energy management system (EMS) to receive grid dispatching commands and manage the charge and discharge of the energy storage system.

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