

## Kongres Container

# Huawei Energy Storage Smart Grid Project



## Overview

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The world's first grid-forming energy storage plant, deployed in a high-altitude, extremely cold, and weak grid environment—the 30 MW PV + 6 MW/24 MWh grid-forming energy storage system (ESS) project in Gertse County, Northwest China—has demonstrated outstanding performance using Huawei's Smart String Grid-Forming ESS. What is Huawei's 'grid-following' technology?

The Huawei solution has advanced from “grid-following” to “grid-forming,” representing a significant breakthrough in power electronic grid-forming technology, a crucial step toward building new power systems, and a major technical milestone toward carbon neutrality. \*Note:.

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.

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.

Can grid-forming energy storage plants strengthen renewable power plants?

Grid-forming energy storage plants can strengthen renewable power plants and provide stable support during transient states, improving local grid integration of renewable energy.

Is CR power a grid-forming energy storage project?

The CR Power\* 25 MW/100 MWh grid-forming energy storage project has successfully passed unit, site, and system-level tests, including high/low

voltage disturbance, phase angle jump, low-frequency oscillation, damping performance, and grid following/grid-forming mode switching tests, making it the world's first of its kind.

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.

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