

Kongres Container

Korea s new energy storage cabinet BESS



Overview

Are South Korean companies investing in energy storage systems?

Less than a decade ago, South Korean companies held over half of the global energy storage system (ESS) market with the rushed promise of helping secure a more sustainable energy future. However, a string of ESS-related fires and a lack of infrastructure had dampened investments in this market.

Why does Korean power system plan to provide Bess?

Due to the wide range of BESS capabilities as mentioned above, Korean power system plans to provision BESS to relieve generation curtailment and to provide FR service in the short-term applications, and to maintain frequency stability by providing FFR service in a low-inertia system for the long-term applications.

Are battery energy storage systems a countermeasure?

Using their fast response characteristic, battery energy storage systems (BESS) are regarded as a countermeasure to relieve the curtailment.

What happened to Korea's battery storage market?

ET News said it marked the utility's first bulk procurement of battery storage in five years since the Korean market was put on pause by a series of fires at mostly commercial and industrial (C&I) facilities during 2017-2018.

How to overcome stability issues in Korea's power system?

Besides, considering the short-term state of the Korean power system, another stability issue may arise due to the delayed reinforcement of the shared network connecting large-scaled generation plants. Several countermeasures such as generator tripping and generation curtailment are proposed to overcome stability issues.

Will KEPCO tender a Bess project in 2022?

According to a June 2022 report by Electronic Times (ET News), an information technology media outlet based in South Korea, KEPCO announced its plan to tender contracts to build the five BESS installations, selecting bidders by October of that year.

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