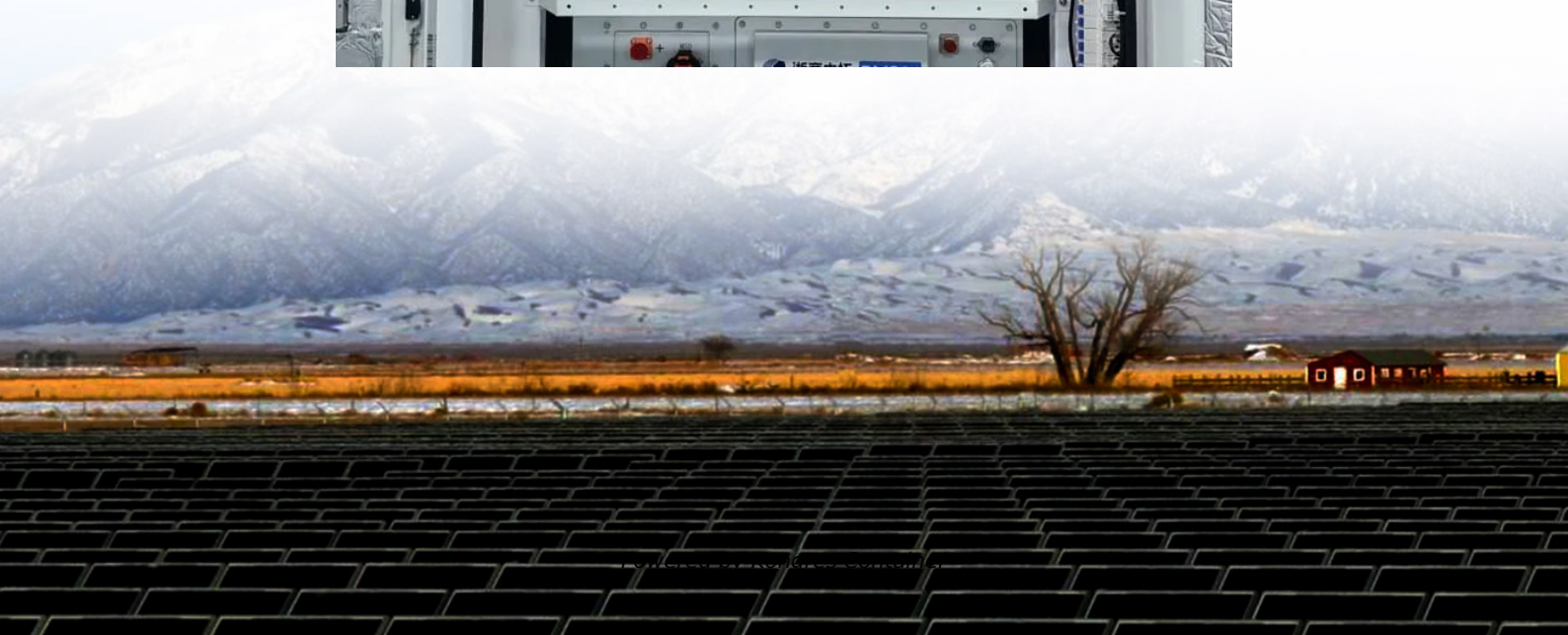


Kongres Container

Measurement of energy storage function in substations



Overview

These expansive railway power facilities, which cover vast areas, result in increased maintenance and management costs while affecting the power supply to traction substations (TSs). Herein, we investigated the load leveling of TSs using energy storage systems (ESSs).

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The AC and DC systems utilized in substations play a vital role in ensuring the safe and stable operation of substations. Currently, there is no intelligent method for monitoring the operating conditions and energy efficiency and providing abnormal warnings for various equipment in the station.

Within this framework, the measurement of various electrical parameters becomes indispensable for effective monitoring and control of these installations. Substation measurements encompass a wide range of electrical quantities, such as voltage, current, power, and frequency. These parameters are.

At present, smart substation provides a variety of monitoring system solutions according to different disciplines such as steady-state, dynamic and transient. Each scheme is independent of each other, some data are repeatedly collected, and the utilization rate is low. It does not conform to the.

Introduction In order to solve the problem of the short-term heavy load of main transformers in substations caused by the high peak load of the power grid with the relatively reasonable average-load-rate and increasing utilization hours of the substations, delay the construction investment of the.

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