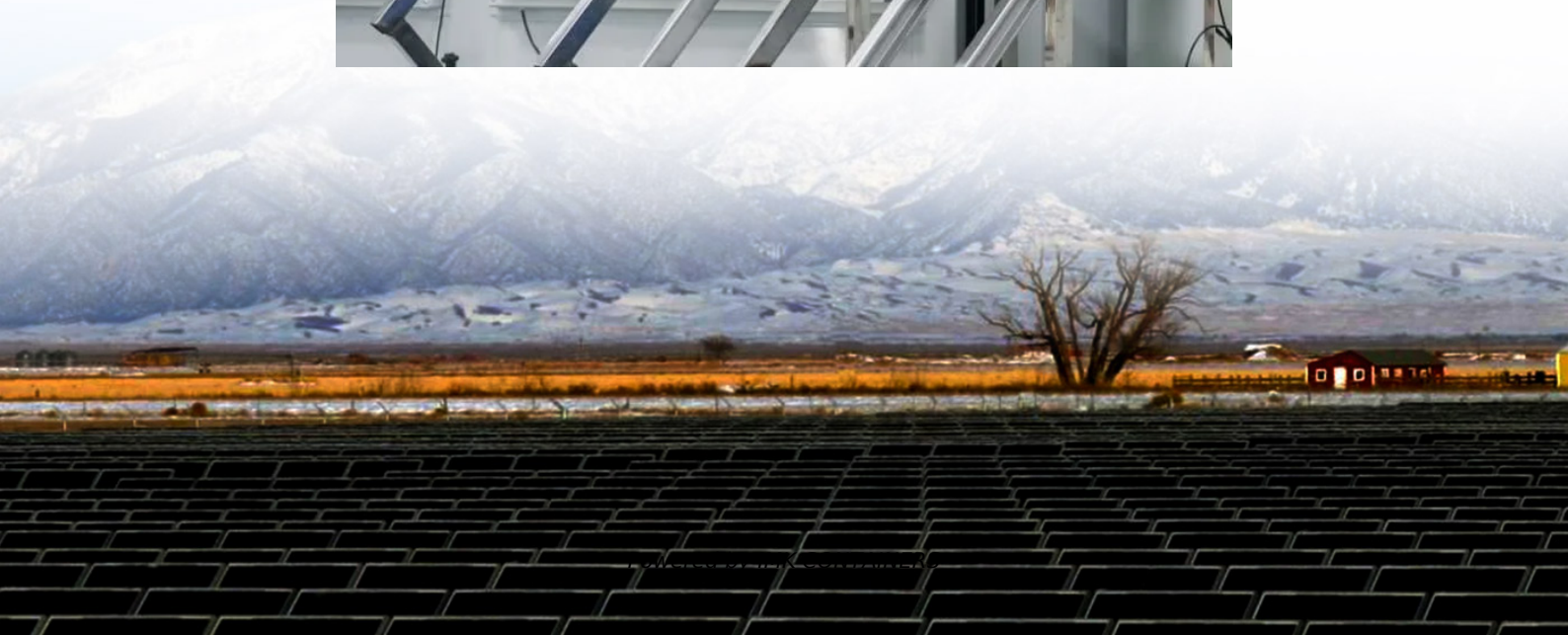


Wind-solar-storage and source- grid-load-storage





Overview

What is integrated source-grid-load-storage?

With the emergence of strategies for carbon neutrality and the development of a new power system, local governments are actively promoting the construction of integrated source-grid-load-storage systems in industrial development zones with a high proportion of renewable energy (hereinafter referred to as integrated systems) .

How to optimize the operation of the wind-solar-storage-hydrogen system?

Optimized operation of the system considering source-load uncertainty: based on the multi-scale source-load forecasts, a coordinated day-ahead and intra-day scheduling strategy is developed for the wind-solar-storage-hydrogen system. The specific steps involved are detailed in Section 3.2.

Can a wind-solar-storage-hydrogen system account for change in source load?

In this paper, an optimization method is presented for a wind-solar-storage-hydrogen system that accounts for the changing trends in source load. The key contents and conclusions are outlined as follows: A multi-scale forecasting model for source-load has been developed.

What is a wind-solar-storage-hydrogen system?

A wind-solar-storage-hydrogen system is developed to primarily utilize wind and solar energies with supplementary support from the power grid. A comprehensive mathematical model is formulated to integrate power generation, cooling, and energy storage components and characterize their operational characteristics.



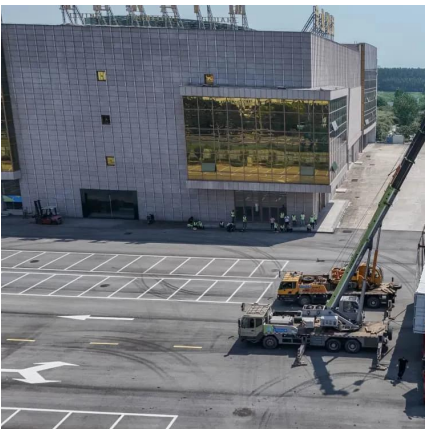
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