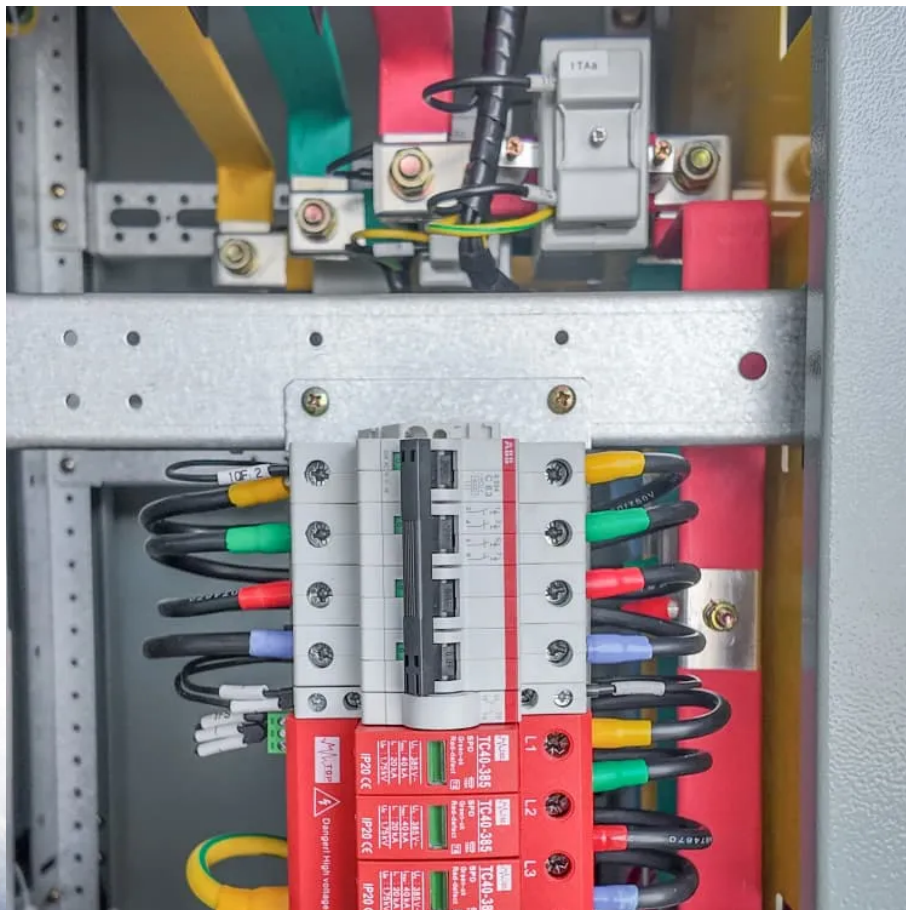


Solar container communication station wind and solar complementary lightning protection detection method





Overview

How do we solve the power complementary process among hydro-wind-solar-storage systems?

In the short-term power balance module of the integrated model, the power complementary process among hydro-wind-solar-storage systems is solved through nonlinear programming (Fig. 1).

Does a hydro-wind-solar-storage system have a short-term power balance?

To address this, we develop a medium-long-term complementary dispatch model incorporating short-term power balance for an integrated hydro-wind-solar-storage system. This model is applied to a REB containing 21.78 GW of combined wind power (WP) and photovoltaic (PV) capacity.

What is the statistical scope for PV and wind resources?

The statistical scope for PV resources is the combined output process of PVC1-2-3-4, and for wind resources, it is the output process of WPC1. Through the control experiment, it is found that the incremental power generation brought by the complementary operation is significant.

How can nonlinear programming optimization improve short-term hydropower output?

Through complementary operation, nonlinear programming optimization of short-term hydropower output successfully redistributed surplus energy from curtailment periods to shortage intervals while maintaining the same average hydropower output.



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