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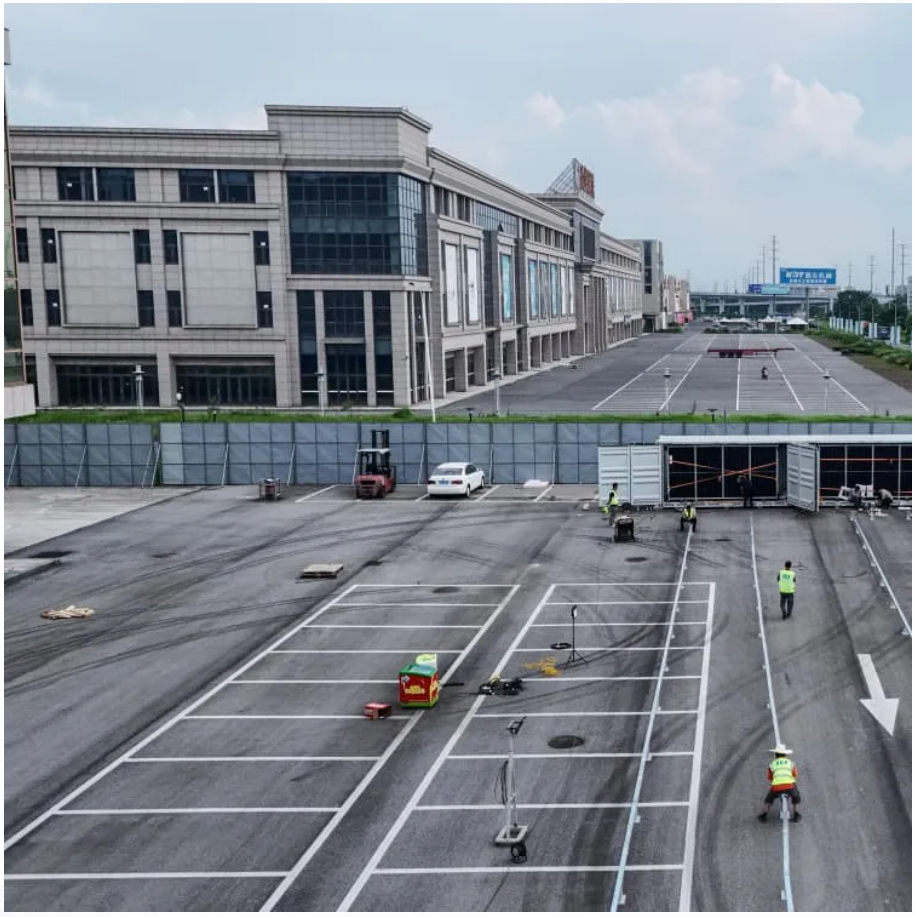
Multi-energy hybrid small solar power station



Overview

What are multi-energy hybrid power systems using solar energy?

The multi-energy hybrid power systems using solar energy can be generally grouped in three categories. The first category is the hybrid complement of solar and fossil energies, including solar-coal, solar-oil and solar-natural gas hybrid systems.

What is a hybrid solar system?

The hybrid system included an ORC device, a carbon dioxide power plant, a Kalina power cycle and a multi-effect desalination system. In that hybrid system, gas-fired system was used for generating power and driving the ORC. Part of the heat required for the Kalina power cycle was provided by the flat solar collectors.

What is a solar-nuclear energy hybrid system?

The second is the combination of solar and other renewable energies, mainly including solar-biomass, solar-geothermal and solar-wind (or solar-wind-hydro). The third is the solar-nuclear energy hybrid system as nuclear energy is non-renewable as well as non-fossil.

Can a solar-biomass hybrid power system work without energy storage device?

A solar-biomass hybrid power system without energy storage device was proposed by Srinivase and Reddy . The behaviour of the hybrid system under different solar intensity conditions was analyzed. The results demonstrate that under the specified condition, the system cycle efficiency was 27 %.

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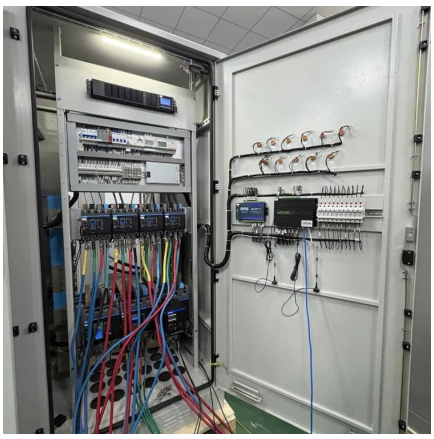

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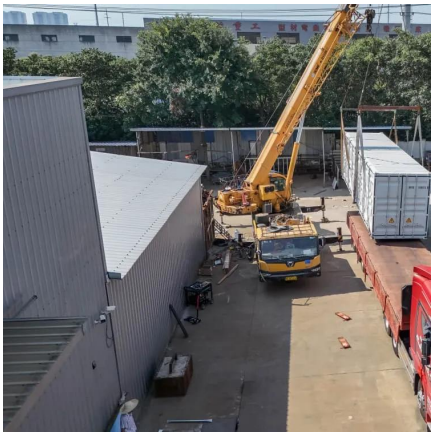
of the PHS station. The optimization results showed that the model improves the utilization ratio and cost-effectiveness of wind energy. Xiao

et al. [20] investigated the power supply reliability ...



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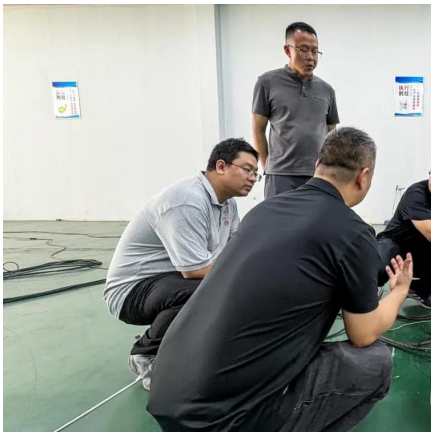

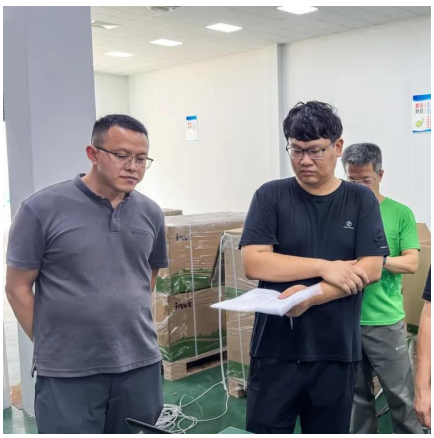

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