

In order to compensate for the shortcomings of a single energy supply, various renewable energy sources (e.g., hydrogen fuel cells, solar energy, batteries, supercapacitors, etc.) and non-renewable energy sources (e.g., fossil energies) can be helpful when combined together using multi-physics control systems to form a multi-energy hybrid power system for ...

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A Path of Multi-Energy Hybrids of Concentrating Solar Energy and Carbon Fuels for Low CO₂ Emission
Hui Hong, 1, 2,* Lin Gao, 1, 2 Yawen Zheng, 1, 2 Xueli Xing, 1, 2 Fan Sun, 3 Taixiu Liu, 1, 2 ...

The developments of energy storage and multi-energy complementary technologies can solve this problem of solar energy to a certain degree. The multi-energy hybrid power systems using solar energy can be generally grouped in three categories, which are solar-fossil, solar-renewable and solar-nuclear energy hybrid systems. For different kinds of ...

The cement sector, one of the core components of heavy industry, faces a particularly daunting task. Cement manufacturers are looking to cut emissions but must confront the operational reality of maintaining the extremely high ...

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The source-side energy cycle of the system begins with the PV/T component. The fluid in the PV/T collector absorbs solar energy and then stores it in the hot water storage tank. This stored thermal energy is utilized as a heat source for the water-water heat pump unit. In addition to solar energy, the fluid also absorbs geothermal energy from ...

This article investigates the application and physical mechanism exploration of distributed collaborative optimization algorithms in building multi-energy complementary energy systems, in response to the ...

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