Wei Solar Power Generation System

Here we present an integrated desalination-power generation-cultivation trinity system. All from solar energy, we could obtain fresh water, electric power and crop cultivation media.

The construction of solar power plants in remote areas reduces the energy losses associated with long-distance transmission. o Unlike traditional power plants, modular solar energy ...

DC to AC converter converts DC power produced to AC power to be supplied to the island for use. The design and simulation were performed in MATLAB Simulink and the result shows the effectiveness of ...

My research interests include applied optimization and energy system economics, with special emphasis on the interdependent energy networks and transportation electrification.

The integration of large-scale regional water-wind-solar hybrid energy systems poses challenges to power grid stability due to persistent fluctuations that conventional automatic ...

Solar photovoltaic/thermal (PV/T) technologies have attracted great attention and have been widely studied in recent years.

This research proposes a novel AI-enhanced hybrid solar energy framework integrating spatio-temporal forecasting, adaptive control, and decentralized energy trading.

Solar-powered vapor evaporation (SVG), based on the liquid-gas phase conversion concept using solar energy, has been given close attention as a promising technology to address the ...

To develop a potential salt in a solar power generation system, some important properties must be determined, such as thermal conductivity, viscosity etc. over the entire operating...

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