Xi an Base Station Computer Room Hybrid Energy Residential Building

Integrating electric technologies such as photovoltaics (PV), energy storage, heat pumps, and electric vehicle (EV) charging systems is pivotal for increasing energy independence and ...

Residential energy-informed urban planning offers an economical and easy-to-operate approach to achieve more efficient urban energy utilization. However, quantifying the interactions ...

This paper use Energy Plus to simulate indoor thermal environment and use CFD to simulate indoor air flow for Xi"an residential building, analysis the influence that different ventilation mode for indoor ...

This study investigates the development, simulation, and performance optimization of a solar-assisted hybrid energy solution tailored for a small hotel located in Xi"an, China.

Firstly, we investigated energy use behaviors in dwellings across three cities in China: Xi"an, Shanghai and Fuzhou. Then, we established calibrated carbon emission models and ...

This study presents an innovative hybrid energy system integrating wind power and gas turbines for a four-story, 16-unit residential building. The system generates electricity, heating, ...

Urban form renewal strategies are urgently required to improve the diffusion of building heat emissions (BHEs). In this study, the impacts of BHEs on the outdoor airflow and air temperature ...

In this study, we used a simulation method that could describe the urban block form - outdoor climate - building energy demand nexus to discover the effects of the VMP on the building ...

An intelligent building energy system which has power grid, autonomous generators, renewable energy resources, storage devices, and controllable loads has been proposed.

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