Is solar air conditioning in Jordan viable

This study examined two different options: a coupled PV and air conditioner system and a solar cooling system (absorption chillers where thermal energy is provided by solar collectors) for a specific ...

In the recent years, solar cooling technologies for buildings have garnered increased attention. This study aimed to evaluate the performance of current solar thermal and solar photovoltaic (PV) ...

Using solar energy, Jordan can cool buildings in a climate friendly manner. Jordan has a rapidly increasing demand for air-conditioning. Currently, the available technologies in the region are ...

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This study investigates the potential of using the technology of cooling air by solar energy (CASE) for airconditioning applications to minimize the consumption of energy in Jordan.

The study conducts a combined experimental and simulation analysis to assess the techno-economic performance of both on-grid and off-grid solar-powered air conditioners in the ...

The project will be aligned with Jordan"s low carbon efforts and strategies, including the new Renewable Energy & Energy Efficiency Law, the phasing out of Hydrochlorofluorocarbons (HCFCs) and Jordan"s ...

This study, while emphasizing the theoretical methodology, concentrates on the application of using solar air cooling with a 2-stages adsorption chiller in a developing country: Jordan, and...

The solar thermal and solar PV air-conditioning systems were designed and simulated to compensate the cooling demands. It was found that the annual cooling energy accounted for 96.3 % of the total ...

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