The most EK research results of solar air conditioning

Results eventually show that using ERW along air path of desiccant-assisted DOAS may save primary energy between 7.5 to 20.9% compared to evaporative cooling and cooling coil ...

The popular SCACSs driven by solar thermal energy are elaborated in detail, considering their operation and development aspects. A comparison among solar thermal SCACSs is performed, taking into ...

This paper presents and discusses a general overview of solar cooling and air-conditioning systems (SCACSs) used for building applications. The popular SCACSs driven by solar ...

This study presents the performance of solar-assisted air-conditioning system with two chilled water storage tanks installed in the Solar Energy Research Center building.

Air conditioning and refrigeration are the two major energy-consuming appliances in many households in India. Solar energy can be utilized to power these appliances, reducing the dependence on ...

This study aims to evaluate the impact of air-conditioning on both the technical performance and economic viability of solar inverters in rooftop photovoltaic (PV) systems under ...

Some research gaps, recommendations, and conclusions are derived from the reviewed literature to understand and further develop this essential research domain.

The study titled "Techno-economic analysis of a hybrid solar air conditioning system for industrial applications" by Chen et al. (2019) Offers a complete technological and monetary assessment of an ...

An experimental platform of solar powered air conditioning with microencapsulated phase change material (MEPCM) cooling storage system was carried out to evaluate the efficiency of the ...

This study will also examine the current challenges involved with using solar energy in cooling applications, as well as the possible benefits that may help pave the way for more research ...

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