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Title: Introduction of Solar Air Conditioning in Iraq

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This study evaluates the economic viability of a solar-assisted air conditioning system over its operational lifespan using the levelised cost of cooling (LCOC) and simple ...

Solar thermal-driven air conditioning systems integrated with thermal energy storage are promising to reduce electrical energy consumption in the severe summer

The research has been studied for building in Iraq in order to assess the current situation of its air conditioning systems and recommend the possibility of using other modern technology that ...

The purpose of the current study is to evaluate the feasibility of using an air conditioning unit for cooling a residential building, powered by solar energy in the conditions of Iraqi Kurdistan. ...

Aiming at usage of renewable energy sources, the proposed system uses solar collectors as auxiliary solar thermal compressors and integrate them with air conditioning systems. The ...

The present research paper is on photovoltaic air conditioning system using the direct drive method. The experimental system setup ...

The results of the research attest to the potential use for solar absorption cooling in Iraq climate, while also providing motivation for further research into the application and reduction of ...

This study evaluates the economic viability of a solar-assisted air conditioning system over its operational lifespan using the levelised ...

A numerical study was carried out to assess the practicality of running inverter air conditioner directly on

photovoltaic cells in the climatic conditions of Iraq.

The present research paper is on photovoltaic air conditioning system using the direct drive method. The experimental system setup arranged in Iraq at Al-taje site at longitude ...

This study presents a comprehensive demand-side management (DSM) strategy integrating solar hybrid room air conditioners (RACs) to enhance energy efficiency in ...

Numerical Study of the Potential of Operation the Direct Driven Solar Air Conditioner with PV Cells in Iraq's Weather

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