

Baghdad Solar Air Conditioning Program Design





Overview

This paper presents an efficient methodology to design modified evaporative air-cooler for winter air-conditioning in Baghdad city as well as using it for summer air-conditioning by adding a heating process after the humidification process. laboratory tests were performed on a direct evaporative cooler (DEC) followed by passing the air on hot water through heat exchanger placed in the coolers air duct exit.



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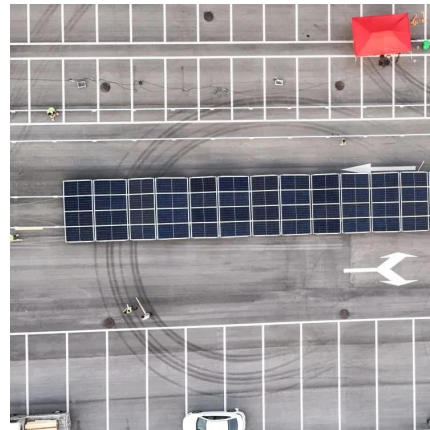


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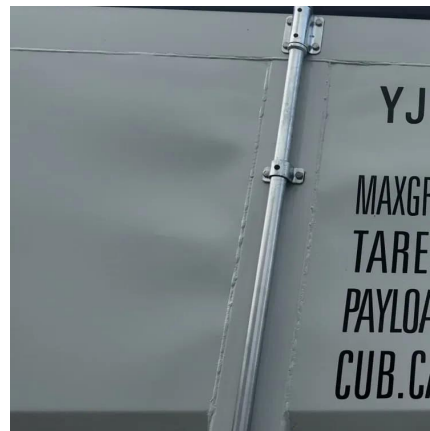
[Average temperature and humidity for ...](#)

As residential air-conditioning usage increases, so does the demand on the country's electrical power infrastructure resulting in more frequent power ...



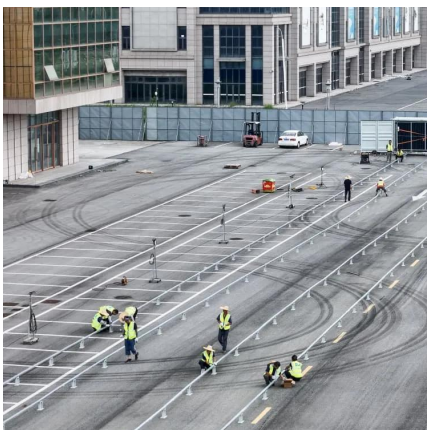
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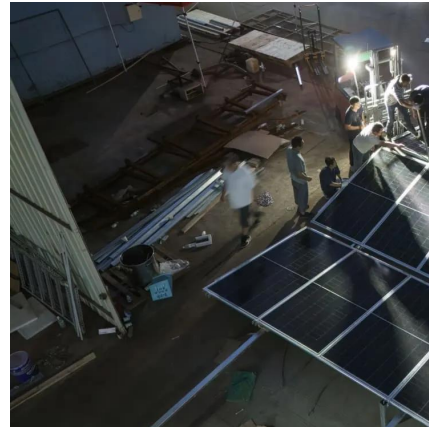
May 23, 2020 · The aim of this work is to investigate the energy performance of a solar-driven air-conditioning system utilizing absorption technology under climate in Baghdad, Iraq.





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Solar chimney has been frequently adopted in buildings to save energy by enhancing the natural ventilation (Shi et al., 2019). It can be defined as a natural-draft system that uses solar ...

A New Design of an Integrated Solar Absorption Cooling ...

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The aim of this work is to investigate the energy performance of a solar-driven air-conditioning system utilizing absorption technology under climate in Baghdad, Iraq. The solar fraction and ...



[A New Design of an Integrated Solar Absorption Cooling ...](#)

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Testing the performance of a solar energy cooling system in Baghdad ...

The Testing the performance of a solar energy cooling system in Baghdad city 291 ftechnologies in the field of renewable ener- revealed that the air temperature inside the gy are used also to ...



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