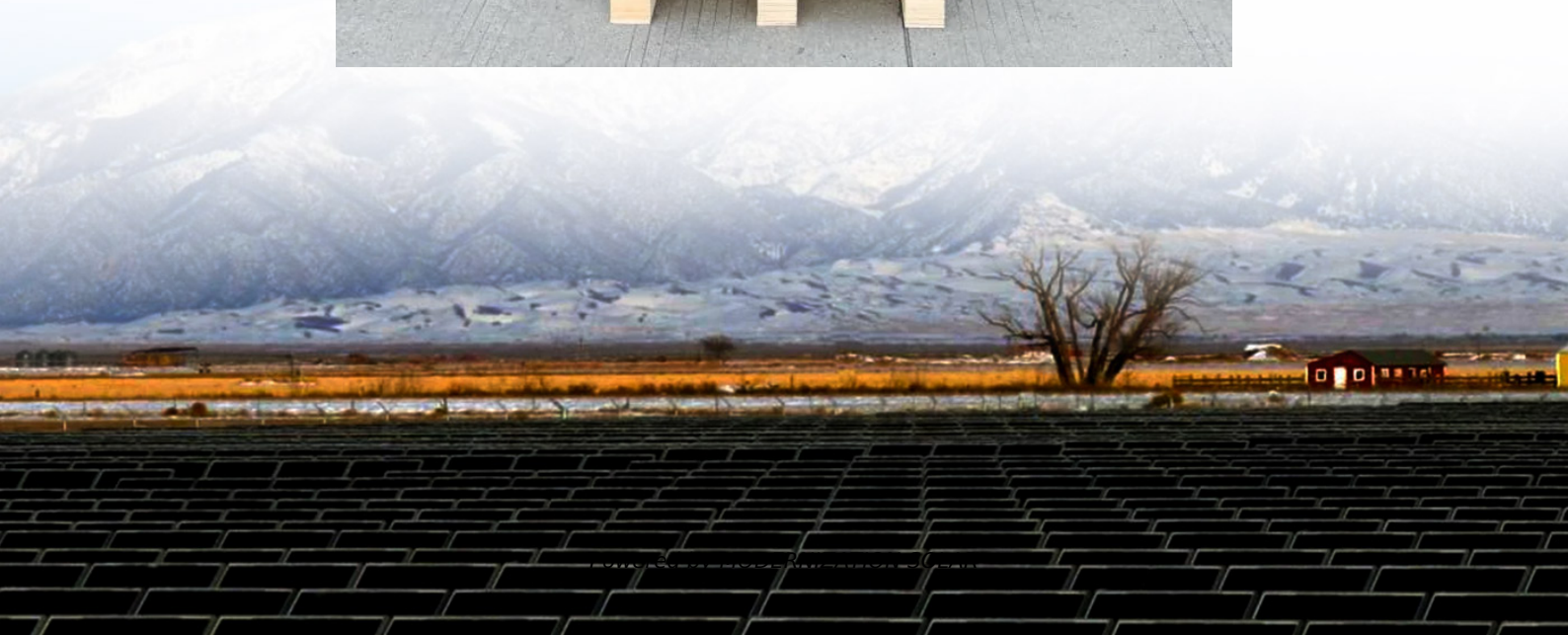


Niamey Solar Air Conditioning Design





Overview

What is the new design of solar air-conditioning system?

The new design is based on the coupling between solar chimney and solar air-conditioning system. The waste heat of solar chimney is recovered in order to be used to regenerate desiccant dehumidifier and to drive adsorption chiller.

Can a solar air conditioning system be used in non-electrified areas?

The air conditioning system can be operated on solar and can be used in non-electrified areas. As we all known, solar energy is cost effective, renewable and environmentally friendly. Content may be subject to copyright. Content may be subject to copyright. 1876-6102 © 2013 The Authors.

Are solar-powered air conditioning systems a must in every building?

In the recent years, progress on solar-powered air conditioning has increased and at present air conditioning system is almost a must in every building if there is a requirement for good indoor comfort inside the building.

What is the coupling between solar chimney and solar air-conditioning system?

A new idea, based on the coupling between solar chimney and solar air-conditioning system, is elaborated. The desiccant dehumidifier and the adsorption chiller, integrated in the solar air-conditioning system, are driven by the recovered waste heat of the solar chimney.



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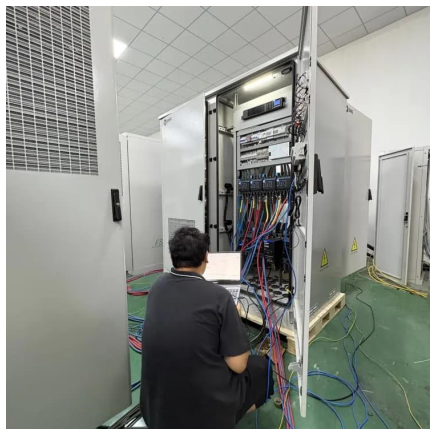
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