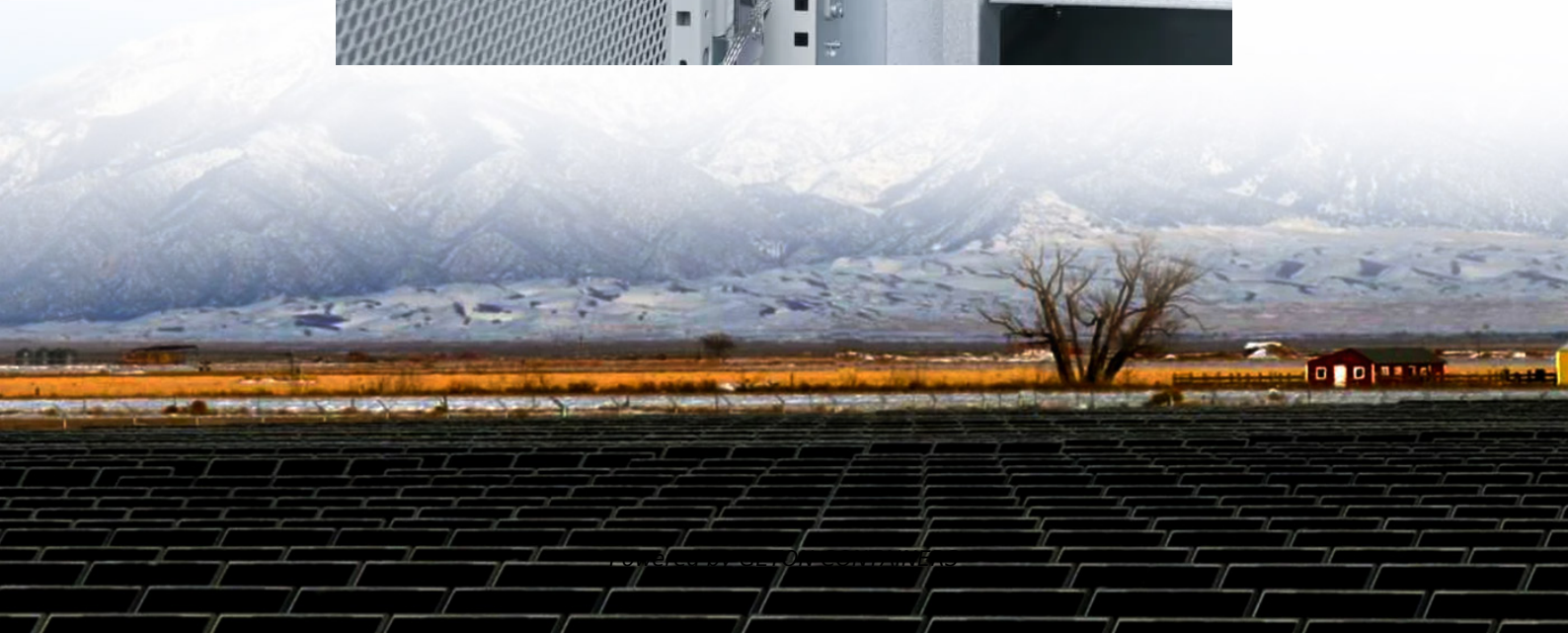


Profit model of solar air conditioner





Overview

Are solar thermal air conditioners a business model?

In the authors' previous study, Kalair et al. (2021) have presented a business model for solar thermal air conditioners for homes, cold storage, and data centers. Ten national and international respondents were interviewed semi-structured one-on-one, and their viewpoints were thematically examined.

Can solar thermal-assisted air conditioning be a business model design?

With solar thermal-assisted air conditioning as an idea, this research aims to establish an innovative business model design for engineers working on ingenious technologies and seeking commercialization.

Does a solar-assisted air conditioning system save energy?

The existing vapour-compression air conditioning system operating alone consumes more energy compared to that when supplemented with the solar-driven absorption chiller with AES. A maximum of 58% energy-saving is achieved from the integrated solar-assisted cooling system in July and August.

What is a value proposition for solar-assisted thermal air conditioning?

Value proposition canvas for solar-assisted thermal air conditioning using CO₂. (Adopted from Osterwalder and Pigneur (2010), Strategyzer AG (2018a))
The air-conditioning industry is exploiting new smart and connected systems to improve the cooling process's flexibility and efficiency.



Profit model of solar air conditioner



[Solar PV-powered Room Air Conditioning: ...](#)

This study explores the economic and technical potential of solar-powered air conditioning systems to reduce greenhouse gas emissions from buildings in 17 countries.

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Economic analysis of a novel solar-assisted air conditioning system

The existing vapour-compression air conditioning system operating alone consumes more energy compared to that when supplemented with the solar-driven absorption chiller with ...

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[Global Solar Air Conditioner Market Report 2025 Edition, ...](#)

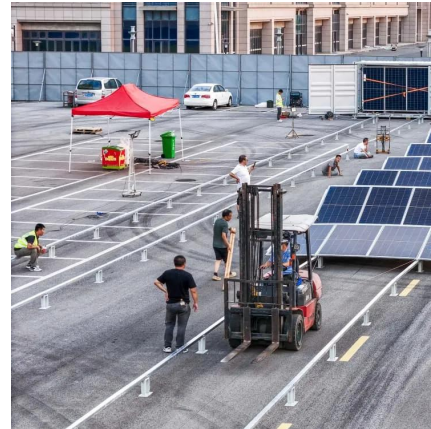
Global Solar Air Conditioner market size 2021 was recorded \$1520.16 Million whereas by the end of 2025 it will reach \$2435 Million. According to the author, by 2033 Solar Air Conditioner ...

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Solar Air Conditioning Market Size Was Valued at USD 544.5 Million in 2023, and is Projected to Reach USD 742.10 Million by 2032, Growing at a CAGR of 3.5 % From 2024-2032.

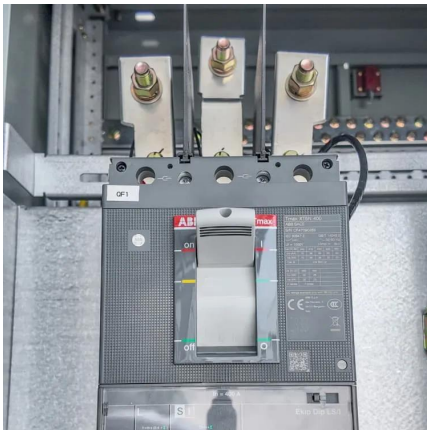
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