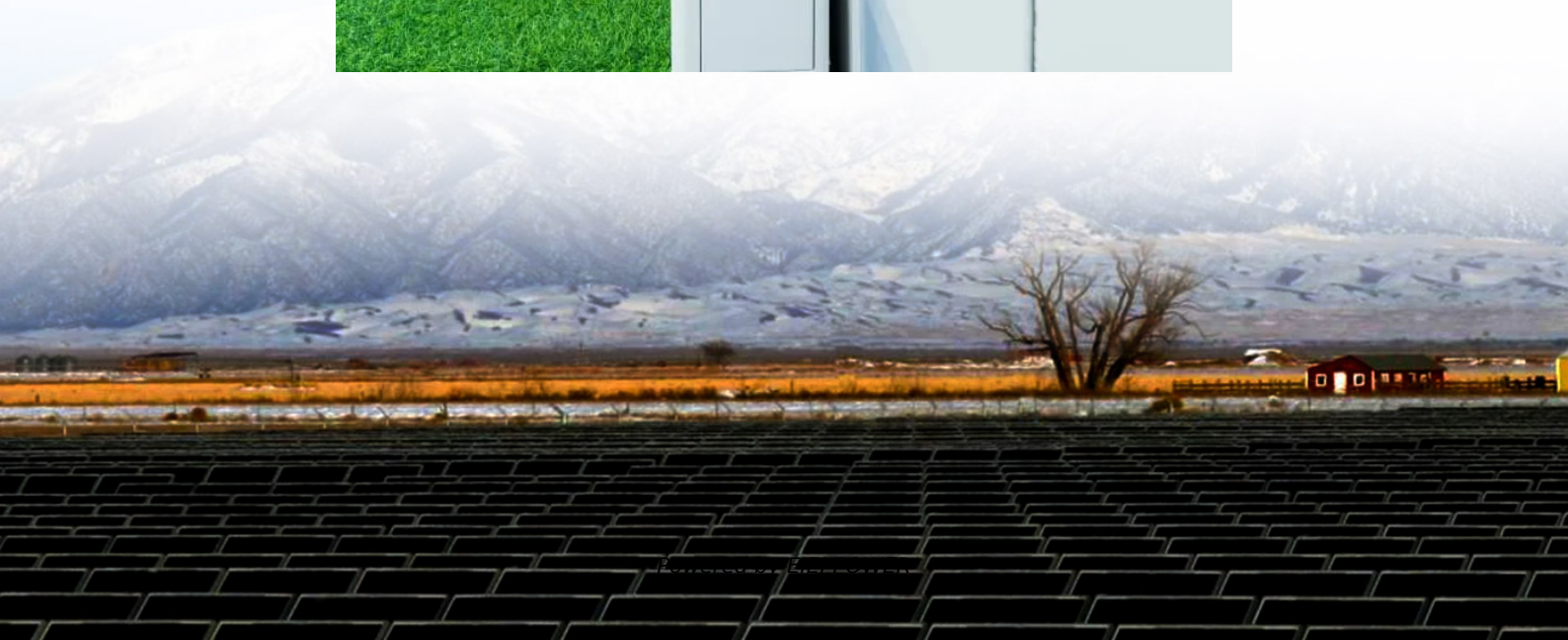


Southern Europe Solar Air Conditioning Recommendations





Overview

Summer air conditioning represents a growing market in buildings worldwide, with a particularly significant growth rate observed in European commercial and residential buildings. Heat-driven cooling technol.

What is SACE (solar air conditioning in Europe)?

The SACE (Solar Air Conditioning in Europe) project was initiated in early 2002 and conducted over the next 2 years by a group of researchers from five countries, supported by the European Commission.

Are solar cooling systems economically feasible?

Tsoutsos et al. present a study of the economic feasibility of solar cooling technologies. Karagiorgas et al. investigated the application of renewable technologies in the European tourism industry and identified a large number of solar thermal systems but only a few solar cooling systems.

Does solar air conditioning save energy?

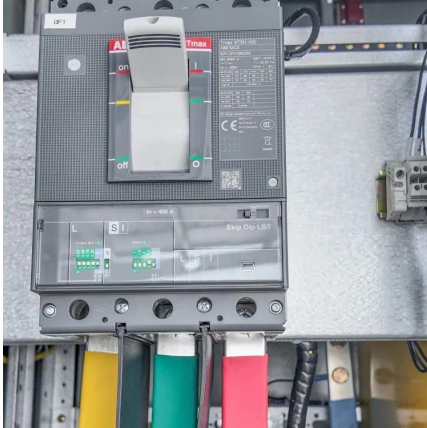
Conclusions Solar air conditioning has a strong potential for significant primary energy savings. In particular, for southern European and Mediterranean areas, solar assisted cooling systems can lead to primary energy savings in the range of 40–50%. Related cost of saved primary energy lies at about 0.07 €/kW h for the most promising conditions.

How much space does an air conditioner use a year?

Total air-conditioned floor space has grown from 30 million m² in 1980 to over 150 million m² in 2000. Annual energy use of room air conditioners was 6 TJ in 1990, 40 TJ in 1996 and is estimated to reach 160 TJ in 2010.



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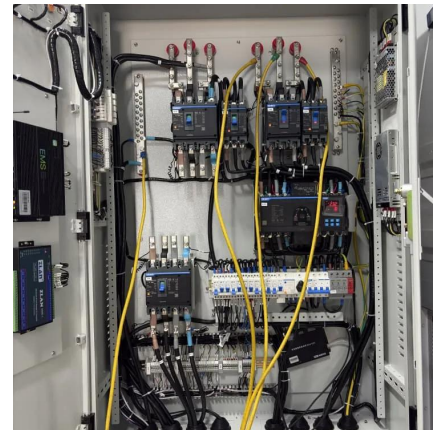


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The Europe Solar Air Conditioning Market is witnessing rapid growth as demand for energy-efficient and sustainable cooling solutions rises across residential, commercial, and industrial ...

[Solar air conditioning in Europe--an overview](#)

Feb 1, 2007 · The paper presents a short overview on the state-of-the-art and potential of solar-assisted cooling and air conditioning technologies. The results of the study, including a ...



[Solar Heating and Cooling & Solar Air-Conditioning](#)

Mar 4, 2019 · Solar Cooling - Position Paper The purpose of this paper is to provide relevant information to energy policymakers so that they can understand why and how solar cooling ...

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Nov 12, 2021 · Solar Air-Conditioning in Europe Chinese Solar Cooling Conference, Shanghai Jiao Tong University, China, 27.03.2015 Dr. Uli Jakob Green Chiller - Association for Sorption ...



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...

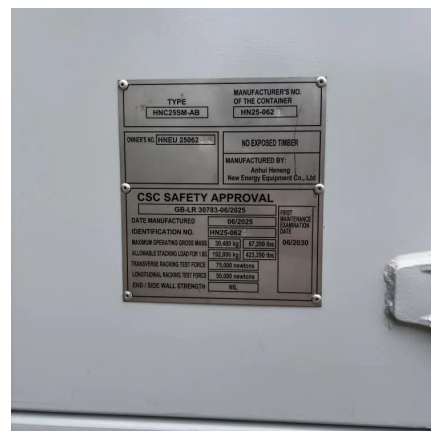
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Solar thermal heating for domestic hot water and space heating has grown considerably over the years and is well established in several countries, while solar air-conditioning is an emerging ...





[Photovoltaic-powered Air Conditioning in Buildings](#)

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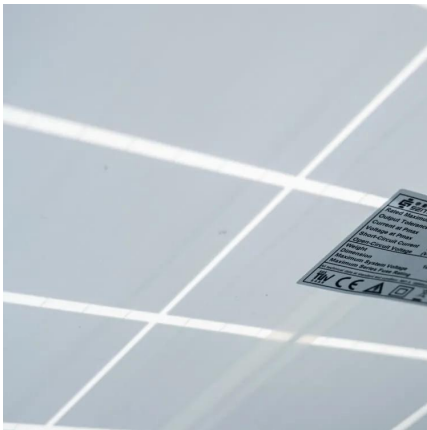
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