

# EU Solar Air Conditioning





## Overview

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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.

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.

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.

How much space does an air conditioner use a year?

Total air-conditioned floor space has grown from 30 million m<sup>2</sup> in 1980 to over 150 million m<sup>2</sup> 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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Solar thermal energy is being explored as a viable option for air conditioning in Europe, particularly in response to increasing demand for cooling in commercial and residential ...

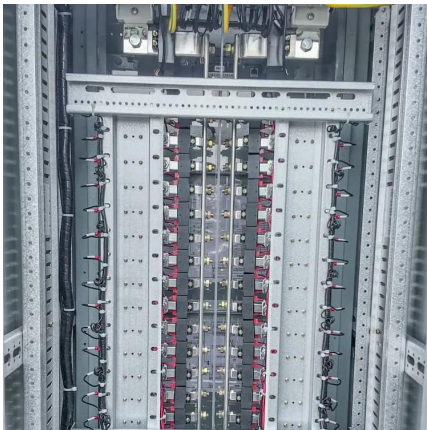
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Mar 21, 2002 · Air conditioning of commercial and residential buildings is a major and fast-growing energy consuming sector, especially in Mediterranean countries. Various European research ...

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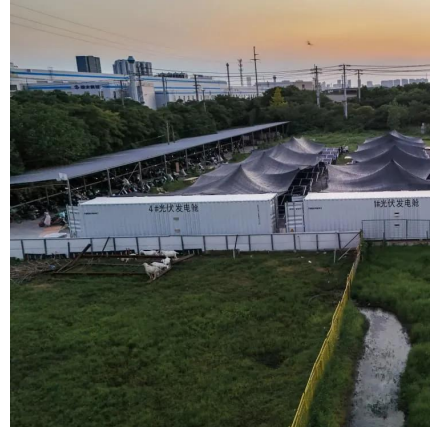
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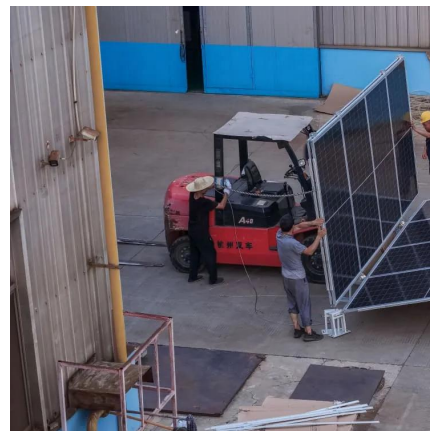


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