

Title: Southern Europe Solar Air Conditioning Recommendations

Generated on: 2026-02-28 10:27:56

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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.

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 EUR/kW h for the most promising conditions.

Is reliance on energy-guzzling air-conditioning a sustainable solution?

Cooling experts say that increased reliance on energy-guzzling air-conditioning is not a sustainable solution. Conventional cooling devices, including air-conditioners and refrigerators, already account for as much as 10 percent of all global greenhouse gas emissions, according to a World Bank report published in 2019.

Technological improvements in PV modules, solar thermal collectors, and energy storage systems are enhancing the efficiency and reliability of solar air conditioning in Europe.

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