

What is the solar energy potential in Jordan?

The solar energy potential in Jordan is enormous as it lies within the solar belt of the world with average solar radiation ranging between 5 and 7 KWh/m<sup>2</sup>, which implies a potential of at least 1000GWh per year annually. Solar energy, like other forms of alternative energy, remains underutilized in Jordan.

Could solar cooling be a viable alternative to traditional air conditioning?

From the outset, solar cooling systems were planned to be cost-effective and environmentally friendly alternatives for many developing nations situated in hot climates, which could replace the traditional air conditioning systems where the supplied power is electricity generated from fossil fuels.

Is solar energy a good choice for refrigeration and air conditioning?

Refrigeration and air conditioning that is driven by solar energy is specifically advantageous for countries with increased ambient temperatures and solar radiation rates. Compared with fossil fuels, solar radiation is both sustainable and renewable and is available when the demand for cooling is at its highest.

The solar PV and solar thermal air-conditioning systems compensated for direct cooling by 35.8 % and 30.9 %, respectively, and the corresponding compensations of cooling energy by the storage...

This study examined two different options: a coupled PV and air conditioner system and a solar cooling system (absorption chillers where thermal energy is provided by solar collectors) for a specific developing country located in the Eastern Mediterranean region whose climate is hot and dry (Jordan).

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**Industrial Solar Cooling in Jordan** As part of a sectoral mitigation strategy, this project laid the foundations for largely CO<sub>2</sub>-free air conditioning and refrigeration based on solar energy. To this end, it established partnerships between German and Jordan companies and institutes involved in cooling machines.

Under a 4.3-million-euro programme funded by the German international cooperation agency (GIZ) to introduce thermal cooling technology to Jordan and the region, four sites in Jordan are now equipped with units that turn ...

Jordan is showing rapidly increasing demand for air-conditioning. Total annual emissions from cooling commercial buildings add up to 600,000 tonnes of CO<sub>2</sub>, an amount equal to emissions from about 120,000 passenger vehicles per year.

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Using solar energy, Jordan can cool buildings in a climate friendly manner. Jordan has a rapidly increasing demand for air-conditioning. Currently, the available technologies in the region are chillers with low efficiencies, refrigerants with ozone or climate-damaging effects, and high leakage rates.

Solar thermal driven refrigeration and air-conditioning (RAC) is particularly attractive to high ambient temperature countries with a high rate of solar radiation. Within a GIZ-project, two solar thermal cooling units using absorption technology and dry re-cooling were installed in Amman and Petra in 2015.

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