

A-Core Container

Solar power generation in Israel



Overview

The country installed 900 MW of photovoltaic (PV) capacity and 11 MW of biogas capacity, marking a decrease of about 200 MW compared to the 1.1 GW of new PV projects completed in 2023. How does Israeli solar power work?

Using energy from the sun, the tower generates enough electricity to power tens of thousands of homes. Completed in 2019, the plant showcases both the promise and the missteps of the Israeli solar industry, and it is a case study in the unpredictable challenges that await any country seeking to pivot from fossil fuels to renewable energy.

Does Israel need solar energy?

In 2009, Israel found natural gas reserves within their exclusive economic zone which may reduce urgency of solar development. Solar technology in Israel has advanced to the point where it is almost cost-competitive with fossil fuels.

Is solar a problem in Israel?

For Yosef Abramowitz, a leading Israeli energy entrepreneur, the real problem with the Israeli solar sector is that, at a time of climate crisis, it provides such a small proportion of Israel's energy needs — less than a fifth in 2021, according to government records.

Does Israel have a new electricity sector?

In June 2018, the Government of Israel approved a comprehensive structural reform in the Israeli electricity sector, planned to be implemented over the course of 8 years (2018-2026). As part of the reform, IEC's share in electricity generation will be reduced from 60% to 40%.

How is electricity generated in Israel?

Israel's electricity is currently generated almost exclusively by thermal power plants. The country's electricity system lacks hydroelectric resources, neither

conventional nor pumped storage, and is not interconnected with any system outside of Israel, except for 56 MWh imported from Jordan to the Jericho area.

Are Israeli engineers involved in concentrated solar power?

However, even though Israeli engineers have been involved in both photovoltaic and concentrated solar power, the earliest Israeli companies which have become market leaders in their respective fields have all been involved in concentrated solar power.

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