

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/m², which implies a potential of at least 1000GWh per year annually. Solar energy, like other forms of alternative energy, remains underutilized in Jordan.

How does Jordan support the development of solar energy?

In addition, Jordan has signed several agreements with international organizations and foreign governments to support the development of its solar energy sector. For example, in 2018, Jordan signed an agreement with the International Finance Corporation (IFC) to support the development of a 200 MW solar project in the country.

Does Jordan have a solar energy policy?

Jordan has implemented several policies to encourage the growth of solar energy in the country. In 2012, the government introduced a feed-in tariff system that offers a fixed rate for solar energy producers to sell their electricity to the grid.

What is the outlook for solar energy in Jordan?

Looking ahead, the outlook for solar energy in Jordan is positive. According to a report by the International Renewable Energy Agency (IRENA), Jordan is expected to increase its solar energy capacity to 2.7 GW by 2023, up from 1.7 GW in 2020.

Will Jordan increase its solar energy capacity by 2023?

According to a report by the International Renewable Energy Agency (IRENA), Jordan is expected to increase its solar energy capacity to 2.7 GW by 2023, up from 1.7 GW in 2020. This represents a significant increase in solar energy capacity and is expected to help reduce Jordan's reliance on imported fossil fuels.

What solar projects are being built in Jordan?

Jordan has several large-scale solar projects under construction or in the planning stages, including the 800 MW Al-Dhafra project, which is being developed by the Abu Dhabi National Energy Company (TAQA) and the 400 MW Al-Risha project, which is being developed by Saudi Arabia's ACWA Power.

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Renewable energy, especially solar PV, is profitable in the power sector and, together with decreased storage costs, presents a viable alternative to imported fuel-based solutions. Therefore, the Jordanian government has successfully produced 2,063.3 MW from whole wind and solar energy investments in 2020 (IRENA Citation 2021). According to ...

Jordan faces significant, immediate challenges of enhancing energy security while mitigating greenhouse gas emissions. One of the most promising approaches to achieve sustainable development, energy ... Expand

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The programme is implemented by Jordan Renewable Energy and Energy Efficiency Fund (JREEEF) of the ministry. The initiative offers subsidies covering 30 per cent of the cost of solar panel systems and solar water heaters, according to a ministry statement.

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Renewable Energy and Energy Efficiency Program (REEE II-TA) in Jordan based on previous strategies, developments, achievements and lessons learned to identify the available scenarios with the most appropriate options to develop an executive operational

Launched in 2008, Jordan's Renewable Energy and Energy Efficiency Programme included plans to develop 600 MW of new solar power projects by 2020, with the government signing 12 power purchase agreements (PPAs) expected to generate a combined 210 MW during the first phase of project tendering, in what the IFC described as the largest solar PV ...

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Solar energy is the most promising option since it is the most efficient in terms of investment [15, 16]. This is due to Jordan's location inside the solar belt, with daily solar radiation averaging between 4 and 8 kWh/m², and more than 310 sunny days yearly [14].

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