

SolarTech Power Solutions

Are Palestinian solar panels efficient



Overview

Is Palestine a good place for solar energy?

With 3,400 hours of sunlight per year and an average daily global solar radiation ranging from 6.15 to 8.27 kWh/m², Palestine has a great potential for solar energy. The capacity of rooftop solar systems to produce power in the WB and GS is 534 and 163 MW, respectively.

What is Palestine's energy strategy?

Palestine's approach is to prioritize high-emitting sectors such as, power generation (62 %), transport (15 %), and waste (23 %). The National Adaptation Plan is as: increase the share of renewable energy in electrical energy mix by 20–33 % by 2040, primarily from solar PV. Improve energy efficiency by 20 % across all sectors by 2030.

How is the electricity system in Palestine different from other countries?

And upgrade of the electricity grid to enable distribution of renewable energy, by 2030. The electrical energy system in Palestine state is different from any other country, because Palestine imports its energy from three different sources; from Israel (85 %), Jordan (2 %) and Egypt (3 %).

Does Palestine use solar water heaters?

Even though solar water heaters are widely used in Palestine, solar thermal energy only accounts for 8 % of the country's total energy consumption. In WB, 63.1 % of houses had solar water heaters in 2019, while the GS figure was 43.8 % and produced more than 600 GWh.

What is the average yield factor of solar systems in Palestine?

According to their research, the average yield factor of solar systems in Palestine is between 1,368 and 1,816 kWh/kWp annually, with a payback period between 5.7 and 7.4 years.

Can wind energy be used to generate electricity in Palestine?

When Hasan first looked into the possibility of using wind energy to generate electricity in Palestine in 1991, he came to the conclusion that areas with an elevation of 850 meters or more, including Ramallah and Jerusalem, have excellent energy potential . In some areas of the WB, wind energy may be produced at 0.07 \$/kWh .

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