

Does Palestine have solar energy?

The potential of solar energy in Palestine is high and promising, with 3000 solar hours per year, and average solar radiation on a horizontal surface 5.4 kW h/m<sup>2</sup>/day. 56% of Palestinian family units have Solar Water Heaters (SWH) framework on their rooftops. Palestine is the MENA nation with the most elevated utilization of SWH [4 ].

What is the future of solar energy in Palestine?

Solar energy can be a major contributor to the future Palestinian energy supply, with its high potential in the area. Palestine receives about 3,000 hours of sunshine per year and has an average solar radiation of 5.4 kWh/m. Domestic solar water heating (SWH) is widely used in Palestine where almost 70% of houses and apartments have such systems.

Why is solar power important in Palestine?

The solar power can be a key supplier of energy to the forthcoming generations in Palestine, due to the total amount of yearly sunshine's hours (3000 h) and annual solar radiation (5.4 kWh/m). Furthermore, solar water heating (SWH) is widely used in where about two third of residents own such systems.

How much PV power can be produced in Palestine?

In Palestine, the average values of specific PV power production from a reference system, described in Table 2, vary between 1700 and 1765 kWh/kWp for the selected three areas. A maximum value of energy that can be produced in Gaza and in the very southern region of the West Bank is higher than 1800 kWh/kWp.

How much do Palestinians spend on energy?

On average, households spend nearly 34 percent of their income on food and around 8.5 percent on energy (electricity and liquid gas). This reflects the vulnerability of Palestinians, especially the poor and marginal segments, and limits their ability to obtain the energy they need for daily use.

What is solar water heating in Palestine?

Palestine receives about 3,000 hours of sunshine per year and has an average solar radiation of 5.4 kWh/m. Domestic solar water heating (SWH) is widely used in Palestine where almost 70% of houses and apartments have such systems. Infact, Palestine is one of the leading countries in the field of SWH for domestic purpose.

Palestine is unable to produce its own solar power equipment to date. Therefore, any solar PV systems currently in place are generated through global and online suppliers or distributors. ...

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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 [11].

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Palestine can reduce reliance on imported energy carriers by deployment of clean energy systems, especially solar, geothermal and biomass. Palestinian areas has large alternative energy potential which can be harnessed by a futuristic energy policy, large-scale investments and strategic assistance from neighbouring countries like Jordan and Egypt.

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Recently, the Palestinian Cabinet has launched &quot;The Palestinian Solar Initiative&quot; advanced by the Palestinian Energy and Natural Resources Authority. The initiative aims at producing 5 megawatts of solar power during 2012-2014 (2 MW in the central West Bank, 1.5 MW in northern West Bank and 1.5 MW in southern West Bank).

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