

In this article, a PV system of 220 kW peak was proposed as a renewable resource of power generation for grid connected applications in residential quarter in north Palestine. The proposed system was simulated using MATLAB solver, in which the input parameters for the solver were the meteorological data for the selected location and the size of ...

The integration of small PV generators in the network tend to compensate for grid overloads, improve the voltage profile across the feeders, and reduce system losses overall - a huge benefit to Palestinians across the West Bank.

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The results show that, utilizing of PV systems for rural electrification in Palestine is economically more feasible than using diesel generators or extension of the high voltage electric grid. The obtained results represents also a helpful reference for energy planers in Palestine and justify the consideration of PV systems more seriously.

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Palestine has some potential of renewable energy sources that could make a change for the whole situation. For instance, Palestine has an estimated annual average daily solar energy in the range of (5.4 kWh/m² -6 kWh/m²) with sunshine hours over 3000 h per year.

The Palestinian territory has a high potential for solar power generation, as it receives around 3,000 hours of sunshine per year. As a result, the Palestinian Authority is looking to attract investments in the renewable energy sector.

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Solar energy is the only secured and viable energy source in Palestine, because it is abundant, has a high potential and it cannot be controlled by Israel. This high solar energy potential is demonstrated in an annual average solar radiation of 5.4 kWh/m²-day and a sunshine duration amounting to about 3000 h/year [1], [2].



Sukhig solar generator Palestine

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