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The International Finance Corporation (IFC), a member of the World Bank Group, supported the first private sector investments in domestic power supply in the West Bank and Gaza. Two distributed generation projects, PRICO Solar and Massader Solar, are bolstering power supply to help jump-start renewables and support economic development in the

SOLAR POWERED GENERATORS PALESTINE





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



Palestine has a high solar energy potential, where the daily average of solar radiation intensity on horizontal surface is 5.4 kWh/m2, while the total annual sunshine hours amounts to about ???



If Palestinians are granted full access to their land, particularly area C which is under full Israeli civil and security control, they can potentially produce 3000 MW of power from solar energy, generate a one-third increment in the budget, and reduce energy imports (Abu Hamed & Peric, 2020).

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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/m 2 ???6 kWh/m 2) with sunshine hours over 3000 h per year.



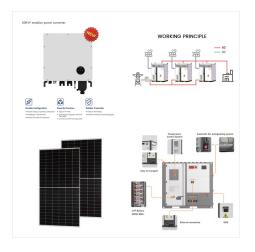
The main focus of this study, which makes it the most thorough in its sector, is showcasing Palestine's distinct renewable energy potentials (thermal solar, PV, wind, biomass, and hydropower). The System Advisor Model software (SAM) was used to predict the power potentials for a year.



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Palestine has a high solar energy potential, where the daily average of solar radiation intensity on horizontal surface is 5.4 kWh/m2, while the total annual sunshine hours amounts to about 3000 [1,3]. These figures are very encouraging to use PV generators for electrification of remote villages as it has been worldwide successfully used.



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In North Gaza, young Palestinian women are finding jobs installing solar panels with Anera ??? providing the power to pump and clean much needed water for local Palestinian farmers. These solar pumping stations increase access to water for ???