

Techno-Economic Evaluation of a Grid-Connected Solar PV Plant in Syria. [https://doi/10.3103/s0003701x1903006x](https://doi.org/10.3103/s0003701x1903006x) Journal: Applied Solar Energy, 2019, No 3, p. 174-188. Publisher: Allerton Press Authors: A. Ramadan, V. Elistratov List of references

TL;DR: In this paper, the authors analyzed the feasibility of installing a 300kW grid-connected solar photovoltaic (PV) plant in Syria, where Umm Al-Zaytun village in As-Suwayda province was chosen as a location of the plant, because it is characterized by high annual solar irradiance on the horizontal surface of about 1900 kW h/m<sup>2</sup>.

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Furthermore, the proposed solar power plant with 493 MWh/year can provide energy to 220 people per year while saving approximately 42.4 tonnes of oil equivalents annually and reducing carbon emissions by approximately 320.45 tCO<sub>2</sub> /year when the average annual electric power consumption in Syria is 2232 kWh . Utilizing the PVsyst approach, this ...

Solar power for Syria. Syria's power grid has been decimated by years of war, leaving millions with unreliable energy. The Union of Medical Care and Relief Organisations (UOSSM) has begun a project to install solar panels on hospitals to ensure that there is always power where it is needed most.

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During 2019 the city of Tartus on the Syrian coast is preparing to open the country's largest solar power project, at a capital cost of 5 billion Syrian pounds, the project has the total capacity of 5 MW and will generate around 9 million kW h per year.

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As a result, the proposed grid-connected PV solar plant is considered economically, technically and environmentally feasible in Syria. The 3D model of PV modules layout for proposed solar PV...

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