Concentrated solar power system Palestine

Is solar energy a reliable source of energy in Palestine?
In Palestine,solar energy is a reliable source of energydue to its high average radiation and sunshine rate per day (Daoud,2018),Yet,the yearly progress of the solar energy is around 1% only as indicated by the Palestinian Energy Authority (PEA) plan (PEA,2013). Fig. 1. PV panel project at Palestine Technical University - Kadoorie.

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 to solve the current energy issues in Palestine?
To solve the current energy issues in Palestine,the following recommendation are proposed to reduce the dependency on imported energy generated from non-renewable sources.

Can rooftop photovoltaic help the Palestinian Gird?
Rooftop photovoltaic can play a role for the Palestinian girdand recently,several PV systems have been implemented in the West Bank by government or private companies as shown in Table 4,it is recommended to share the successful experience to encourage more industries and institution to develop their own sustainable energy supply system.

Can a wind turbine be used on a rooftop in Palestinian cities?
Due to the high population in Palestinian cities and its full of high-rise residential building which is considered an advantage to the wind turbine when it utilized in the rooftop, a higher power generation can be generated wind turbine which can be completely manufactured locally (Juaidi et al., 2016). Fig. 12.

According to the results, all of the Palestinian territories have a high potential for PV power output within 1,700 kWh/kWp, while the maximum amount of energy that can be produced in Gaza and the southernmost part of the West Bank is higher than 1,800 kWh/kWp, and the system performance ratio (PR) for fixed mode has reached 80 %.

Solar power comes directly from the sun, here the sun power used to produce the electricity or collect the heat by a solar collectors systems to be used in factories. The concentrated solar Power (CSP) is much available and suitable with a reduction of ...

Palestinian Solar Initiative (PSI). With the exception of incentives for the Palestinian solar initiative, the first phase also contain preferable tariff specific to each type of power plants and year of operation, which is

reviewed annually by PERC.

The solar energy can be exploited to generate electricity through the technology of concentrated solar thermal power (CSP). This thesis discusses the feasibility of implementing CSP technology in Palestine provided that Palestine has enormous potential in solar energy. To generalize the study for all Palestinian regions the study includes

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The concentrated solar power (CSP) plants employ opposing formations of mirrors to concentrate the energy from the Sun to drive conventional steam turbine or engines that creates electricity. The concentrated stored thermal energy in a CSP system can be employed to yield electricity whenever desired (Kazem and Yousif, 2017).

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The potential of solar energy in Palestine using Photovoltaic (PV) and concentrating (CS) solar systems have been discussed. The present study can be considered as a road-map to get out of the electricity

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Trough Concentrated Solar System for Palestine: Case Study of Al-Arz Ice Cream Factory By Rand Hasan Abd Al-Fatah Khraisheh This Thesis was Defended Successfully on 21/1/2021 and Approved by: Defense Committee Members Signature

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Heat and Power CSP Concentrated solar power GCPVS Grid connected PV systems UFP Under frequency protection OFP Over frequency protection

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