

Palestine Liquid Cooling Energy Storage Project





Overview

Is solar cooling a viable option in Palestine?

Solar cooling has a good potential in Palestine and the region with few pilot projects (Juaidi et al., 2022). Crop and product drying has been traditionally practiced in Palestine; and a few systems were built by agricultural organizations (Abu Alwafa et al., 2021; Marzin et al., 2019).

What is the energy supply in Palestine?

In 2019, the total energy supply was 81,903 TJ of which about 85% is electricity, diesel, gasoline, kerosene, and LPG (PCBS, 2019). In the same year, the RE sources, namely solar energy, wood and charcoal, and olive cake, represented 13.66% of the energy mix in Palestine (PCBS, 2019).

Is bioenergy a viable long-term energy source in Palestine?

In Palestine, the use of various kinds of bioenergy is currently restricted and bioenergy is still not a viable long-term energy source for the above-mentioned reasons. According to data and based on environmental factors and successful projects in Palestine, the country has a good potential for bioenergy use for various applications.

How deep can a heat pump be used in Palestine?

Few projects have been identified in Palestine to use heat pump systems at a depth of 70–100 m which saves more than 50% in the energy consumption for heating and cooling (El-Kilani & Zaid, 2015).

What is the institutional framework of the energy sector in Palestine?

The institutional framework of the energy sector in Palestine consists of governmental and non-governmental institutions.

What is energy security in Palestine?



Energy security in Palestine over the upcoming 20 years is investigated using a Monte-Carlo simulation model that applies different RE adoption scenarios. In order to meet the Palestinian population's electrical energy needs in the near future, RE sources should be growing at an annual rate of about 5–10%.



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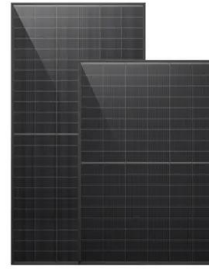
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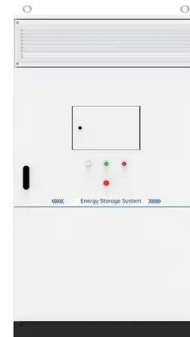
storage projects in the region. JinkoSolar'' s SunTera Liquid Cooling energy storage system will be a critical part of this project. The SunTera, a utility-specific targeted liquid cooling storage ...

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