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Title: 20MWh Palestinian Solar Energy Storage Unit for Bridges

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What is the electrical energy system in Palestine?

The electrical energy system in Palestine state is different from any other country, because Palestine imports its energy from three different sources; from Israel (85 %), Jordan (2 %) and Egypt (3 %). In addition to 140 MW capacity diesel-fired combined cycle power station.

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 TJof 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 sourcefor 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.

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