

Rwanda Large-Scale Solar Power Generation System





Overview

Currently, Rwanda's total on-grid installed solar energy is 12.050 MW originating from 3 solar power plants namely Jali power plant generating 0.25MW, Rwamagana Gigawatt generating 8.5 MW, and the Nasho Solar plant generating 3.3 MW. How many solar power plants are in Rwanda?

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Is Rwanda a significant source of solar energy?

Rwanda has a moderate source of solar energy, with an average solar radiation of 4 – 6 kWh per square meter per day. It has had a useful experience with the 250 kW Kigali solar project and solar water heaters. However, Rwanda's energy mix is currently dominated by biomass, which accounts for about 85% of primary energy use.

What is the current energy generation in Rwanda?

The current energy generation (2017) is at 210.9 MW installed capacity. Grid-connected generation capacity tripled since 2010. Power Generation mix is currently diversified as follow: hydro power 48%, thermal 32%, solar PV 5.7% , methane-to-power 14.3%. Rwanda has achieved 40.5% access rate.

Is there a market for solar energy in Rwanda?

Only few companies in Rwanda are active in the field of solar energy. They focus mainly on the market for larger systems for public institutions, e.g. hospitals, schools etc through public tenders. In addition they and others are also trying to sell solar home systems but the market for solar lanterns and small home systems is still in its infancy.



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Solar

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