



# Pros of solar energy Eswatini

Are solar panels a viable source of electricity in Eswatini?

Photovoltaic (PV) solar cells are increasingly prominent sources of small-scale electricity production in Eswatini. The government actively encourages the adoption of solar panels in residential and commercial buildings to provide both electricity and water heating.

Is Eswatini a sustainable country?

A nation that has long relied on neighboring South Africa and Mozambique for unsustainable fossil fuel-based electricity imports, renewable energy in Eswatini is quickly diversifying. The transformative journey culminated at the COP26 conference, where Eswatini committed to an ambitious 50% surge in renewable energy production by 2030.

What is the main energy source in Eswatini?

Hydroelectric power currently stands as one of the most prominent energy sources in Eswatini. The EEC operates four hydropower plants, constituting 15% of the country's electricity production and plans to bolster the existing infrastructure.

Can solar power help Eswatini achieve its electrification goals?

Although Eswatini's electrification rates are relatively high, they are still a long way off 100% (the country's target for 2022). Solar power is the most viable solution for Eswatini to help meet its electrification goals and save costs down the line.

Does Eswatini have electricity?

Despite being one of Africa's smallest countries, Eswatini has an impressive, diverse topography and climate. Unfortunately, its electricity infrastructure is not reliable.

Why is hydroelectric power important in Eswatini?

Projects such as these conserve millions of liters of fuel throughout their lifetime and ensure year-round reliable and sustainable electrification for public facilities. Hydroelectric power currently stands as one of the most prominent energy sources in Eswatini.

embedded solar generation as part of a broader vision for a cleaner, more sustainable future. "Embedded solar generation empowers energy users with greater control over their electricity needs, allowing businesses to lower operational costs, gain energy independence, and contribute to broader sustainability goals."

**MBABANE** - With the increasing demand for electricity, there is a significant opportunity for the further expansion of solar power in Eswatini, especially in the industrial and agricultural sectors. Eswatini's maximum local electricity demand was recorded to be 245.17 megawatts (MW) in 2020 and is expected to grow to 334 MW by 2035.

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Maximise annual solar PV output in Mbabane, Eswatini, by tilting solar panels 25degrees North. The location at Mbabane, Eswatini is pretty good for generating energy via solar PV ...

Governmental initiatives, alongside private sector investments, are focusing on harnessing Eswatini's abundant renewable energy potential, including hydroelectricity, solar power and biomass. The government is also ...

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The Eswatini Energy Regulatory Authority (ESERA) is finalising the procurement of 75 MW solar PV and 40 MW Biomass which will increase the share of renewables in the electricity

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6 ??? Looking into renewables, the policy brief shows that Eswatini's estimated theoretical and technical hydropower potential is 440MW and 110MW, respectively, while utility-scale solar potential is estimated at 542MW. "Given a short-term project demand of 310MW, this could plug the energy deficit, plus some," it said.

Plus, although Eswatini's electrification rates are relatively high, they are still a long way off 100% (the country's target for 2022). So, Eswatini looks towards renewable energy to help meet its electrification goals and save costs down the line -- and solar is the most viable solution.

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In Eswatini, the need for alternative energy sources has become more urgent than ever since the latest electricity tariff increases. Solar is the most abundant, fastest, and cheapest energy source on Earth, and it generates minimal greenhouse gas emissions.

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Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the classes (for comparison).

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