

## **São Tomé and Príncipe smart solar systems**

Is there a solar power plant in Sao Tome & Principe?

Also on the island of Príncipe, there are plans to develop a 4.5 MWp solar photovoltaic plant. Currently, the rate of renewable energy production in the energy mix in Sao Tome and Principe is 5% from the Contador hydroelectric plant with 1.9 MW.

Will Sao Tome & Principe get a 2 MW solar project?

The island nation of Sao Tome and Principe switched on the initial phase of its first 2 MW solar project in August. Construction of 1.4 MW of PV capacity is now underway at two airports, and developers plan to install a total of 1.7 MW by 2023.

Does Sao Tome & Principe have electricity?

The World Bank says Sao Tome and Principe has an electricity access rate of around 76%, with 92% of the total coming from imported diesel. The government has vowed to increase the proportion of renewable energy from 5% of the energy mix to 50% by 2030. This content is protected by copyright and may not be reused.

Where will solar power plants be installed in so Tomé?

The company will collaborate with the public utility Power and Water Company (EMAE) to install solar power plants across the country. The first phase of the program will include the installation of solar PV plants at the São Tomé international airport, as well as on the island of Príncipe, with capacities of 1.1 kW and 300 kW, respectively.

When will a 300 kW power plant be installed in Sao Tome?

Cleanwatts told pv magazine that it started developing 1.1 MW at Sao Tome airport and 300 kWp at Principe airport in August. It expects to complete the arrays by the end of this year. Another 300 kWp will be installed next year at other communities in Sao Tome.

Partnering with the country's public utility EMAE, we're set to install photovoltaic plants at São Tomé's national airport and on Príncipe Island. Spearheaded by our vice chairman Basilio Simoes, this project promises swift and impactful results, with the smaller installation expected to be operational in just three months.

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(NREAP), the grid system in São Tomé and Príncipe has losses of around 33%, of which 11% are technical losses, and the remaining 22% are commercial losses (EMAE 2019). The NEEAP states that the STP government aims to reduce the total grid losses to 30% by 2030 and 8% by 2050, limiting technical losses to 5% and commercial losses to 3%.

Working with the country's public utility, the Power & Water Company (EMAE), Cleanwatts will install solar PV plants across the country. The first phase of the programme will be to install solar PV plants at the national airports in São Tomé and Príncipe (1.100kW) and on the island of Príncipe (300kW).

The Government of São Tomé and Príncipe (STP) through the Directorate General for Natural Resources and Energy, is creating mechanisms to promote necessary measures to meet national energy policies, in a situation of restricted fiscal policy, aiming at increasing the share of renewable energy into the national energy mix.

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"As of 2020, the Government of Sao Tome and Principe is planning for the hybridization of one of the main thermal power plants (Santo Amaro) with solar photovoltaic technology through the Energy Transition and Institutional Support

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São Tome and Principe has been working in collaboration with UNIDO, the World Bank, UNDP and other organisations to implement renewable energy projects in the country. The most advanced renewable energy project currently is the Santo Amaro solar photovoltaic power plant with 2.2 MWp, which is expected to be operational in early 2022.

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S&#227;o Tom&#223; and Pr&#237;ncipe, an island State off the west coast of Africa, is the continent's second smallest country, with a population of around 225000 (World Bank, 2023) and an area of less than 900 square

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