



# São Tomé and Príncipe solar energy utilisation

Does Sao Tome & Principe have solar power?

According to data from the International Renewable Energy Agency (IRENA), Sao Tome and Principe did not have any grid-connected solar generation capacity installed at the end of 2021. 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.

What is the energy supply in Sao Tome & Principe?

ENERGY PROFILE Sao Tome and Principe		ENERGY PROFILE Total Energy Supply (TES) 2015 2020																				
Non-renewable (TJ)	1 692	1 964	Renewable (TJ)	1 044	1 072	Total (TJ)	2 736	3 036	Renewable share (%)	38	35											
Growth in TES 2015-20		2019-20		Non-renewable (%)		+16.1		+2.1		Renewable (%)		+2.7		+1.1		Total (%)		+11.0		+1.8		
Primary energy trade 2015 2020																						

What is the biomass potential of Sao Tome PN?

World	Sao Tome Prn	Biomass potential: net primary production	Indicators of renewable resource potential														
Sao Tome Prn	0%	20%	40%	60%	80%	100%	area &lt;260	560	260	-420	670	560	820	-670	-820	-1060	&gt;1060
Wind power density at 100m height (W/m2)																	

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.

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.

Portuguese cleantech company Cleanwatts has signed an agreement with São Tomé and Príncipe in Africa for the production and sale of clean energy. The company will collaborate with the public utility Power and Water Company (EMAE) to install solar power plants across the country.

Solar energy, with its strong decentralized potential, is an energy potential for Santomeans in rural and peri-urban areas. Since the colonial era, STP has been supporting its renewable potential and intends to intensify its use, particularly hydro energy.

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Additional notes: Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. The value of energy trade has been defined as ...

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The government of Sao Tome and Príncipe and Portugal-based Cleanwatts have signed a contract to develop 1.7 MW of solar in the West African island nation. The ...

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The project consists of the installation of hybrid solar photovoltaic (PV) systems with solar PV generators and batteries in the country's 45 public-sector healthcare facilities. Moving forward, the Partnership will continue to support São Tomé and Príncipe; ...

"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

As of 2022, the electricity consumption in São Tomé and Príncipe is heavily reliant on fossil fuels, which account for more than 90% of the electricity mix. This high dependence on fossil energy contributes significantly to climate change and air pollution.

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 ...

The main reference documents used in developing the NREAP and the NEEAP are: Vision 2030 "São Tomé and Príncipe 2030: the country we need to build", the Blue Economy Transition Strategy for São Tomé and Príncipe; and

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of these classes and the global distribution of land area across the classes (for comparison).

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