



**SolarTech Power Solutions**

# **Are solar panels reliable in Timor-Leste**



## Overview

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Timor-Leste has rapidly expanded electricity access to more than 83 per cent of the population but the country has yet to achieve energy security.<sup>1</sup> Consumer costs, even with government subsidy, remain high and outages are common. In addition, most of Timor-Leste's electricity is generated through.

“UNDP and Japan empower Timor-Leste’s health sector with solar energy, ensuring safe medicine storage and 24/7 healthcare in rural areas.” Official handover of the solar power system to the Government of Timor-Leste, received by H.E. Mr. Samuel Marçal, Minister of Public Works. Dili, 23 October.

On the path toward climate neutrality, the UN House in Calcoli, Dili, wanted a reliable, clean, and renewable energy source. In cooperation with our local partner, GSOL technicians have installed a 300kWp on-grid solar PV system, which covers 50% of the annual electricity consumption of the UN.

Dili, Timor-Leste presents excellent conditions for year-round solar energy generation, consistently delivering strong electricity output throughout all seasons. Located in the tropics where sunlight remains relatively stable year-round, this location shows impressive solar potential with seasonal.

In Timor-Leste, reliable access to renewable energy touches all parts of their daily life. Having solar energy means having better healthcare, better education, and it literally powers entrepreneurship and production activities in communities. Until now, there were often positive and negative.

Just as the remaining renewable energies sources that are being explored by the Government in Timor-Leste, the photovoltaic units (or solar project)

implementation project is specially directed for the families that live in remote areas, where difficulties still exist in the national energy network. Does Timor-Leste need a roof-top solar energy system?

In addition, most of Timor-Leste's electricity is generated through costly and polluting diesel generators. Australia's Market Development Facility (MDF) and ITP Renewables conducted an assessment of the potential market for roof-top solar energy systems in Timor-Leste.

What is a photovoltaic project in Timor-Leste?

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Is Timor-Leste a good country for solar energy?

Timor-Leste has a high-quality solar resource. The global horizontal irradiance in Dili is higher than on the east coast of Australia, where the solar market is mature and installation costs are higher. The cost of electricity in Timor-Leste for commercial and industrial consumers is high compared to ASEAN countries.

How long does a solar system last in Timor-Leste?

High electricity costs and readily available solar radiation mean that the average payback period for a rooftop photovoltaic (PV) solar energy system in Timor-Leste is only 1.5 to 3 years instead of the global average of 6-10 years. Transitioning to solar can also help the country meet environmental commitments.

Does Timor-Leste have a demand for solar?

3 MDF survey on understanding demand for solar in Dili, Timor-Leste. Timor-Leste's rooftop PV solar industry is new and undeveloped. Limited availability of maintenance and spare parts inhibits some businesses from switching to solar.

Why is Timor-Leste not able to finance solar panels?

MDF research found that lenders in Timor-Leste are unwilling to lend to small and medium sized enterprises due to levels of default, perceived risks, and

the difficulty of securing collateral. Evaluate the upfront costs of installing solar panels versus long-term savings. Consider financing options to determine overall economic viability.

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