

# Gigawatt Solar in Timor-Leste





## Overview

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What is energy security in Timor-Leste?

1 Energy security is “uninterrupted availability of energy sources at an affordable price”; International Energy Agency. The average payback period for a rooftop PV solar energy system in Timor-Leste is 2.5 years. This is much lower than the global average of 6 to 10 years, due to solar resource and electricity costs:.

Does Timor Leste have a country Factsheet?

Specifically for Timor Leste, country factsheet has been elaborated, including the information on solar resource and PV power potential country statistics, seasonal electricity generation variations, LCOE estimates and cross-correlation with the relevant socio-economic indicators.

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.

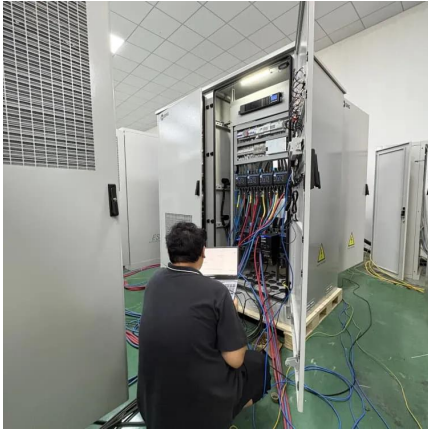
Does Timor-Leste need a roof-top solar energy system?

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.



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### Timor Leste

Oct 10, 2025 · Studies Global Photovoltaic Power Potential by Country Specifically for Timor Leste, country factsheet has been elaborated, ...

### ENERGY PROFILE Timor-Leste

Indicators of renewable resource potential Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity ...



### Lessons learned from development of the SDG 7

...

1 day ago · Power generation in the SDG scenario Timor-Leste plans to implement 72 MW solar and 50 MW wind by 2024 and 2026 respectively. This will increase RE share in power ...

### East Timor (Timor-Leste) Solar Project

Nov 25, 2025 · Explore solar project in East Timor (Timor-Leste), delivering sustainable and reliable energy solutions. Learn about our commitment to renewable energy and how we're ...



### Going Green

Jul 9, 2024 · Timor-Leste offers a compelling opportunity to invest in solar energy Timor-Leste has rapidly expanded electricity access to more than 83 per cent of the population but the country ...



### [Timor Island Solar Energy: Tapping into 20.72 GW Potential](#)

Jul 2, 2025 · Timor Island holds an estimated 20.72 GW of solar power potential. Learn how harnessing this clean energy can boost energy security and drive sustainable growth.



### [East Timor To Begin Work On 72 MW Solar Plant In 2026](#)

Oct 24, 2025 · East Timor is set to begin construction of its first major solar power plant in 2026, with operations expected to commence a few months later. The project marks a significant ...





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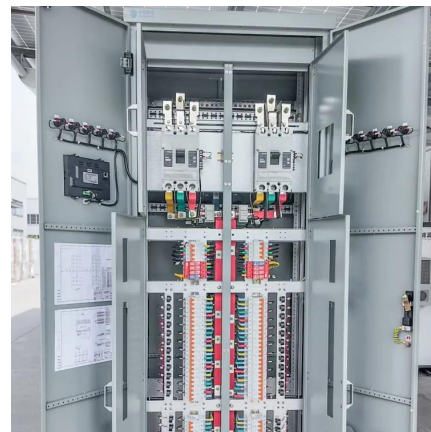


### [Solar power generation in Timor-Leste](#)

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 ...

### [Creating A Utility Scale Solar IPP Project in Timor-Leste](#)

Jun 19, 2023 · For Timor-Leste, bidders are typically from legacy countries such as Indonesia, Portugal and People's Republic of China. For the Solar IPP project, Government of Timor ...



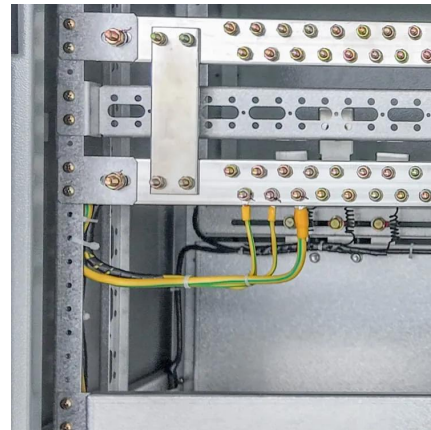
### [East Timor solar plant: Unique 20MW Project Confirmed](#)

Oct 22, 2025 · East Timor's Commitment to the East Timor solar plant East Timor, officially known as Timor-Leste, is poised to make a significant leap in renewable energy with confirmed plans ...



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Oct 10, 2025 · Studies Global Photovoltaic Power Potential by Country Specifically for Timor Leste, country factsheet has been elaborated, including the information on solar resource and ...



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