

Energy storage solar power generation in Timor-Leste





Overview

What is the Timor-Leste solar power project?

The Project involves the construction and 25-year operation of a new power plant in Manatuto, Timor-Leste, comprising a 72 MW solar power plant co-located with a 36 MW/36 MWh battery energy storage system. This will be the country's first full-scale renewable energy IPP project.

What is Timor-Leste's energy plan?

Program of the 9th Constitutional Government: The Government is committed to modernize and expand its energy system by utilizing renewable energy. Timor-Leste plans to implement 72 MW solar and 50 MW wind by 2024 and 2026 respectively. This will increase RE share in power generation from 0.2% in 2021 to 35.4% in 2030.

Why should Timor-Leste invest in solar & storage infrastructure?

José added: "The investment in Timor-Leste's solar and storage infrastructure is transformative. It will help reduce dependence on fossil fuels while improving grid stability and energy access across the country". José de Ponte was supported by special counsel Marnie Calli, senior associate Lisa Huynh and solicitor Jeraldine Mow.

Does Timor-Leste have solar power?

The country receives an average of 18-24 MJ/m² of solar radiation per day, comparable to Australia's high solar potential. As of 2019, 1,228 solar energy units had been installed for family households in remote areas. Timor-Leste has significant potential for photovoltaic power.



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ENERGY PROFILE Timor-Leste

Distribution of wind potential Annual generation per unit of installed PV capacity (MWh/kWp)
Wind power density at 100m height (W/m2)

Signing of Power Purchase Agreement (PPA) for Solar and ...

Jul 25, 2025 · As a result, substantial reductions in both power generation costs and CO2 emissions are expected. The Project involves the construction and 25-year operation of a new ...

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 ...

Signing of Power Purchase Agreement (PPA) ...

Jul 25, 2025 · As a result, substantial reductions in both power generation costs and CO2 emissions are expected. The Project involves the ...

Powering Timor-Leste's future with its first solar plant and ...

Jul 23, 2025 · DLA Piper advised Eletricidade de Timor-Leste on a PPA to develop Timor-Leste's first solar PV power plant and battery energy storage system.

Harnessing Solar Power Photovoltaic and Energy Storage ...

Summary: Timor-Leste, a nation with abundant sunlight but limited grid infrastructure, is increasingly turning to photovoltaic power generation and energy storage systems to achieve ...

Timor-Leste Energy Situation

[3] Timor-Leste has significant potential for photovoltaic power. Fossil Fuels Key Problems of the Energy Sector Policy Framework, Laws and Regulations Institutional Set up in the Energy ...

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 ...

Creating A Utility Scale Solar IPP Project in Timor-Leste

Jun 19, 2023 · First-utility scale renewable project in Timor-Leste Design, build, finance, operation and maintenance of a [72-85] MW solar photovoltaic plant ("Solar PV Plant"), a [36-42.5] MW/1 ...



Timor-Leste Energy Situation

[3] Timor-Leste has significant potential for photovoltaic power. Fossil Fuels Key Problems of the Energy Sector Policy Framework, Laws and ...

Timor-Leste energy storage infrastructure

The final report was delivered in May 2010, and it estimated the nationwide hydro-electric generation potential at 252 MW, rising to 352 MW if pumped storage is applied. National wind ...

TIMOR LESTE CARBON CAPTURE AND STORAGE

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