



LOTWA SYSTEM

Timor-Leste wind-solar hybrid power generation system





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.

What will Timor-Leste's energy policy look like in 2021?

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. Under the current policies, GHG emission from the energy sector are expected to drop by 30% by 2030, compared to the BAU level.

Are solar panels a good idea for Timor-Leste?

The Ambassador of Japan to Timor-Leste, H.E. KIMURA Tetsuya, in his remarks, shared: "I understand that solar panels are extremely helpful. Every time I walk around and see solar panels installed, I feel very happy and encouraged by this visible progress. It's exciting to witness this kind of development taking place."



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Signing of Power Purchase Agreement (PPA) for Solar and Battery Hybrid

Jul 25, 2025 · Provides information about [Signing of Power Purchase Agreement (PPA) for Solar and Battery Hybrid IPP Project in Timor-Leste]. ITOCHU, one of the leading sogo shosha, is

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Design and Analysis of a Solar-Wind Hybrid Energy Generation System

Feb 13, 2025 · The paper evaluates the potential of solar wind hybrid power generation as a solution to address energy reliability, cost, and environmental sustainability challenges.

Techno-Economic Feasibility and Optimization of Hybrid Solar-Wind

Jun 13, 2025 · Access to reliable and sustainable electricity remains a critical challenge in Timor-Leste. This island developing nation relies on imported diesel for over 99% of its electricity ...

Techno-Economic Feasibility and Optimization of Hybrid

Article "Techno-Economic Feasibility and Optimization of Hybrid Solar-Wind-Biomass Energy Systems in Rural Timor-Leste: A Case Study of Liquica Municipality" Detailed information of ...

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 Renewable Energy Electrification Plan

The overall objective of this project is to develop, for the Government of East Timor, the Electrification Masterplan 2025 of East Timor based on Renewables Energies. DESCRIPTION ...

Hybrid solar and wind systems Timor-Leste

What is a hybrid solar-wind energy system? equipped with battery storage solutions. These batteries store excess energy generated during peak sun or wind periods, ensuring a ...

Signing of Power Purchase Agreement (PPA) ...

Jul 25, 2025 · Provides information about [Signing of Power Purchase Agreement (PPA) for Solar and Battery Hybrid IPP Project in Timor ...

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 Advances Toward Clean Energy Future with Solar Power

Jul 12, 2025 · A high-level delegation led by the Ambassador of Japan, UNDP Resident



Representative, and INPPM Executive Director conducted a monitoring visit to assess the ...

Design and Analysis of a Solar-Wind Hybrid ...

Feb 13, 2025 · The paper evaluates the potential of solar wind hybrid power generation as a solution to address energy reliability, cost, and ...

ENERGY PROFILE Timor-Leste

Additional notes: Capacity per capita and public investments SDGs only apply to developing areas. Energy self-sufficiency has been defined as total primary energy production divided by ...

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