



Solar installation east timor

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Timor-Leste enjoys a good amount of sunshine, especially during the dry season, which runs from June to September. On average, the country receives about 2,900 of sunshine per year.¹

The reliability of the electrical power supply grid in Timor-Leste faces several challenges due to aging infrastructure and limited investment. Power outages are common, particularly in rural areas.²⁵ The Power Distribution Modernization Project aims to enhance the sustainability, resiliency, and reliability of the electricity system by modernizing the power distribution system.⁶

As of 2023, Timor-Leste has not yet established any significant solar panel production capacity.² However, a notable installation includes the 300 kWp solar system at the UN House in Dili, which covers 75% of the daytime electricity consumption for the entire UN House in Dili.¹⁵

Timor-Leste has ambitious plans for solar energy. By 2024, the country aims to implement 72 MW of solar power.⁸ Additionally, there is one utility-scale photovoltaic (PV) solar power plant with a capacity of up to 100 MW planned for the future.⁷ These efforts are part of a broader strategy to increase the share of renewable energy in power generation from 0.2% in 2021 to 35.4% by 2030.⁸

As of recent reports, 47 subdistricts in 12 of Timor-Leste's 13 districts now have 24-hour electricity.¹¹ However, as of 2018, over 25% of villages still lacked access to the electricity grid.¹²

Electricity outages in Timor-Leste are a significant issue, often caused by maintenance needs at the low voltage level and the poor condition of the distribution network.³ These outages are particularly frequent during the rainy season when storms and heavy rainfall can damage the grid.¹³

There are approximately 2,143 families across Timor-Leste with residential solar panel installations. This initiative has been part of the country's efforts to expand access to renewable energy, especially in rural areas.¹⁴ This initiative has been part of the country's efforts to expand access to renewable energy, especially in rural areas.

Current:The off-grid solar market in Timor-Leste is primarily driven by rural households and communities lacking access to the national grid. Demand is increasing as awareness of solar energy solutions grows.⁵

From 2003 to 2021, Renew, an Australian NGO, helped install solar lighting and power to more than 2,000 homes and over 100 community centers, orphanages, schools and hospitals in remote rural villages.³⁰

Current:The on-grid solar market in Timor-Leste is still developing. However, the on-grid solar PV system at the UN House in Dili, which covers 50% of its annual electricity consumption, indicates the potential for



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larger scale on-grid solar installations.18

Projected: The on-grid solar market is promising due to the high-quality solar resource of the country, the short payback period for solar investments, and the government's ambitious renewable energy goals.9

Solar Power Solutions Pvt Ltd: This company is recognized as the leading solar company in Timor-Leste, specializing in solar installation, energy solutions, and manufacturing high-quality solar panels. They offer a range of services including rooftop solar plants, solar water heaters, and large-scale solar power plants, focusing on sustainability and cost-effective solutions for residential, commercial, and industrial clients.32

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Web: <https://hollanddutchtours.nl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

