

Timor-Leste solar energy cluster

Is there a market for roof-top solar energy systems in Timor-Leste?

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 the photovoltaic units implementation project in Timor-Leste?

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 installation.

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.

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.

What does a solar technician do in Timor-Leste?

Technicians in Timor-Leste have experience in small-scale, off-grid solar energy systems. Commercial or industrial scale installations are more complex and appropriate technical capacity is scarce.

Is a solar-powered Grid a good idea in Timor-Leste?

With the new UN reforms, the United Nations in Timor-Leste, under the leadership of the Resident Coordinator has now started lighting the way with its solar-powered grid which has begun to give maximum dividends. A powerful 300 kWp photovoltaic system is producing 400,000 kWh of clean electricity annually, filling critical gaps in energy supply.

energy transition
oInterested to achieve SDG 7 targets and increase renewable energy to reduce reliance on petroleum fuel
oThe Government of Timor-Leste requested ESCAP to support the ...

East Timor solar project, Timor Leste. In cooperation with our local partner, GSOL Energy technicians have installed a 300kWp on-grid solar PV system, which covers 50% of the annual electricity consumption of the UN House, and is expected to reduce CO2 emissions by ...

3 ???· As Timor-Leste moves toward prioritizing more climate-friendly development, clean energy is providing empowerment and opportunity for its people. With solar lights in their homes, women across the

country can dream bigger, feel safer, ...

Energy-efficient solar systems in the UN Compound in Timor-Leste are helping cut down costs of nearly US\$ 542,490 and save 1765 tons of CO₂ over the last six years. The switch to clean energy, a critical part of UN ...

The United Nations Development Programme (UNDP) has launched a groundbreaking initiative aimed at providing sustainable solar energy to remote communities in Timor-Leste. The project, which was officially announced a few months ago, seeks to address the energy access challenges faced by rural populations - particularly in areas that are not ...

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climate and abundant solar-power potential, Timor-Leste relies heavily on diesel to deliver power to its population of 1.3 million people. In 2023, MDF and the Australia-Pacific Climate Partnership (APCP) assessed the market for rooftop solar solutions in Timor-Leste, to understand the barriers,

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potential market for roof-top solar energy systems in Timor-Leste. This involved detailed consultations with a variety of organisations, particularly with businesses to understand their awareness of solar energy and their intentions to shift to solar energy.

energy transition oInterested to achieve SDG 7 targets and increase renewable energy to reduce reliance on petroleum fuel oThe Government of Timor-Leste requested ESCAP to support the development of SDG 7 Road Map oANE I.P. collaborated with ESCAP on this topic oThe Road Map is currently being developed

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each



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of these classes and the global distribution of land area across the classes (for comparison).

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