



BUHLE POWER

# Timor-Leste power grid solar container energy storage system composition





## Overview

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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.

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 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.

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.



## Timor-Leste power grid solar container energy storage system comp



### [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 storage infrastructure](#)

What are the main sources of energy in Timor-Leste? Countries such as Indonesia and Australia. Seventy-five percent of oil imports are used for electricity production, with the remaining 25 ...



### [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.

### [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 · The results from this market assessment indicate that solar energy could be an excellent substitute or complement to Timor-Leste's electrical grid. High electricity costs and ...

## 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 ...



## EAST TIMOR ENERGY COUNTRY PROFILE

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 ...



### Timor-Leste sun power gen systems

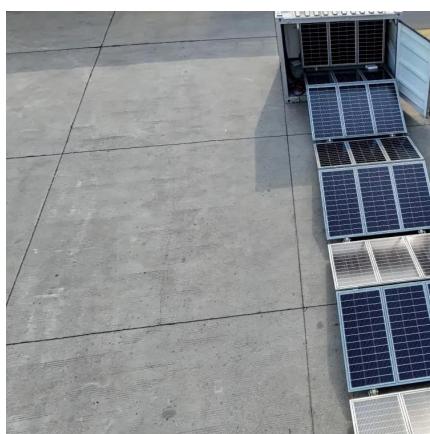
The new solar energy project, titled "Solar for All," is a key component of UNDP's broader efforts to promote renewable energy in Timor-Leste. The initiative will focus on ...



### 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 ...



### TIMOR LESTE ENERGY STORAGE INFRASTRUCTURE

U.S. Energy Storage Battery Infrastructure Installation In 2025, capacity growth from battery storage could set a record as we expect 18.2 GW of utility-scale battery storage to be added to ...



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