

## European Solar and Energy Storage Solutions

# Solution to poor power supply inia Timor-Leste



## Overview

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How much did Timor-Leste invest in a new power system?

Timor-Leste's power stations and distribution lines, showing the Power Distribution Modernisation Project. The initial capital investment in the new power system was reported as US\$2 billion for the main power stations and distribution lines.

Does Timor-Leste have access to energy?

DILI, Timor-Leste, Feb 08 (IPS) - Access to energy remains a concerning challenge for many in Timor-Leste. The centralised nature of the local electricity supply chain has traditionally kept consumers reliant on the national grid to overcome chronic energy shortages.

Does predp paved the way for future energy access in Timor-Leste?

Conclusions Although PREDP was a pilot programme, it has paved the way for future energy access activities in Timor-Leste. It was the first rural energy programme in Timor-Leste to include a capacity development component, and to have the GoTL and local communities as major partners.

Why did Timor-Leste lose electricity?

Most of the energy infrastructure that existed when Timor-Leste was part of Indonesia was destroyed during the violent outbreaks of 1999. At the time of independence in 2002, electricity access was estimated to be just 24 % of the population .

Does Timor-Leste's electricity network support water security?

Interview findings suggested that the existing electricity network in Timor-Leste, with noted excess capacity, provided a largely untapped potential for supporting irrigation needs, such as groundwater pumping, to enhance water security.

What are the main sources of energy in Timor-Leste?

Fossil fuels in Timor-Leste are imported from neighbouring countries such as Indonesia and Australia. Seventy-five percent of oil imports are used for electricity production, with the remaining 25 percent consumed in the transport sector. Other sources of energy. Lighting needs are met by the use of kerosene, plant oils and batteries.

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### Electrification in post-conflict Timor-Leste: Opportunities for

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Timor-Leste's HDI was 0.607 in 2021, ranking it 140 of 191 countries and territories and below the average of 0.749 for countries in East Asia and the Pacific [47]. As shown in Fig. 3, Timor-Leste's health (life expectancy) index has steadily improved since 2001, and the education index has largely plateaued. The income index, based on Gross

### UNSDG , Solar-powered UN House lights the way for a greener ...

A powerful 300 kWp photovoltaic system is producing 400,000 kWh of clean electricity annually, filling critical gaps in energy supply. "It covers 75 per cent of the daytime electricity consumption of the entire UN House, which hosts 14 UN agencies in Dili and has reduced reliance on fossil fuels and generators, leading to 286.000 kg of CO2 emission saved ...



### CLIMATE CHANGE ASSESSMENT BASIC PROJECT ...

institutional strengthening and capacity building to Electricidade De Timor-Leste (EDTL).a The project will support EDTL's focus on the development and operation of the power supply in Timor-Leste. The project outcome includes improving efficiency and reliability of power supply in Timor-Leste and financial performance

of EDTL.

## The future of hydropower development in Timor Leste

The current PLN power supply plan calls for the construction of five additional power generating facilities in West Timor by 2020, with 197 MW of total installed capacity. Four of the new facilities, ranging in size from 30 to 80 MW, will be near Kupang; the fifth is a 24 MW facility in Atambua not far from the Timor Leste frontier.



## Voltage in East Timor (Timor Leste)

These solutions are often expensive and unreliable, with frequent power outages and high maintenance costs. The government is aware of these issues and is working to address them through its electrification plan. One of the main challenges facing the electricity supply network in East Timor is its ageing infrastructure.

## Wärtsilä Awarded Operations and Maintenance

Wärtsilä has been awarded a full scope, long-term operations and maintenance (O& M) agreement for the Hera power plant in Dili, in the Democratic Republic of Timor-Leste. The contract was signed during the second quarter of 2012. In a consortium with Puri Akrya Engineering, a company contracted by



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Stakeholders confirmed that the state delivers Timor-Leste's national electricity supply, with no private actors involved. The electricity system's power stations and transmission lines, including those being modernised through assistance from the Asian Development Bank [67], are shown in Fig. 4. The two main power stations at Hera and Betano

## Accelerating Clean Energy Access to Reduce Inequality (ACCESS)

Timor-Leste's National Strategic Development Plan 2011-2030 targets that everyone in Timor-Leste will have access to reliable electricity 24 hours a day by 2030. To achieve this target, rural electrification is a priority in Timor-Leste which will also contribute to urban and rural job growth and development.



## TIMOR-LESTE: POWERING INFORMATION COMMUNCI ...

OVERVIEW OF TIMOR-LESTE'S POWER AND ICT SECTORS AND THEIR INSTITUTIONAL LANDSCAPE  
 7 OVERVIEW OF TIMOR-LESTE'S POWER SECTOR  
 7 lacks the technical capacity and commercial expertise to maintain a reliable power supply. The sector's newest stakeholder is the Autoridades Nacional da Electricidade (ANE), a regulatory authority within ...

## Timor-Leste: Power Distribution Modernization Project

2. Whilst public financial management in Timor-

Leste is broadly adequate, there is a lack of transparency with respect to public finances and service delivery performance. Approval processes are cumbersome and time-consuming, and budget out-turn performance is poor. From



## Timor Leste

Renewal of Wärtsilä Operation and Maintenance contract vital to security of Timor-Leste's power supply. 29 Sep 2017 [çerdot](#); Press release. Wärtsilä to ensure energy availability in Timor-Leste. 26 Jan 2016 [çerdot](#); Wärtsilä is a global leader in innovative technologies and lifecycle solutions for the marine and energy markets. We

## Renewable Energy: Bringing Electricity to the People of Timor-Leste

TIMOR-LESTE -- To developing nations, electricity offers not only practical solutions to daily problems, but also an opportunity to move out of poverty. The people of Timor-Leste are no different. However, many people across the country are without electric power, and must use potentially harmful biomass fuels merely to exist.



## Timor-Leste

operators involved in the energy sector in Timor-Leste. The purpose of this report is to assist the government of Timor-Leste, in particular the office of the Secretary of State for Energy Policy, to develop policies in key areas that would guide

planning of the subsequent phase of its ongoing rural energy programs. The selected key areas in



## **Empowered lives. NEW SOLUTIONS FOR A NEW COUNTRY: ...**

New solutions for a new country: Timor-Leste's future in renewable energy is one of 17 case studies which, together with a report titled 'Towards an 'Energy Plus' approach for the poor: A review of good



## **Solar-powered UN House Lights Way for Greener & More Efficient Timor-Leste**

With the new UN reforms, the United Nations in Timor-Leste, under the leadership of the Resident Coordinator (RCO) has now started lighting the way with its solar-powered grid which has begun to give maximum dividends.

## **Home**

Our solution helps you to obtain real value for money, and works with all service providers. Uninterruptible Power Supply. Protect critical loads from mains supply problems, including spikes, voltage dips, fluctuations and complete power failures using a dedicated battery. Dili, Timor-Leste. +670 331 1280.

enquiry@quantech.tl. Links



## Renewal of Wärtsilä Operation and Maintenance contract vital to

This service optimises both performance as well as maintenance planning procedures and ensures the security of Timor-Leste's power supply by providing a holistic view of the plants' operations.



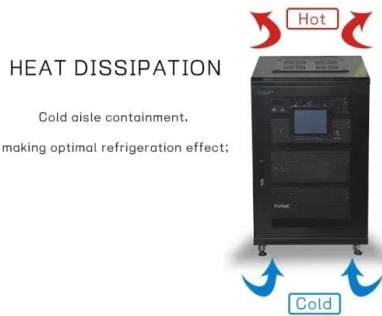
## Going Green

The cost of electricity in Timor-Leste for commercial and industrial consumers is high compared to ASEAN countries. For instance, in Indonesia industrial electricity tariffs are 0.11 USD/kWh, compared to 0.24 USD/kWh in Timor-Leste. Adding solar to their energy mix can help businesses reduce the cost of electricity



## BASIC DESIGN STUDY REPORT ON THE PROJECT FOR ...

Government of Japan decided to conduct a basic design study on the Project for Rehabilitation of Power Supply in the Democratic Republic of Timor-Leste and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent to Timor Leste a study team from March 20 to April 26, 2003.



## TIMOR-LESTE: POWERING INFORMATION COMMUNICATIONS ...

EDTL, E.P. Electricidade de Timor-Leste/Public Electricity Company of Timor-Leste, E.P. EP Public Enterprise FLBB Fixed-Line Broadband Gbit gigabit GNI Gross National Income GoTL Government of Timor-Leste ICT Information and Communication Technology IEC International Electrotechnical Commission IP Public Institution



## Lessons learned from development of the SDG 7 Roadmap for ...

- oTimor-Leste Strategic Development Plan 2011-2030: oprovide electricity access to all households by 2030. oNo families in Dili will have to cook with firewood by 2020. oRegulation on Fuel, Biofuel, and Lubricant Quality Standards and Specifications: blending of Biofuel is limited up to a maximum threshold of 20 per cent by volume

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