

## European Solar and Energy Storage Solutions

# New energy storage Timor-Leste

## Applications



Electric motorcycle



Electric Forklift



Electric Boat



Golf Cart



RV



Audio Equipment



Solar Street Light



Household Energy Storage



Energy Storage System



## 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 geopolitics influence Timor-Leste's energy reconstruction?

Totalling 280 MW, the national generation capacity is much greater than the current national peak load of 70 MW. It was commented that the two largest power stations were second-hand generators installed through a partnership with China, highlighting the influence of geopolitics in Timor-Leste's energy reconstruction. Fig. 4.

Will Timor-Leste replace oil imports with solar power?

More than 75% of oil imports in Timor-Leste are used for electricity production across the country and around 90% of the sector's operating costs are fuel costs associated with power generation. The Government of Timor-Leste intends to replace part of this high-cost generation by more cost-efficient solar power.

How many power plants are there in Timor-Leste?

The generation capacity in Timor-Leste currently stands at almost 300 MW consisting of 3 power plants. In addition to these main power plants meeting most of the power demand of the country, small diesel-fired generators serve as a significant source of electric power in many localities with inadequate power from the grid.

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.

Can Timor-Leste generate solar energy?

As almost the whole territory of Timor-Leste has the potential to successfully generate solar energy, the Government is keen to tap into this potential to setup utility scale solar plants as well as off-grid lighting solutions for remote localities.

## New energy storage Timor-Leste

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### The road towards building the largest Carbon Capture and ...

Timor-Leste - Profile. 2 Total Area: 15,000 Km<sup>2</sup> (half of Belgium) Population: 1,388,980 (UN World Meter, 2023) Official Languages: Tetum, Portuguese Working Languages: Indonesia and English Economy: Oil and Gas, Tourism, Agriculture, Coffee Currency: USD (United States Dollars) Connectivity: Bali (Indonesia), Singapore, Kuala-

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

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### Energy Circle

The Greater Sunrise project, harnessing significant natural gas and condensate reserves, will transform Timor-Leste's economy, generating up to USD 50 billion. It aims to boost local development through job creation, infrastructure, and technological innovation, while adhering to strict environmental standards.

## Finder Energy advances toward production with new Timor-Leste ...

Australian oil and gas junior Finder Energy (ASX: FDR) is confident it is on target to make the jump from explorer to producer with the award of a large permit area offshore Timor-Leste. The company recently signed and completed the acquisition of a 76% operating interest in production sharing contract (PSC) 19-11 off the coast of Timor-Leste.

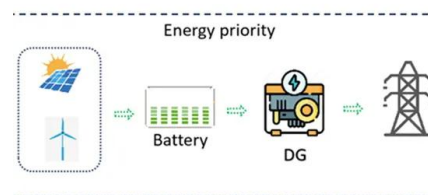


## ENERGY PROFILE Timor-Leste

Primary energy trade 2016 2021 Imports (TJ) 7 280 8 593 Exports (TJ) 308 936 205 040 Net trade (TJ) 301 656 196 447 Imports (% of supply) 91 94 Exports (% of production) 100 100 Energy self-sufficiency (%) 3858 2257 Timor-Leste COUNTRY INDICATORS AND SDGS TOTAL ENERGY SUPPLY (TES) Total energy supply in 2021 Renewable energy supply in 2021 93%

## (AP3F059-PP021) Project Definition and Project Preparation ...

The project is expected to comprise of a utility scale photovoltaic (PV) solar power plant of up to 100 megawatt (MW) and supporting infrastructure. A Battery Energy Storage System (BESS) may be added for the storage of renewable power.



## Santos eyes cheaper carbon storage offshore East Timor at new ...

Rystad Energy estimates capital expenditure for

Bayu Undan CCS at more than \$1.7 billion across capture, transport, and storage, for the entire cluster project with 10 million tonnes per year (t/y)



## Timor-Leste

Sunda Energy's wholly owned Timor-Leste subsidiary SundaGas Banda Unipessoal Lda. ("SundaGas") is the Operator of and 60% interest holder in the offshore Timor-Leste TL-SO-19-16 PSC. The remaining 40% interest is held by a subsidiary of the Timor-Leste state oil company Timor Gap, E.P., whose interest is carried by SundaGas to development.



## Santos signs MOU with Timor-Leste to advance Bayu-Undan CCS

Santos has signed a memorandum of understanding (MOU) with Timor-Leste regulator Autoridade Nacional do Petróleo e Minerais (ANPM) to advance a carbon capture and storage (CCS) project at the Bayu-Undan field in the Timor Sea. The Australian energy company is the operator of the Bayu-Undan joint venture (JV) with a 43.4% stake.

## ENERGY PROFILE Timor-Leste

developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of

the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided



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

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

## Santos and another oil firm pooling resources for CCS project off Timor ...

Australian energy giant Santos and its joint venture partners have inked a memorandum of understanding (MOU) with Timor-Leste's national oil company, TIMOR GAP, to explore partnership opportunities for a proposed carbon capture and storage (CCS) project at a gas and condensate field in the Timor Sea. Santos



## Energy Access Case Study 16 - New Solutions for a New Country: Timor ...



This case study documents the piloting of renewable energy technologies in isolated rural communities in Timor-Leste. The programme reached 1,875 individuals in 375 households, with multiple impacts on quality of life, income and livelihoods.

## Timor Leste: Bayu-Undan joint venture and TIMOR GAP sign ...

Santos and its Bayu-Undan joint venture partners have signed a Memorandum of Understanding (MOU) with Timor-Leste's national oil company TIMOR GAP to explore partnership opportunities for the proposed Bayu-Undan carbon capture and storage (CCS) project offshore Timor-Leste.. The MOU follows four non-binding MOUs for CO2 supply to Bayu-Undan CCS ...



-  100KW/174KWh
-  Parallel up-to 3sets
-  IP Grade 54
-  EMS AND BMS

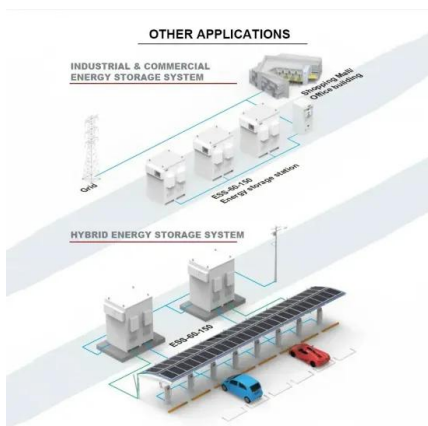
## Energy Circle

Summary: A Balanced Future for Timor-Leste. Timor-Leste is taking decisive steps toward building a diversified economy that balances its historic reliance on oil and gas with new opportunities in mining. The exploration of manganese in Lautém is a key development that could unlock new revenue streams while supporting the country's goals of

## Timor-Leste

The Democratic Republic of Timor-Leste is a country in Southeast Asia. It comprises the eastern half of the island of Timor, the nearby islands of Atauro and Jaco, and Oecusse, an Enclave on the Northwestern side of the island, within Indonesian West-Timor. It is divided

administratively into 13 Districts. National Day:  
28 November



## Energy Access Case Study 16 - New Solutions for a ...

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## Timor-Leste invests on Renewable Energies

The potential for hydropower is 252 megawatts. If we connect all this energy to the pumping system we can get an additional 100 megawatts. The potential of wind energy is 72 megawatts, an installed capacity that will be distributed between the future wind parks of Larigoto, Bobonaro, Baucau, Fohobogor, Khoholau and Laleia".



## Energy for Empowerment: Sustainable Energy Solutions in Timor-Leste

Discover the remarkable journey of five dedicated volunteers from MEA Powerup who made a substantial impact by bringing much-needed electricity to a remote hostel in Timor-



Leste. Their mission was clear: to alleviate the persistent electricity challenges faced by this site, which was situated approximately 20 kilometres away from Suai. This remote sanctuary ...

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