

## ContainerPower Energy Solutions

# The economics of household energy storage in Timor-Leste



## Overview

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What determinants of household energy choices in Timor-Leste?

Using data from the 2007 Timor-Leste Living Standards Survey, this paper examines the determinants of household energy choices in Timor-Leste. The majority of households are dependent on dirty fuels such as fuelwood and kerosene for energy. Only a small fraction of households use clean energy such as electricity.

Do Timor-Leste households use electricity?

This study uses data from the TLSLS 2007 to analyze household energy choices and dependency. In Timor-Leste, a significant proportion of the population use kerosene and fuelwood, while a smaller number of households use electricity. We found that only about 23% of total sampled households use electricity.

What type of energy is used in Timor-Leste?

It comprises coal, oil, petroleum, and natural gas products. Timor-Leste's energy landscape is characterized by a growing demand for electricity and a heavy reliance on imported fossil fuels. In 2022, almost all of the electricity being generated came from oil or other fossil sources.

What is the energy landscape in Timor-Leste?

Timor-Leste's energy landscape is characterized by a growing demand for electricity and a heavy reliance on imported fossil fuels. In 2022, almost all of the electricity being generated came from oil or other fossil sources. While 100% of the population have access to electricity, only 18% have access to clean cooking.

How much do Timor-Leste households spend on energy?

Households in Timor-Leste spend an average of \$14.3 on energy per month, which is the equivalent of 20% of a typical rural household's monthly income

and on average, members of a household spend 3.5 hours per day for cooking and allocate 6 hours per week for collecting fuelwood (Mercy Corps 2011).

Does Timor-Leste have solar power?

The country receives an average of 18-24 MJ/m<sup>2</sup> of solar radiation per day, comparable to Australia's high solar potential. As of 2019, 1,228 solar energy units had been installed for family households in remote areas. Timor-Leste has significant potential for photovoltaic power.

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