



# Laos pes energy system

How much electricity does Laos use?

Hydropower is a significant resource in Laos, with 22.5 TWh electricity generated in 2018. However, the national electrification rate was 94.2% in 2017. The purchasing rate of electricity in Lao PDR is 0.07 USD/kWh and consumed on the average of 724.3 kWh per capita.

What is the main energy source in Laos?

As of 2018, most of primary energy comes from coal (60.7%), followed by hydropower 30% and oil 18%. Hydropower is a significant resource in Laos, with 22.5 TWh electricity generated in 2018. However, the national electrification rate was 94.2% in 2017.

What is Laos energy security?

Laos Energy Security (LES) is a part of the U.S. Government's initiative: "Enhancing Development and Growth through Energy" (CLEAN EDGE Asia). CLEAN EDGE Asia supports expanded access to energy, promotes energy diversification and trade and integration of clean energy markets, and strengthens energy security throughout the Indo-Pacific region.

The Renewable Energy Development Strategy in Lao PDR has defined the required capacity to achieve the 30% of renewable energy share in 2025. This is the most ambitious target in the Mekong region. In addition to that, the large ...

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Total energy supply (TES) includes all the energy produced in or imported to a country, minus that which is exported or stored. It represents all the energy required to supply end users in the country. Some of these energy sources are used directly while most are transformed into fuels or electricity for final consumption.

In 2019, Lao PDR's total primary energy supply (TPES) was 5.9 million tonnes of oil equivalent (Mtoe), and



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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

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ASEAN member Laos has plans to increase renewable energy in its power mix, notably solar power buildout. However, it continues to rely on hydropower and coal-fired power plants to generate electricity, complicating both its way forward and decarbonisation plans.

Opportunities exist in Lao PDR to enhance regional energy security through deep integration with neighbouring countries" power grids through the transmission network of the Association of Southeast Asian Nations (ASEAN).

The Renewable Energy Development Strategy in Lao PDR has defined the required capacity to achieve the 30% of renewable energy share in 2025. This is the most ambitious target in the Mekong region. In addition to that, the large hydro power plants are not included as a part of this target, as only electricity generated from small plants (up to ...

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In 2019, Lao PDR"s total primary energy supply (TPES) was 5.9 million tonnes of oil equivalent (Mtoe), and the energy mix consisted of hydropower, oil, coal, solar and biomass. As there were many power plants in Lao PDR generating electricity for export in 2019, the export figure reached 25,048 gigawatt-hours (GWh) or equivalent to 2.15 Mtoe.

People"s Democratic Republic (Lao PDR) towards a net-zero emissions status and sustainable energy system. Redirecting surplus renewable hydropower electricity to decarbonised hydrogen and ammonia

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