

## Solar Energy South Africa

# Will Laos have solar power in the future



## Overview

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ASEAN member Laos has plans to increase renewable energy in its power mix, notably solar power buildout. Does Laos have solar energy?

Laos, blessed with abundant sunshine, has significant solar energy potential. However, hydropower still dominates its renewable energy sector, accounting for about 73% of electricity generation. As of 2023, solar energy made up less than 1% of the energy mix.

Will Lao increase the share of renewables in the energy mix?

The Lao government has set ambitious targets for renewable energy development, aiming to increase the share of renewables in the country's energy mix to 30% by 2025.

Will Laos achieve a 1GW solar and wind capacity by 2030?

The Laotian government has set ambitious goals to diversify its renewable energy portfolio. By 2030, Laos aims to achieve a combined solar and wind capacity of 1GW as part of a broader strategy to reduce dependence on hydropower and enhance energy security. However, current projections suggest it is expected to fall well short of this target.

How much energy does Lao produce a year?

Source: The Lao People's Democratic Republic, Department of Energy Policy and Planning (2019), Lao PDR Energy Outlook Result (Lao PDR\_Template\_BAU\_APS\_LCET August 2022). (80.98 TWh), followed by solar and wind (32.26 TWh), coal (15.95 TWh), and biomass (1.38 TWh).

Does Laos have a solar farm?

In 2017, Laos marked a milestone in its renewable energy journey by opening its first solar farm in Vientiane with a capacity of 10MW. Building on this initial success, Laos embarked on its largest solar venture to date in 2022, with a 50MW solar project.

Does Laos have a solar power quota system?

In January 2024, the MEMR revised regulations on solar power integration, removing capacity limits on rooftop systems, while implementing a quota system overseen by the ministry for feeding electricity into the PLN grid. Laos, blessed with abundant sunshine, has significant solar energy potential.

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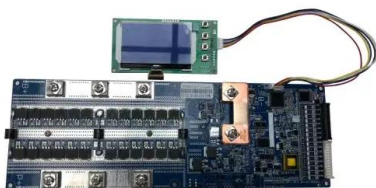


### The Future of Solar Energy: Predictions for 2025

Large-scale solar farms, contributing vast amounts of power directly to the grid, have become an increasingly pivotal facet of the global solar sector. This rise has been primarily catalyzed by the dramatic reversal in the cost dynamics of ...

### The Future of Solar Energy , MIT Energy Initiative

The Future of Solar Energy considers only the two widely recognized classes of technologies for converting solar energy into electricity -- photovoltaics (PV) and concentrated solar power (CSP), sometimes called solar thermal) -- in their ...



### Can Nam Ngum solar replace Mekong hydro in Laos?

Looking to offer Laos a true alternative to hydroelectric power, I have put forward the idea of a 11,400 MW floating solar-with-storage system (FSS) on the 370 km<sup>2</sup> Nam Ngum reservoir - the biggest open and flat surface in Laos. The FSS ...

### Mapping the future of solar capacity in Southeast Asia

Laos. Laos, blessed with abundant sunshine, has significant solar energy potential. However, hydropower still dominates its renewable energy sector, accounting for about 73% of electricity generation. As of 2023, solar ...



## Laos' Energy Market: Current Trends and Future Outlook

In addition to hydropower, Laos has also been exploring other renewable energy sources, such as solar and biomass. The country's first large-scale solar power plant, with a capacity of 10 MW, was commissioned in ...

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