



# Storage energy solution Laos

Why should Laos invest in a floating solar plant?

"It's also a privilege to support Laos in the development of what is projected to be one of the world's largest floating PV plants." The solar plant will cover an area of 3.2km<sup>2</sup>, which corresponds to less than 1% of the reservoir's area at full supply level.

How much electricity does Laos produce?

Currently, Laos has total electricity production capacity of over 11 gigawatts from hydroelectric dams, as well as solar, biomass, coal and wind power plants.

How many hydroelectric projects will Laos build in 2020?

Overall, Laos plans to build nine hydroelectric projects on the main part of the Mekong River. According to the International Renewable Energy Agency, Laos had an installed PV capacity of around 22 MW at the end of 2020. This content is protected by copyright and may not be reused.

Will EDF build 240 MW floating PV project at Laos' largest hydropower dam?

EDF is planning to build a 240 MW floating PV project at Laos' largest hydropower dam. French engineering company Innosea has joined the ambitious project as a provider of support for wave and anchoring studies. The Nam Theun hydropower station in Laos. Image: EDF

What will EA do for Laos?

Somphote said EA will also assume responsibility for managing fundraising activities, with an anticipated target of US\$1 billion (36.79 billion baht), aimed at revitalising Laos' international reserves, reducing debt, strengthening the currency, and reinstating investor confidence.

Does energy storage reduce energy consumption?

In the low and medium electricity consumption scenarios as included in Table A of Appendix, the storage requirements reduce by 87%-89% and 62%-71%, respectively. In other words, there is a trade-off between energy storage (energy time-shifting) and electricity transmission (energy geo-shifting) in balancing of the renewable energy systems.

Clenergy Thailand and EDL-GEN Solar Power announced their partnership on an 85MW solar project in Vientiane, Laos. Representatives from Clenergy Thailand, EDL-GEN Solar Power, and Pattana Energy Absolute Sole attended the ...

The agreement marks a significant step in expanding Laos' clean energy infrastructure, with a focus on integrating wind, solar, and water storage energy solutions across three northern provinces: Oudomxay, Phongsaly, and Luang Namtha.



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Clenergy Thailand and EDL-GEN Solar Power announced their partnership on an 85MW solar project in Vientiane, Laos. Representatives from Clenergy Thailand, EDL-GEN Solar Power, and Pattana Energy Absolute Sole attended the signing ceremony.

The partnership aims to bolster revenue from clean energy within three years, alleviate dependency on crude oil imports, facilitate the development of energy storage solutions, offer electric vehicle solutions, and invest in further renewable energy projects to advance the national goal of positioning Laos.

This infographic summarizes results from simulations that demonstrate the ability of Lao PDR to match all-purpose energy demand with wind-water-solar (WWS) electricity and heat supply, storage, and demand response continuously every 30 seconds for three years (2050-2052). All-purpose energy is for electricity, transportation,

This will enable Laos to generate revenue from clean energy within three years, alleviate its dependency on crude oil imports, facilitate the development of energy storage and EV solutions, and achieve its national goal of being the "Battery of Asia".

The availability of effectively unlimited low-cost technically mature storage in the form of off-river pumped hydro is critical for these renewable electricity scenarios. Pumped hydro is by far the most cost-efficient solution for electrical energy storage on timescales ranging from hours to a few days [47]. A good off-river, closed-loop pumped ...

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The company plans to develop floating solar projects, and energy storage systems, and expand the power export market while increasing EV adoption and charging infrastructure in Laos. Moreover, the initiative supports green tourism and aims for net-zero carbon emissions by 2050.

Together with the Government of Laos, EDF signed a memorandum of understanding to undertake the feasibility studies for a Pumped Storage Hydropower project located nearby Nam Theun 2, with an installed capacity up to 2,000 MW and 30 GWh of storage, which would rank it among the top 10 largest pumped hydro energy storage systems in the world!

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