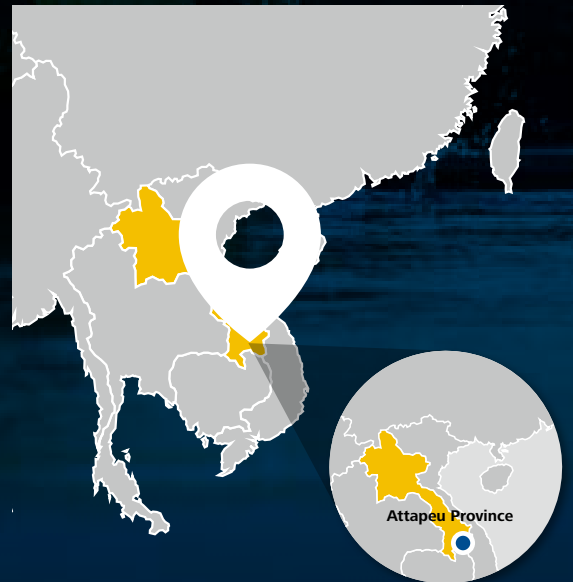


# XENAMNOY 1 HYDROPOWER LAOS

Utilising Laos' natural water resources  
for sustainable development



*Laos has significant potential to generate hydropower, however, the country currently lacks the necessary economic resources to make electricity services available to rural communities. This hydropower power project contributes to solving this issue by generating sustainable electricity to rural communities, while also reducing the need for firewood.*



### The Context

Unsustainable firewood comprises the bulk of primary energy consumption in Laos, contributing to shrinking tropical forests. As the demand for electricity supply is steadily increasing, Laos must turn to sustainable energy options in order to save its forests, and limit greenhouse gas emissions.

### The Project

This project is capitalising on Laos' enormous hydropower potential, supplying the region, and in particular rural communities, with a sustainable source of clean energy. The run-of-the-river hydropower station harnesses flowing water to a total installed capacity of 14.8 MW, providing 85000 MWh of clean electricity to the Lao Power grid. By displacing part of the power generated by thermal power plants, the project is therefore expected to reduction of CO<sub>2</sub> emissions by an estimated 47,558 tCO<sub>2</sub>e on average per year.

### The Benefits

Thanks to the reduced need for firewood, forest and vegetation are able to recover, while greenhouse gas emissions are reduced every year. The project also contributes to local sustainable development by providing job opportunities, improving the local infrastructure, and by implementing a water supply program for the villagers. The project owner also built a new temple for the local community, respecting the religion of local residents.

By reducing the local use of firewood combustion for electricity, damage to the local vegetation is alleviated.



**85,000**  
MWh

of clean energy provided to the Lao Power Grid, promoting the renewable energy industry



**23**  
jobs

for local residents created by the project, boosting local economies



**47,558**  
tCO<sub>2</sub>e

reduced on average annually by providing an alternative energy source to the burning of fossil fuels

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Official name: Xenamnoy 1 Hydropower Project | UNFCCC/markit/VCS link: [https://mer.markit.com/br-reg/public/project.jsp?project\\_id=103000000006010](https://mer.markit.com/br-reg/public/project.jsp?project_id=103000000006010)  
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