

POWER TECHNOLOGY

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Nam Ngum 2 Hydroelectric Power Project, Laos

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Nam Ngum 2 Hydroelectric Power Project is a 615MW hydro power project. It is located on Nam Gnum river/basin in Vientiane, Laos. The project is currently active. It has been developed in single phase. The project construction commenced in 2006 and subsequently entered into commercial operation in 2010.

Project Type	Total Capacity (MW)	Active Capacity (MW)	Pipeline Capacity (MW)	Project Status	Project Location	Project Developer
Hydropower	615	615	–	Active	Vientiane, Laos	SouthEast Asia Energy

Description

The project was developed by SouthEast Asia Energy. CK Power Public, Electricite du Laos and RATCH Group are currently owning the project having ownership stake of 28.5%, 25% and 25% respectively.

Nam Ngum 2 Hydroelectric Power Project is a reservoir based project. The hydro reservoir capacity is 4,200 million cubic meter. The gross head of the project is 146m. The total number of penstocks, pipes or long channels that carry water down from the hydroelectric reservoir to the turbines inside the actual power station, are 3 in number. The penstock length is 295m. The penstock diameter is 6.2m. The project generated 2,300 GWh of electricity.

Development Status

The project construction commenced in 2006 and subsequently entered into commercial operation in 2010.

Power Purchase Agreement

The power generated from the project is sold to Electricity Generating Authority of Thailand under a power purchase agreement for a period of 25 years.

Contractors Involved

Toshiba Energy Systems and Solutions was selected as the turbine supplier for the hydro power project. The company provided 3 units of francis turbines, each with 205MW nameplate capacity.

Mitsui supplied 3 electric generators for the project.

About SouthEast Asia Energy

SouthEast Asia Energy Company Limited is engaged in generation of electricity through hydro power plant. It owns and operates 615-megawatt Nam Ngum II hydropower plant in Laos.

Methodology

All power projects included in this report are drawn from GlobalData's Power Intelligence Center. The information regarding the project parameters is sourced through secondary information sources such as electric utilities, equipment manufacturers, developers, project proponent's – news, deals and financial reporting, regulatory body, associations, government planning reports and publications. Wherever needed the information is further validated through primary from various stakeholders across the power value chain and professionals from leading players within the power sector.

Scaling of power plants by emerging markets

Which key technologies will play a major role in energy transition? Please select all that apply.

- Green hydrogen
- Carbon capture and storage
- New energy storage battery technology
- Grid-to-Vehicle (G2V) and Vehicle-to-Grid (V2G)

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