

Nam Kong 1 Dam images below:



Nam Kong 1 Dam hydropower project was completed and went online in late 2021.

The Nam Kong 1 Dam is on the Nam Kong (river) in Phouvong District, Attapeu Province, Lao PDR near the border with Cambodia.

The investors in the US \$335.8 million project are China International Water & Electric Corp., with a 65 percent share, Electricite du Laos (EDL) with a 20 percent share and Lao-owned Investment and Hydro Power Consultant Sole Co., Ltd. holding the remaining 15 percent.

The project consists of an 80-meter-high dam and a reservoir expected to flood 21.8 sq km of land and extend for 30 km behind the dam creating a long deep reservoir.

The project installed capacity is 160 MW from two turbine-generator sets with 633 GWh annual capacity. The power generated is planned to be sold to Vietnam.

The gross head of the project is 190 meters. The penstock length is 600 meters with a diameter of 5.8 meters.

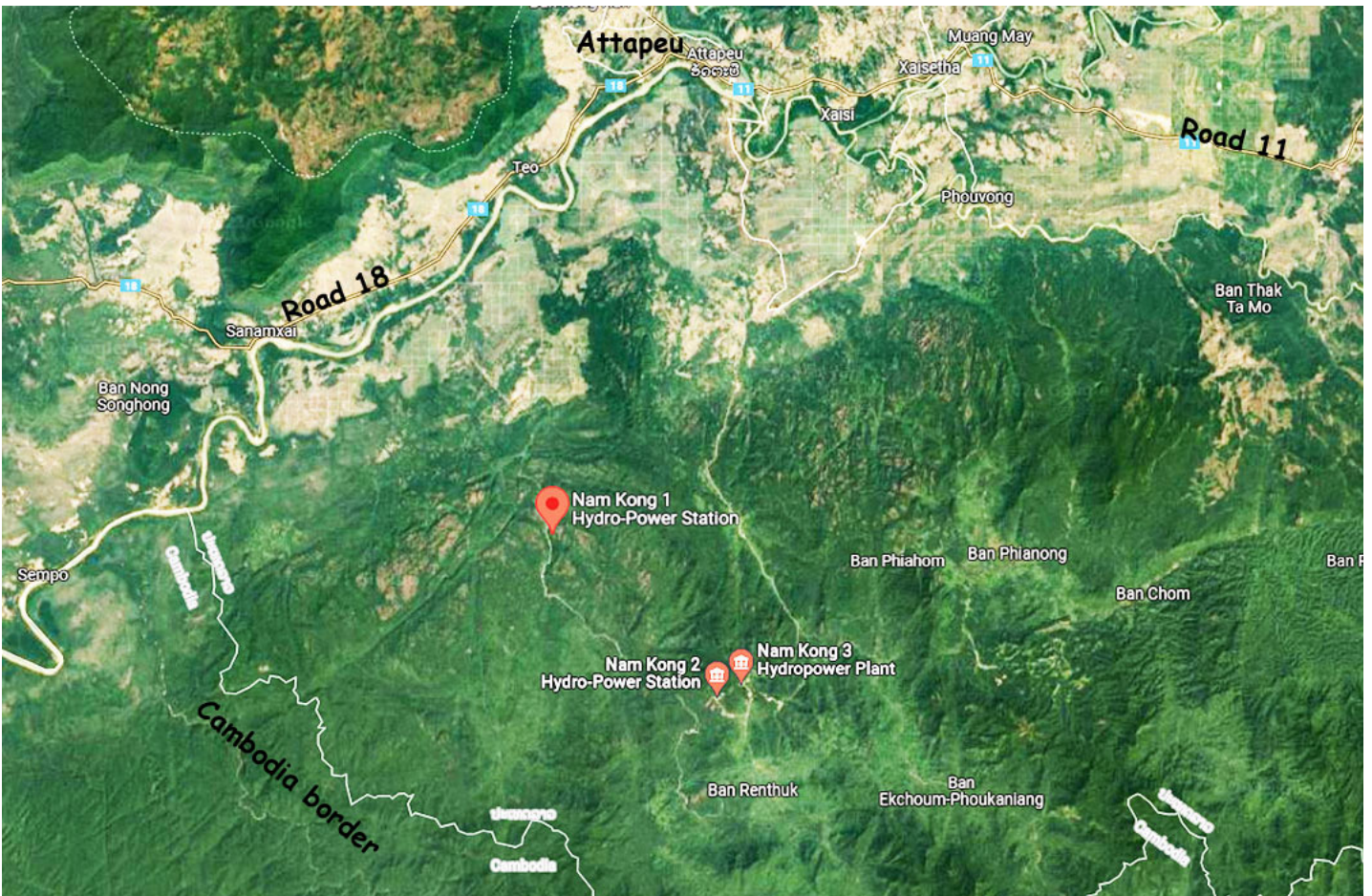
Nam Kong 1 intake structures image below:



The Project catchment area is 1,250 square kilometers. The reservoir full supply level surface is 320 meters above mean sea level with low supply level at 287 meters above mean sea level. Active storage volume is 505 million cubic meters.

The Nam Kong 1 hydropower plant is the first in Laos to have an underground engine room with a tunnel about 3,100 meters long leading to the entrance. Water flows from the dam down to the engine room.

There are two other hydropower plants on the Nam Kong river - Nam Kong 2 & 3 and all three locations are shown in the satellite image below. Nam Kong 1 is approximately at coordinates - 14°34'30.0"N 106°44'09.6"E (14.575, 106.736)



Nam Kong 1 secondary dam images below:



Nam Kong 1 construction site area image below:



Nam Kong 1 statistics below:

Item		Specification
Catchment Area		1,250km ²
Dam	Height	85.3m
	Length	379.1m
	Effective Storage	505 mil. m ³
	Area of Reservoir	21.8km ²
Headrace Tunnel	Length	2,955m
Transmission Line	Length	41km
Access Road	Length	31.8km
Output		150MW/75MW
Annual Generation		563GWh/469GWh

Nam Kong 1 controls image below:



Nam Kong 1 generator images below:





Nam Kong 1 apparatus images below:



Nam Kong 1 tunnel construction image below:



Nam Kong 1 Dam is located at lower area of map below:



Concept image of what the Nam Kong 1 Reservoir may look like is shown below:

