

Xekaman 1 Dam Hydropower Info - by Hobo Maps -

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Xekaman 1 Dam and Powerhouse image below:



Xekaman 1 Dam and reservoir images below:





Xekaman 1 powerhouse and tailrace image below:



Xekaman 1 Hydropower Project with total investment of US\$ 441 million is built on the Xekaman river in Sanxay district, Attapeu province, Lao PDR. It contains 2 subprojects: Xekaman 1 hydropower plant in the upper section of the river and Xekaman Sanxay hydropower plant in the lower section.

Together they have power output capacity of 322 MW. 20% of the output is planned to be used for domestic consumption and 80% exported to Vietnam through a 500 kV transmission system connecting Ban Sok–Attapeu in Lao PDR to Pleiku–Gia Lai in Vietnam.

The Project is located in both Sanxay and Sayxetha districts of Attapeu province about 80 kilometers away from the Laos-Vietnam border post of Phu Cua, Laos and Kon Tum, Vietnam.

Xekaman 1 Hydropower Project developer is Xekaman 1 Power Company Limited. Main contractor is Song Da Corporation. Construction period was 2011 – 2016.

Estimated total cost for the two projects was \$ 441.6 million USD.

The project operates under a Concession Agreement between the government of Laos and Xekaman 1 Power Company Limited for a term of 25 years from the commercial operation date. The Power Purchase Agreement with Electricite Du Laos (EDL) was signed on October 28, 2010 and the purchase agreement with Electricity of Vietnam (EVN) was signed on March 02, 2011.

Xekaman 1 hydropower project has designed capacity of 290 MW consisting of two turbine units of 145 MW each. Xekaman Sanxay hydropower plant has designed capacity of 32 MW with two turbine units 16 MW each. Together they have an average annual output potential of 1,220 GWh.

Unit 1 of Xekaman Xanxay hydropower plant has been operating since January 2018. Unit 2 came into use June 2018.

The Project catchment area is 3,580 square kilometers. The reservoir full supply level surface is 230 meters above mean sea level with low supply level at 218 meters above mean sea level. Active storage volume is 1,683 million cubic meters.

Xekaman 1 Dam site location is at coordinates 14°57'36.2"N 107°09'19.9"E (14.960041, 107.155538)

Xekaman 1 and XeKaman-Sanxay hydropower plant locations shown in satellite image below:



Xekaman 1 site shown in satellite images below:





Xekaman 1 reservoir shown in satellite image below:



XeKaman 1 project details below:

Dam:	Xekaman 1		Country	Laos
River	Xe Kaman	14°57'38.73"N 107°9'19.95"E	14.960758 107.155540	
Owner/Client	Xekaman Power Ltd.			
Designer/Engineer	Song Da Ukrin Consulting Engineering			
Contractor	Song Da Corporation (SDC)			
Purpose (code)	H			
Site start	01.03.2012			
RCC start	01.05.2013			
RCC completion	15.07.2015			
Site completion	30.12.2016			
Height (m)	120			
Length (m)	335			
Volume of RCC (m ³ x10 ³)	870			
Total volume (m ³ x10 ³)	1065			
Reservoir capacity (m ³ x10 ⁶)	3120			
Upstream slope	V			
Forming of upstream face (code)	(3') *			
Downstream slope				
Forming of downstream face (code)	(3') *			
Spillway slope				

Under Construction



RCCDAM0636UC

Completed Dam



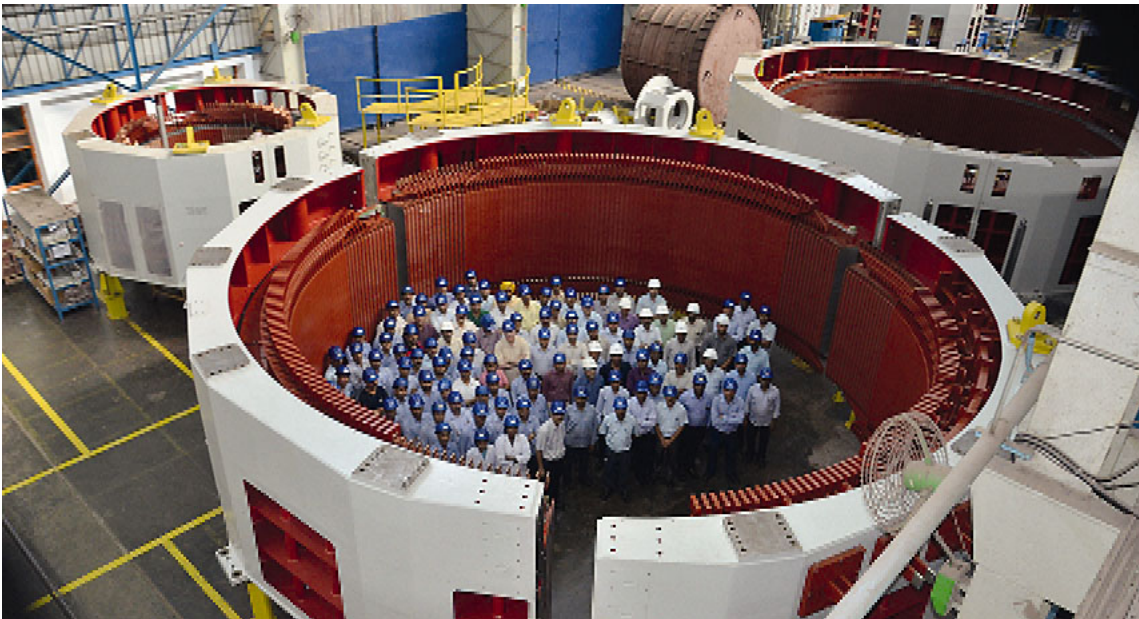
RCCDAM0636CD

The Xekaman 1 Hydropower plant transmission system consists of a 70 km section from Xekaman 1 Hydropower Plant to the Vietnam border (invested by Xekaman 1 Power Company Limited–Viet Lao Power Joint Stock Company) and a 119 km section from Bo Y border gate in Kon Tum Province, Vietnam to Pleiku 2 substation invested by EVN.

Xekaman 1 hydropower switch yard image below:



Xekaman 1 stator at factory below:



Xekaman 1 powerhouse images below:





Xekaman 1 powerhouse rotor installation image below:



Xekaman 1 control room below:



Concept image of XeKaman 1 hydropower project site below as it was planned to look.



Xekaman 1 and Xekaman-Sanxay hydropower projects are located at right side of map below:



Note: The Lao words "Xe" and "Nam" both mean "river" and a term such as "Nam XeKaman" is not normally used.