

- POWER PLANTS
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History of Edits for Nam Nguouang Hydroelectric Power Plant Laos
All Edits Awaiting Moderation

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Hydro in Peoples Democratic Republic of Lao:

- [Houay Ho Hydroelectric Power Project Laos](#)
- [Nam Nguouang Hydroelectric Power Plant Laos](#)
- [Nam Leuk Hydroelectric Power Plant Laos](#)
- [Nam Lik 1-2 Hydroelectric Power Project Laos](#)
- [Nam Ngum 1 Hydroelectric Project Laos](#)
- [Nam Ngum-2 Hydroelectric Power Project Laos](#)

ABSTRACT

Nam Nguouang Hydroelectric Power Plant Laos is located at Bolikhamxai, Peoples Democratic Republic of Lao. Location coordinates are: Latitude= 18.2931, Longitude= 104.6376. This infrastructure is of TYPE Hydro Power Plant with a design capacity of 60 MWe. It has 2 unit(s). The first unit was commissioned in 2012 and the last in 2012. It is operated by Theun-Hinboun Power Co Ltd.

IDENTIFIERS FOR HYDRO

Name

Status of Plant

Plant Efficiency and Impact

Plant Overall Rating State-of-the-art Worth Duplicating Environmentally Responsible

Country Assigned Identification Number

GEO Assigned Identification Number

Select Currency for data in this page

LOCATION

Latitude: Longitude:

This location is: Exact Approximate Within 50km Unknown

Draw Lines: Draw Polygons:

Area = 0.02 km² Associated Infrastructure: Theun-Hinboun Hydroelectric Power Project Laos

Length = 6.09 km Associated Infrastructure: Theun-Hinboun Hydroelectric Power Project Laos

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Map data ©2022 Imagery ©2022 TerraMetrics
Bolikhamxai, Peoples Democratic Republic of Lao

Width: px Height: px

DESCRIPTION

Design Capacity (MWe)

Firm Capacity (MWe) Plant Load Factor (%)

Location

Type of Plant Short Description

Power Plant Used For

River/Lake/Canal Dammed

Year Project Commissioned

Project Benefits Power Generation Irrigation Water / Flood Management Navigation Recreation and Sports Tourism City Water Fish

Power Production Potential At Design GW Hours per year at water head (m)

High Season Generation Months to

Configuration of Powerhouses Distance from Dam (m)

Electric Power Grid Connected To Name/Operator PPA(years)

Name of SubStation Connected To

Mean River Flow (cum/sec)

95.1

Name of **Main Reservoir** **Lower Reservoir (if pumped storage)**

Catchment Area (sq km)

At Full Reservoir Level (FRL) **Surface Area (sq km)** **Altitude (m)**

Capacity of Main Reservoir (MM cum) **at FRL** **Useful/Live**

Annual Flow Into Reservoir (MM cum)

Sedimentation Rate (MM cum/year) **Impact on Project**

Energy Content at FRL (GW hours)

Altitude Above Sea Level Main Reservoir (m) **at Maximum** **at Minimum**

Name of Dam

Height of the Dam (m) **Crest Altitude (m)**

Crest Length of the Dam (m)

Width of Dam **at Crest (m)** **at Base (m)**

Type of Dam **Describe**

Height of Water Head **at Maximum (m)** **at Minimum (m)**

Water Flow Rate Through Turbines (cum/sec) **Max Velocity (m/sec)**

Water Storage Pumping Rate (cum/sec) **Max Pumping Power (MWe)**

FRL Generation Duration (hours) **at Power (MWe)**

Water Storage Pumping Time (hours) **at Power (MWe)**

Water Management Description

Environmental Issues

Capital Cost of Plant **and/or In US Dollars** **In Year (YYYY)**

ASSOCIATED INFRASTRUCTURE (AI)

Theun-Hinboun Hydroelectric Power Project Laos

UNIT INFORMATION

Unit #	Capacity (MWe)	Date Commissioned (yyyy-mm-dd)	Decommission Date (yyyy-mm-dd)	Turbine Manufacturer	Turbine Model/Type	Speed (RPM)	Generator Manufacturer	Generator Model/Type	Hydraulic Head (m)	Unit Efficiency (%)
<input type="checkbox"/> 1	<input type="text" value="30"/>	<input type="text" value="2012-12-00"/>	<input type="text"/>	<input type="text" value="VA Tech"/>	<input type="text" value="Francis Vertical"/>	<input type="text"/>	<input type="text" value="VA Tech"/>	<input type="text"/>	<input type="text" value="56"/>	<input type="text"/>
<input type="checkbox"/> 2	<input type="text" value="30"/>	<input type="text" value="2012-12-00"/>	<input type="text"/>	<input type="text" value="VA Tech"/>	<input type="text" value="Francis Vertical"/>	<input type="text"/>	<input type="text" value="VA Tech"/>	<input type="text"/>	<input type="text" value="56"/>	<input type="text"/>

ENVIRONMENTAL ISSUES

Issue 1 **Description**

PAST AND FUTURE MAJOR UPGRADES

Upgrade 1 **Cost** **Year**

OWNER AND OPERATOR INFORMATION

Owner 1 **% Share**

Owner 2 **% Share**

Owner 3 **% Share**

Type of Ownership

Construction/EPC Contractor

Operating Company

Regulatory Authority

Project Financed By

ANNUAL PERFORMANCE

Performance Statistics for

Select	2000	2001	2002	2003	2004	2005	2006	2007	
<input type="checkbox"/> Total Gigawatt Hours Generated	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="checkbox"/> Plant Load Factor (%)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-
<input type="checkbox"/> Average Tariff (currency/kWh)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-
<input type="checkbox"/> Annual Water Flow (Million cum/year)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-
<input type="checkbox"/> Energy Content at Full Reservoir Level (GW hours)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-
<input type="checkbox"/> Annual Operating Expenses	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-
<input type="checkbox"/> Annual Maintenance Expenses	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-
<input type="checkbox"/> Capital Expenditure	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-
<input type="checkbox"/> Number of People Employed	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-

COMMENTS

Comment 1

REFERENCES

Reference 1


Reference 2

Reference 3

Reference 4

NOTES

* cum = cubic meters; MWe = Megawatts electric; MM=million; m=meters

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