

POWER PLANTS FUELS AND RESOURCES ENERGY TRANSMISSION ENERGY CONSUMERS MAP DATA IN GEO

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Last Edited by rajangupta on 2014-11-16 19:34:24 History of Edits for Houay Ho Hydroelectric Power Project Laos All Edits Awaiting Moderation

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Hydro in Peoples Democratic Republic of Lao:

Homay Ho Hydroelectric Power Project Laos Nam Gnouang Hydroelectric Power Plant Laos Nam Leuk Hydroelectric Power Plant Laos Nam Lik 1-2 Hydroelectric Power Poject Laos Nam Ngum I Hydroelectric Project Laos

Nam Ngum-2 Hydroelectric Power

ABSTRACT

Houay Ho Hydroelectric Power Project Laos is located at Eastern part of the Bolaven Plateau in Champassak and Attapeu Provinces, Laos. Location coordinates are: Latitude= 15.0595, Longitude= 106.7644. This infrastructure is of TYPE Hydro Power Plant with a design capacity of 152.1 MWe. It has 3 unit(s). The first unit was commissioned in 1999 and the last in 1999. It is operated by Houay Ho Power Company Ltd.

	Identifiers for Hy	DRO
Name	Houay Ho Hydroelectric Power Project Laos	
Status of Plant	Operating Fully	
Plant Efficiency and Impact	Please Select	~
Plant Overall Rating	\square State-of-the-art \square Worth Duplicating \square Environmentally Res	onsible
Country Assigned Identification Number		
GEO Assigned Identification Number	41643	
elect Currency for data in this page	Kip ✓	

	Number	41643						
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				Location				
Latitude	: 15.0595	Longitude: 106.7644		Update Placemarks Resto	ore Placemarks			
		imate O Within 50km O Uni	known					
Draw Li				Polygons:				
~	Area = 0.03 km ² Description	Restore from		saved Delete this Overlay				
✓	Length = 3.21 km Description	: Headrace tunnel and p	Restore from	saved Delete this Overlay				
			•			[]		
es only	/ For developm	ent pulposes only	For develo	oment purposes only F	or development purposes only	For deve		
God	ogle			Mon data	a ©2021 Imagery ©2021 CNES / Airbus, Maxa	or Tochnologics		
Width:		px Resize Map		Map data	Champasak, Peoples Democratic			
	Design Capacity (MWe)	152.1	D	ESCRIPTION				
	Firm Capacity (MWe)	Plant	Load Factor (%	50				
	Location	Eastern part of the Bolav	en Plateau in 0					
	Type of Plant	Dam on river with reserve	oir	Short Description Water transfer	red from Houay Ho stream			
	Power Plant Used For	Please Select	~					
	River/Lake/Canal Dammed	Houay Ho River						
	Year Project Commissioned	1999						
	Project Benefits	✓ Power Generation ☐ Irriga	ition Water / F	lood Management Navigation Rec	reation and Sports Tourism City Water	Fish		
	Power Production Potential At Design	CW House par year at water head (m)						
Hi	igh Season Generation Months			to				
	Configuration of Powerhouses	One surface powerhouse		Distance from Dam (m)				
Elec	etric Power Grid Connected To	National Grid	∨ Name/0	Operator EDL and EGAT	PPA(years)			
Nam	ne of SubStation Connected To							
	Mean River Flow (cum/sec)							
	Name of	Main Reservoir Houay Ho		Lower Reservoir (if p	pumped storage)			
	Catchment Area (sq km)	195						
	At Full Reservoir Level (FRL)			Altitude (m)				
-1	pacity of Main Reservoir (MM cum)	at FRL 52/	Useful/Live 40	U				
	Annual Flow Into Reservoir	(MM cum) 221						
Sedin	nentation Rate (MM cum/year)	Impa	ct on Project					

Energy Content a	t FRL (GW hours)								
Altitude Abov	ve Sea Level Main Reservoir (m)	at Maximum	at N	finimum					
	Name of Dam								
Heig	ght of the Dam (m)	76	Crest Altitude (n	1)					
Crest Leng	gth of the Dam (m)								
	Width of Dam		at Ba	ase (m)					
		Please Select			∨ Describ	e			
	ight of Water Head			at Minimum (m)					
	Through Turbines			elocity (m/sec)					
	rage Pumping Rate			imping Power (MV	Ve)				
	eneration Duration		at Power						
	age Pumping Time	(hours)	at Power	(MWe)					
Water Management Description									
	vironmental Issues			llars 243000000		anna 1000			
Ca	apital Cost of Plant			TED INFRASTR		(YYYY) 1999)			
Add Al Delete	e Selected Al								
			τ	J nit Informa	TION				
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 (%)
75	1999-09-03		Sulzer Escher V	Francis		ABB			
,	1000 00 02		Sulzor Foobor V	Erancis		ABB			
75	1999-09-03		Sulzer Escher V	i idilus		עטט			
2.1	1999-09-03			Pelton					
Add Another U	nit Delete Sele	ected Unit							
Environmental Issues Issue Please Select Category Description									
Add Another Is	sue Delete Se	lected Issue							
PAST AND FUTURE MAJOR UPGRADES Upgrade Cost Year									
Add Another Up	parade Delete	Selected Upgrad	de						
				nd Operator	Informatio	ON			
Owner Electr	ricite du Laos (E	dL)						% Share 20	
	Company Ltd (1	Thailand)						% 67.2	5
								Share	
Owner Hema	araj Land and De	evelopment						% Share 12.7	5
Add Another O	wner Delete S	elected Owner							
	Type of Ownership	Joint Venture							
Construction	on/EPC Contractor	Daewoo Engine	ering Corporation						
O	Operating Company	Houay Ho Powe	er Company Ltd						
Re	egulatory Authority								
P	roject Financed By	Daewoo							
				NUAL PERFOR	MANON				
			AN	NUAL PERFOR	IMANCE				
			ed Parameters vs		tio of 2 selecte				
Select	2000	9 V Plot Select		Years Plot Ra	tio of 2 selecte	d Parameters 2005	2006	2007	2008
Select Total Giga	2000 awatt Iours		ed Parameters vs				2006	2007	2008
Select Total Giga H Gener	2000 awatt lours rated		ed Parameters vs				2006	2007	2008
Select Total Giga H Gener Plant I Factor	2000 awatt dours rated Load		ed Parameters vs				2006	2007	
Select Total Giga H Gener Plant I Factor Average T	2000 awatt tours rated Load (%)		ed Parameters vs				2006	2007	
Select Total Giga H Gener Plant I Average T (currency/k Annual W	2000 awatt tours rated Load - (%) Fariff Wh)		ed Parameters vs				2006	2007	
Select Total Giga H Gener Plant I Factor Average T (currency/k Annual W Flow (Mi	2000 awatt lours rated Load Fariff Wh) Vater illion		ed Parameters vs				2006	2007	-
H Gener Plant I Factor Average T (currency/k Annual W Flow (Mi cum/y Energy Cor	2000 awatt tours rated Load (%) Vater illion vector		ed Parameters vs				2006	2007	-
Select Total Giga H Gener Plant I Factor Average T (currency/k Annual W Flow (Mi Energy Cor	2000 watt lours lours lours loud lours lou		ed Parameters vs				2006	2007	-
Select Total Giga H Gener Plant I Factor (currency/k Annual W Flow (Mi cum/y Energy Con Reservoir I (GW ho	2000 iwatt 2000 iwatt Load (%) (%) Why Vater Sillilion Sillilion Level		ed Parameters vs				2006	2007	-

Expenses							_		
Annual Maintenance									
Expenses							_		
Capital Expenditure									
Number of People Employed									
COMMENTS									
Comment Most (98%) of the power is exported to Thailand and sold to EGAT under a 30 year PPA									
Comment HHPC power plant is a joint venture between Glow Company Ltd, Electricite du Laos (EDL), and Hemaraj. PPA with EGAT and EDL									
Add Another Comment De	elete Selected Comments								
References									
Reference http://www.poweringprogress.org/index.php?option=com_content&view=category&id=128&Itemid=73									
Reference http://www.industcards.com/hydro-laos.htm									
Reference http://www.glow.co.th/index.php?op=product_business_line_plants-detail&cid=2&id=14									
Reference 4									
Add Another Reference De	elete Selected References								
Notes									
* cum = cubic meters; MWe = Megawatts electric; MM=million; m=meters									

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