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Project In Brief

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The 410MW Xe-Pian Xe-Namnoy Hydroelectric Power Project consists of a series of dams, reservoirs and water transfer conduits to contain and divert the waters of the Houay Makchanh, the Xe-Namnoy and Xe-Pian Rivers on the Bolaven Plateau in Champasack Province and thence to a hydropower generating plant at the base of the Plateau in the Province of Attapeu, all in Southern Laos. The dams, reservoirs, upper water channels and surge shaft are located in the eastern corridor of the Plateau in Champasack Province, while the lower water channels, vertical pressure shaft, high pressure tunnel, penstock, powerhouse, switchyard and tail race water channel are positioned about 5 km. to the

northwest of the base of the Plateau in the Province of Attapeu.

The hydraulic potential of a system of river flows on the Bolaven Plateau were exploited rationally. Water from the Houay Makchanh were impounded and diverted to the Xe-Pian catchment along the Xe-Pian River whose waters were likewise impounded. Water from the Xe-Pian Catchment are channeled to the Xe-Namnoy Reservoir which is also fed by the Xe-Namnoy River. The Xe-Namnoy Reservoir in turn conveys water through an underground water transfer conduit, vertical pressure shaft, high pressure tunnel and penstock to drive the turbines of one Pelton and three Francis generators at the powerhouse to produce electricity. Meanwhile, a tailrace water channel discharges water from the Powerhouse to the Xe Kong River before it reaches the Mekong River. To ensure that the environmental and ecological integrity of the river below the Xe-Pian Dam is maintained, the Xe-Namnoy Reservoir provides a constant and environmental release flow.

The Project generates 1,879 Gwh of electricity per year. The Project exports 90% of the electric power it generates to Thailand under a Power Purchase Agreement between the Electricity Generating Authority of Thailand and the PNPC, while the remaining 10% is sold to the local grid under a Power Purchase Agreement between the PNPC and the Electricite du Laos.

The PNPC currently operates and manages the Project until its 27-years Concession Period expires. Commercial operations commenced in December 22019 after a 5-years Construction Period. After the expiry of its Concession Period, the PNPC will transfer the Operations and Management of the Project to the Government of Laos.

Project History

2019 – 2020



- April 20, 2020: Confirmation of Commercial Operations Date issued by DEB-MEM
 - March 30, 2020: Certificate of Completion issued by DEM-MEM
 - January 28, 2020: Certification on the Commercial Operations Date issued by EDL
 - December 6, 2019: Commercial Operations Date
 - December 6, 2019: EGAT Certificate of Readiness for Operation for Generator Subsystem: Joint Operation of all Generator Subsystems
 - December 5, 2019: End of Construction Phase
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2015 – 2017

- April 9, 2015: The Xe-Namnoy River is diverted.
 - February 16, 2015: The Xe-Pian River is diverted.
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2012 – 2014

- February 6, 2014: Financial Close with Lenders and Initial Drawdown.
- November 28, 2013: Project Financing Documents are signed.
- November 28, 2013: Construction Supervision Contract between PNPC and RATCH is signed.
- November 15, 2013: Commencement of Construction Phase.
- November 15, 2013: Engineering, Purchase and Construction Agreement between PNPC and SK ecoplant is signed.
- November 14, 2013: Operations and Maintenance Agreement between PNPC and KOWEPO is signed.
- August 22, 2013: Certificates of Fire Prevention and Protection Plan are issued.
- May 10, 2013: The PNPC-EDL Power Purchase Agreement is signed.
- April 18, 2013: Annex G of the Concession Agreement is signed by the Ministry of Natural Resources and Environment.
- March 26, 2013: Certificates for the EIA, EMMP and RMP Report are issued.
- March 23, 2013: Concession Registration Certificate is issued.
- February 6, 2013 PNPC-EGAT Power Purchase Agreement is signed.
- February 1, 2013: Land Lease Agreement is signed between PNPC and the GOL.
- December 6, 2012: Tariff MOU with Electricite du Laos between PNPC and EDL is signed.
- October 22, 2012: Certificates for the Xe-Pian Dam, Xe-Namnoy Dam, Houay Makchanh Weir, Saddle Dams, Powerhouse and Operator's Village are signed.
- October 19, 2012: Concession Agreement between PNPC and the GOL is signed.
- May 2, 2012: Electricity Business Operations License is issued.
- April 18, 2012: Official Seal approved.
- March 23, 2012 The PNPC is founded by the four major Shareholders.
- March 12, 2012: Certificate of Taxpayer Identification is issued.

2009 – 2011

- June 15, 2011: Shareholders' Agreement is signed by all major Shareholders.
 - September 29, 2011: Enterprise Name Approval Certificate is issued.
 - August 16, 2010: Tariff MOU with the Electricity Generating Authority of Thailand is signed.
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2006 – 2008

- November 14, 2008: Project Development Agreement between the GOL, SKE&C, RATCH and KOWEPO is signed.
 - August 6, 2007: Joint Development Agreement between RATCH and SK ecoplant is signed.
 - August 3, 2006: Project Development MOU between the GOL and initial consortium is signed.
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2003 – 2005

- October 23, 2003: MOU between the Korea & Laos Power Development Company and The Government of Laos (GOL) is signed.
 - July 19, 2005: Project Development MOU between SK ecoplant and KOWEPO is signed.
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