Lao People's Democratic Republic: LAO: GMS NAM THEUN 2 HYDROELECTRIC PROJECT

Project Name: LAO: GMS NAM THEUN 2 HYDROELECTRIC PROJECT
Project Number: 37910-014
Borrower/Company: NAM THEUN 2 POWER COMPANY LIMITED
Country: Lao People's Democratic Republic
Location: Lao People's Democratic Republic
Approval Number: 7210/2161
Type of ADB Assistance / Amount: USD 50.00 million Committed

Strategic Agendas: Inclusive economic growth
Drivers of Change: Private sector development
Sector / Subsector: Energy - Large hydropower generation

Gender Equity and Mainstreaming: 
Responsible ADB Department: Private Sector Operations Department
Responsible ADB Division: Portfolio Management Division, PSOD
Responsible ADB Officer: Gulshan, Karan Raj
Project Sponsor(s): Electricite de France, Electricity Generating Public Company Limited, Lao Holding State Enterprise

Description:
The Project includes the development, construction and operation of a 1,070 megawatt (MW) trans-basin diversion power on the Nam Theun River, a tributary of the Mekong, in the central region of the Lao People's Democratic Republic (Lao PDR). A 450 square kilometer reservoir will be formed on the Nakai Plateau by constructing a dam 39 meters high northwest of the plateau. Water from the reservoir will drop about 350 meters to a powerhouse. The Project will divert about 260 cubic meters of water per second through a power station to the Xe Bang Fai River Basin, also a tributary of the Mekong. The water discharged from the power house will be released to the Xe Bang Fai through a 27 kilometer channel and a regulating pond.

The Project will export 5,354 gigawatt-hours (GWh) of electricity to Thailand and will provide revenue to the Lao PDR through taxes, royalties, and dividend. About 200 300 GWh will be supplied to electricity consumers in the Lao PDR. The Project is structured as a build-own-operate-transfer, with a concession period of 31 years, of which the operating period is 25 years. At the end of the concession period, the project facilities will be transferred to the Government free of charge.

Objectives and Scope:
The Project:
(i) supports the Government of Laos' poverty alleviation efforts by generating income of about $1.9 billion over the life of the Concession to support Government poverty reduction programs;
(ii) supports the Government's energy policy of developing hydropower resources to generate revenues from the export of power;
(iii) promotes private sector participation in infrastructure;
(iv) will supply Thailand with long-term and competitively priced power and strengthen its security of supply; and,
(v) promotes regional cooperation as the Project is part of the GMS Master Plan for power generation.

Status of Development Objectives: Will be evaluated upon completion of the project.
Status of Operation/Construction: Commercial Operation Date was achieved on 30 April 2010. The project is operating satisfactorily and achieving annual generation targets.
Linkage to Country/Regional Strategy: ADB’s country strategy and program for the Lao PDR aims to promote sustainable economic growth and development through infrastructure investments. Specifically, ADB will continue to help to develop the country’s energy resources, including hydroelectric power resources in a sustainable manner.

Safeguard Categories:

Environmental
Involuntary Resettlement
Indigenous Peoples

Summary of Environmental and Social Aspects:
Environmental Aspects:
The Project involves three ADB safeguard policies on involuntary resettlement, indigenous peoples, and environment. It also involves operational provisions in sector and thematic policies such as forestry, water, energy, and gender and development. The key safeguard documents are (i) the environmental assessment and management plan (EAMP), which assesses project impacts and details plans to minimize, mitigate, or compensate for these impacts; (ii) the SDP, to manage social impacts, including those related to resettlement, health, gender, and downstream impacts and to address special issues related to ethnic minorities; and (iii) the social and environment management framework and operational plan (SEMFOP), to manage the MNT NPA, including its corridors. The Government, NTPC, and IFIs also prepared the summary environmental and social impact assessment, cumulative impact assessment (CIA), and NT2 contributions, safeguard due diligence on the Thai transmission lines, social and environment cost benefit analysis, and capacity assessment. All NTPC obligations, including those related to social and environmental mitigation, are detailed in the safeguard documents and summarized in schedule 4 of the concession agreement.
ADB has promoted the informed participation of the Government, civil society, and other stakeholders in an open and inclusive manner. Throughout implementation, consultations have been carried out with project-affected people in the major impact zones: Nakai Plateau, project land areas, downstream Xe Bang Fai, downstream of the dam, among others. Information on the compensation and resettlement plans, and livelihood options have been presented to the project-affected people by trained community and district facilitators through media they can understand, including radio broadcasts in minority languages, visual materials together with verbal explanations, site visits to proposed and pilot resettlement areas, and open discussions. The project design was adjusted to accommodate concerns of the project-affected people, such as location of the plateau resettlement area, village layout, housing design, and types of crops under the livelihood program as well as livelihood options for project lands and downstream areas. Resettlement is ongoing and making progress. Measures to mitigate environmental impacts related to construction activities are being implemented and closely monitored. Significant consultations were carried out with affected persons and international community prior to Board presentation and approval. Stakeholder workshops are organized annually.

<table>
<thead>
<tr>
<th>Timetable for assistance design, processing and implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concept Clearance</strong></td>
</tr>
<tr>
<td><strong>Due Diligence</strong></td>
</tr>
<tr>
<td><strong>Credit Committee Meeting</strong></td>
</tr>
<tr>
<td><strong>Approval</strong></td>
</tr>
<tr>
<td><strong>PDS Creation Date</strong></td>
</tr>
<tr>
<td><strong>Last PDS Update</strong></td>
</tr>
</tbody>
</table>

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