

 Early Warning System

ADB-59265-002

Timor-Leste : Gariuai Mini-Hydropower Rehabilitation Project



### Quick Facts

Countries	Timor-Leste
Specific Location	Gariuai
Financial Institutions	Asian Development Bank (ADB)
Status	Proposed
Bank Risk Rating	B
Borrower	Government of Timor-Leste
Sectors	Energy, Hydropower, Law and Government
Investment Type(s)	Grant



### Project Description

As stated on the project disclosure page, in 2023, an initial assessment for rehabilitating the Gariuai Mini Hydroelectric Power Plant (MHPP) was conducted under ADB TA6813 TIM: Capacity Building of Electricidade de Timor-Leste in Distribution Network Operation and Maintenance by a Hydropower Specialist. This included a survey of the latest condition of the MHPP and the preparation of terms of reference for the rehabilitation.

The proposed project will conduct a detailed technical feasibility assessment of the MHPP and undertake the following (but not limited to) rehabilitation works, as needed:

- Hydrology studies and e-flows;
- Civil structural investigation and improvement, including the replacement of the penstock and anchor points;
- Hydromechanical and electromechanical components examination and replacement to ensure system efficiency and reliability;
- Replacement of power evacuation lines, protection equipment, supervisory control and data acquisition (SCADA) upgrades, automatic voltage regulator, and remote communication equipment;
- Detailed geological studies to assess landslide risks and propose mitigation measures.

ADB will support EDTL in preparing and supervising the engineering design, construction, and subsequent operation and maintenance (O&M) of the rehabilitated power plant. The project will incorporate a capacity-building program for EDTL, ensuring knowledge transfer throughout project implementation to enable the sustainable operation of the plant after the O&M period expires, supporting the utility develop future hydropower projects. This project may include training in project design, management, administration, safety protocols, and O&M.

Furthermore, the project will support an update of the 2011 Hydropower Master Plan, which was developed with Norwegian grant assistance and identified 14 economically viable hydropower projects, designed to generate power during both the dry and wet seasons. Given that the master plan was developed over a decade ago, an update is necessary to reassess project feasibility and align with the latest developments in Timor-Leste's power system and recent hydrology information.



### Early Warning System Project Analysis

The ADB categorized the project E&S risk as follows:

**Environment - B;**

**Involuntary Resettlement - C;**

**Indigenous Peoples - C.**



### Investment Description

- Asian Development Bank (ADB)

*Information on the investment amount was not provided at the time of disclosure.*



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### Contact Information

#### ADB Team Leaders:

Daniel Miller - Senior Energy Specialist

*No contacts provided at the time of disclosure.*

#### ACCOUNTABILITY MECHANISM OF ADB

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### Other Related Projects

- ADB-59265-001 Timor-Leste : Preparing the Gariuai Mini-Hydropower Rehabilitation Project