Early Warning System

ADB-58416-001

Hybrid Power Energy Enhancement Project

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Quick Facts

Countries	Tajikistan
Financial Institutions	Asian Development Bank (ADB)
Status	Proposed
Bank Risk Rating	B
Borrower	Government of Tajikistan
Sectors	Energy, Hydropower
Investment Type(s)	Grant
Investment Amount (USD)	$ 10.00 million
Grant Amount (USD)	$ 10.00 million

Project Description

As stated by the ADB, integrating FPV with the existing hydropower infrastructure will diversify the energy mix, providing a clean, reliable and consistent power supply throughout the year. This hybrid system will help mitigate the risks associated with seasonal hydropower fluctuations. It will provide reliable green electricity to meet growing demand at an affordable cost, reducing load shedding during winter months when hydropower alone cannot meet electricity demand.

By utilizing the reservoir surface, the project minimizes land use and preserves natural habitats, significantly reducing the carbon footprint and promoting environmental sustainability. Moreover, installation of floating solar panels could help conserve water resources by reducing evaporation from the reservoir, ensuring better water availability for hydropower generation and irrigation uses, thus enhancing overall water resource management and food security. FPVs benefit from the cooling effect of water, which enhances solar panel efficiency. This results in higher energy yields compared to land-based systems.

The electricity produced by the plant during the summer months will be exported to neighboring Central Asian countries through the already existing transmission facilities contributing to mitigation efforts in the region.

This project will be the first of its kind in the country, serving as a pioneering model for future initiatives to harness the potential of floating solar power in the country.

The project will include comprehensive training and capacity-building programs for local engineers and technicians, ensuring the successful implementation and maintenance of the FPV system.

Early Warning System Project Analysis

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

Environment - B
Involuntary Resettlement - B
Indigenous Peoples - C

Investment Description

- Asian Development Bank (ADB)

Contact Information

ADB Team Leader:

Daler Qubodbekov
Email: dqubodbekov@adb.org

ACCESS TO INFORMATION

You can submit an information request for project information at: https://www.adb.org/forms/request-information-form

ADB has a two-stage appeals process for requesters who believe that ADB has denied their request for information in violation of its Access to Information Policy. You can learn more about filing an appeal at: https://www.adb.org/site/disclosure/appeals

ACCOUNTABILITY MECHANISM OF ADB

The Accountability Mechanism is an independent complaint mechanism and fact-finding body for people who believe they are likely to be, or have been, adversely affected by an Asian Development Bank-financed project. If you submit a complaint to the Accountability Mechanism, they may investigate to assess whether the Asian Development Bank is following its own policies and procedures for preventing harm to people or the environment. You can learn more about the Accountability Mechanism and how to file a complaint at: http://www.adb.org/site/accountability-mechanism/main.

Other Related Projects

- ADB-58416-002 Floating Solar Energy Development in Tajikistan