PROJECT SUMMARY

Keban Small Hydropower Project, Turkey

Description of Project

This Voluntary Carbon Standard project generates clean hydroelectricity from a small 5MW plant, reducing carbon emissions by displacing fossil fuel use. The project supports the local economy by providing jobs and a sustainable fishery facility.

Project Location

Elazig Province, Turkey

Main Criteria

- Reduces emissions by displacing fossil fuel use for electricity generation
- Addresses high-level of unemployment in the region by providing jobs
- Without carbon investment, the cost of developing the hydro project would have been prohibitive
- A sustainable trout fishery is supported on the banks of the project reservoir

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PROJECT DETAIL

Keban Small Hydropower Project

Type of Greenhouse Gas Project:
Renewable Energy

Source of Greenhouse Gas Reduction:
The Keban 5MW Hydropower plant is a small-scale hydropower project in East Anatolia that generates renewable energy for the electricity grid. The project reduces greenhouse gas emissions by displacing fossil fuel generated electricty. The project also helps reduce ambient air pollution sources, such as sulphur and nitrous oxide, associated with fossil fuel combustion.

Why We Like It:
This project provides a number of other social and environmental benefits beyond a reduction in carbon emissions. The project is situated in Elazig province, the region with the highest unemployment rate in Turkey (around 18%) and prioritized for development by the state. The project has created new jobs during construction and operation of the hydropower plant, supporting economic regeneration of the area.

In addition to the employment generated by the hydropower plant itself, the project also supports a sustainable trout fishery located on the banks of the project reservoir. The trout fishery provides additional jobs and is a valuable source of food and income for the local community.

The project improves the electricity supply infrastructure in the region, reducing power shortages common in Turkey. This improves the quality of life for the surrounding communities, and supports local enterprise.

2,000 pomegranate trees have also been planted by the project developers to improve the local environment.

Independent Assurance:
This project complies with the additionality criteria established by the Clean Development Mechanism. Without carbon finance, the high up-front investment costs would have made the project unfeasible.

The carbon offset credits have been verified by an accredited third party auditor and are Verified Carbon Standard (VCS) certified.

Project in Brief

Reduces greenhouse gas emissions

Provides local employment in low-income area

Increases grid stability

Supports a sustainable fishery on the banks of the reservoir

25,000 tCO_2e of carbon offset credits available

VCS VERIFIED CARBON STANDARD
A Global Benchmark for Carbon

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