



PROJECT SUMMARY

Run-of-river Hydropower in Ceyhan Basin, Turkey

Source of Greenhouse Gas Reduction:

This renewable energy project uses run-of-river hydropower to reduce greenhouse gas emissions by displacing electricity on the grid produced by higher-emission fossil fuel sources. This also reduces ambient air pollution sources, such as sulphur and nitrous dioxides associated with fossil fuel combustion.

Why We Like It:

Unlike traditional hydroelectric dams, this run-of-river project uses a weir to divert only a portion of the river's flow. A natural drop in the terrain drives a turbine at the bottom of a hill, which reduces the social and environmental disruptions normally associated with traditional hydropower. International Rivers Network, an advocacy group that opposes large dam construction, actively supports the use of run-of-river projects.

In addition to emission reductions, this project makes a number of contributions to Turkey's overall sustainable development. The project creates employment, both directly and through procurement of services and equipment. The supply of hydroelectricity also stabilises the regional grid, reducing power shortages common in Turkey and supporting local enterprise.

Independent Assurance:

This project was assessed using the CDM Tool for Demonstration of Additionality. As a result of the project's remote location and the cost of the new technology, the project would not have been feasible without carbon finance.

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

Project Location

Elazig Province, Turkey

Type of Project

Renewable Energy

Emission Reductions

33,000 tCO₂e



Project in Brief

Reduces greenhouse gas emissions by displacing fossil fuels in electricity generation

Run-of-river technology minimises environmental and social impacts

Provides local employment and increases grid stability

