



PROJECT SUMMARY

# Cakit Run-of-river hydro power project, Turkey



## Description of Project

This Verified Carbon Standard and Social Carbon certified project reduces global carbon emissions by generating clean energy which displaces fossil fuel-generated electricity.

The project provides a range of social and environmental co-benefits including local employment and reforestation.

## Project Location

Karaisalı Town, Adana Province, Turkey

## Main Criteria

- Reduces emissions by producing renewable energy from flowing water, which displaces fossil fuel generated electricity on the grid
- The project supports a range of social and environmental benefits including reforestation, the creation of 13 jobs and environmental awareness campaigns in schools
- The project is the first hydropower and the first Turkish project to receive Social Carbon Certification



## PROJECT DETAIL

# Cakit Run-of-river hydro power project, Turkey

## Type of Greenhouse Gas Project:

Run-of-river hydropower project

## Source of Greenhouse Gas Reduction:

This 20MW hydropower project generates clean energy from the natural flow of the Cakit River, Turkey. In the absence of the project, the same electricity would have been generated by fossil fuel powered plants. Greenhouse gas reductions are achieved by displacing this carbon-intensive energy with renewable energy.

## Why We Like It:

The run-of-river hydropower technology has a low impact on the river ecology and surrounding area. Unlike large scale hydroelectric projects, the technology does not require the construction of a dam, therefore avoiding negative impacts of flooded land or displacement of communities. A fish observation study has indicated that there are no rare or endangered aquatic species in the river, and a fish ladder is planned to aid the migration of fish. The project area does not overlap with agricultural land, therefore having no effects on local irrigation.

This hydro project has a strong sustainable development focus, recognised by its Social Carbon certification. One of its benefits includes employment opportunities for 13 people with health insurance for the employees' families.

Additionally the project has maintained a strong focus on improving schools and the lives of school children in the local village of Kapikaya. Initiatives have included donations of shoes and school clothing, sponsorship of an environmental campaign for students, and the organisation of an Earth Day and Sports Day Event.

The project improves energy security in an area which frequently experiences power shortages and low quality electricity from the grid. Electrical installations and infrastructural improvements also provide a range of benefits to schools.

The environmental benefits of the project include the planting of more than 13,000 trees in the surrounding area and extensive slope protection programme has been implemented to prevent erosion and landsliding.

## Independent Assurance:

This project was assessed using the CDM Tool for Demonstration of Additionality to ensure that the project would not have been feasible without carbon finance. The carbon offset credits are verified by an accredited third party auditor and are Verified Carbon Standard (VCS) and Social Carbon certified.

For more information call us on: 0845 838 7564

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## Project in Brief

The project reduces greenhouse gas emissions by approximately 50,000 tCO<sub>2</sub>e/year

It is Verified Carbon Standard Certified

The first project to gain Social Carbon certification in Turkey, and the first hydropower project to be certified under this standard

