



Run-of-river hydro, Turkey

The power plant generates emission free electricity for the growing demand of the turkish power grid. Greenhouse gas emission reductions are achieved through utilizing the natural flow of water to generate electricity, which otherwise would have been generated through burning fossil fuel (coal).

Location



The Cakit Hydropower Plant, Turkey is a run-of-river hydropower project located in Adana province, Turkey.

Project



The project activity utilizes the water head on the Cakit River to generate and supply electricity from clean and renewable resources. Total installed capacity of the project is 20.2 MW, consisting of 2 turbines, with a predicted net power supply to the grid of 91,000 MWh per annum. The emission reductions of the project are validated and verified under the Verified Carbon Standard (VCS).

Besides being an emission reduction project, the Cakit Hydropower Plant is the very first hydropower project validated against the Social Carbon standard.

To keep the impact on the environment as low as possible, the electricity is being fed to the national grid through a 3.5 kilometer long underground cable, which has been constructed by the project owner.



Project achievements



Socio-economic impact:

- The project owner has started a CSR program for improving the quality of life at the project area, which has a low average income, low education level and little economic activities
- As a part of the project owner's CSR program, a project has been designed to renovate electrical installations in selected schools in Karaisali Town
- The project owner voluntarily provided shoes and clothing to school children as gift for the 2011-2012 school season
- Painting of the school buildings has been financed by the project owner.
- Sponsorship for the environmental campaign for children and students and for the Earth Day Event (5th June, every year).
- Sponsorship (prizes and awards for successful young sporters) for the sports tournaments during Youth Day (19th May, 2011).
- The project owner employed villagers from the Kapıkaya Village as guards for the project site.

Environmental impact:

- Replanting of forest is completed both in the upstream project area as well as the area in the hillside behind the powerhouse with more than 13,000 trees.
- In order to determine the fish populations in the river, the project owner has assigned a 3rd party for long-period fish observations in the regulatory area and along the canal roads, and extensive slope protection has been completed to prevent erosion and land slides.
- As a part of the land management project of the project owner, thresholds were established in the riverbed with natural stones in order to achieve small natural waterfalls and water surfaces with low water flow.

Checklist Project 300802



SOCIALCARBON® VCS | VERIFIED CARBON STANDARD
A Global Benchmark for Carbon

✓ Additionality and permanence:	according to the rules of the VCS
✓ 3 rd party verified::	by TÜV Nord
✓ Transparency:	provided by the Markit Environmental Registry
✓ Annual CO ₂ -reduction:	50,904 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	pictures available

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