



YESIL Hydroelectric Power Plant

Hydro Power Project

Project Name	YESIL HYDROELECTRIC POWER PLANT (HEPP)
Standard Utilised	VCS
VCS Project Number	806
Crediting Period Start	05 Dec 2009
Project Validator	Bureau Veritas Certification
Est. Annual Reductions	27,000tCO ₂ e



Location

Sivas province

Turkey





Project Description

The YESİL Hydro Electric Power Plant (HEPP) is a grid-connected small-scale hydropower plant with a run-of-river reservoir in Sivas province, Turkey. The total installed capacity of the Project is 14 MW, comprising three 4.666 MW turbines, with a predicted electricity supply to the grid of 56.16 GWh per annum.

The project is composed of a regulator, conveyance channel, headpool and a powerhouse. The regulator consists of water inlet structure, sediment pool, hard-filled weir and gravel passage. Water will be diverted at the regulator from 1,431 meters of altitude via the conveyance channel of 8,000 m and channelled into the headpool at the 1,426 m. Through penstocks of 840 m (total), the water will be carried to the powerhouse where two vertical type of Francis turbines lie.

Social and Sustainability Benefits

The project is contributing to sustainable development:

- ▤ Utilize the hydroelectric potential of Turkey to meet the increasing electricity demand and contribute improving regional energy security.
- ▤ Increase share of HEPPs in electricity generation mix of Turkey and reduce GHG emissions.
- ▤ Contribute to economic development by creating job opportunities during construction (72 people) and operation (13 people) phases.
- ▤ Reduce import dependency on fossil fuel weighed electricity sector and diversify generation mix through use of local resources.



Contact our team to discuss your offsetting requirements, and to ensure you find the project that meets all your own particular carbon neutrality needs