



Small hydro power, Turkey

In rural Anatolia, at the bottom of the Taurus Mountains, a hydropower plant (Kargilik plant) is generating clean energy. In addition to generating clean energy, the project involves reforestation.

Location



Located in the province of Kahramanmaraş in southeastern Anatolia, the hydropower project utilizes water from the Taurus Mountains, which rise up to 3700 metres.

Project



The Kargilik plant is a low-impact hydropower project that generates clean energy without the need for a retaining dam; it does not involve dam construction, flooding, resettlement, negative environmental impacts on river flora, etc. It makes use of the water of the Keşiş River and a natural height difference of 150 m to generate electricity that is transferred to the Turkish grid.

The total installed capacity of this greenfield project is 24 MW. The project consists of two turbines with an estimated net power supply of 71,000 MWh per annum.



Project achievements



Socio-economic impact:

- Long term employment for locals is being created in the areas of hydropower plant operation and maintenance.
- Technical training is being provided to employees, transferring “Green knowledge” and modern technology to a less-developed region.
- Locals are benefiting from infrastructure improvements.

Socio-economic impact:

- To improve air and soil conditions, the project owner is voluntarily investing in tree planting (on a large scale) in the catchment area. To date, 4,900 trees have been planted, most of which are almond, chestnut and peach saplings.



Checklist Project 301 228



✓ Additionality and permanence:	according to the rules of the VCS
✓ 3 rd party verified::	by Bureau Veritas
✓ Transparency:	provided by the Markit Environmental Registry
✓ Annual CO ₂ -reduction:	35,000 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available

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