



Small run-of-river hydro, Turkey

Hydropower is a form of energy that is generated by the conversion of free-falling water into electricity. It generates no emissions or waste. In addition to producing clean energy, hydropower is often used for irrigation and water distribution purposes.

Location



The project is located in Adiyaman province, Turkey. The region around the city of Golbasi is suffering from unemployment and weak infrastructure, making sustainable investments more than welcome.

Project



In the remote mountains of Anatolia, this run-of-river hydropower station uses two turbines to generate clean energy from river Karanlikdere. Using a natural height difference to generate sustainable electricity, it exports clean energy to the grid, replacing electricity from fossil-fuel based power plants.

By providing this rural region with reliable and sustainable energy, the project activity displaces diesel generators and wood-fired heating and lighting, which leads to better indoor/outdoor air quality and reduces respiratory/eye diseases.

Because the project reduces wood consumption and associated deforestation/soil erosion, it benefits the regional environment.



The project owners have enhanced local economic growth and sustainable development via the construction and repair, respectively, of bridges and roads.



Socio-economic impact:

- The project employs local people who live near the project site with jobs created during the construction, operational and maintenance phases.
- The project upgraded roads and bridges during the construction phase, leading to better access to regional markets and benefits to the local/regional economy (the project owners continue to provide financial support for their maintenance).
- The project is providing the region with stable electricity, which was not common before the installation of the project.



Environmental impact:

- The project is taking measures to allow the forest to regenerate, improving soil conditions, hydrology and biodiversity.



Checklist Project 301 080



✓ Additionality and permanence:	according to the rules of the VCS
✓ 3 rd party verified::	by Bureau Veritas
✓ Transparency:	provided by Markit Environmental Registry
✓ Annual CO ₂ -reduction:	32,000 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	pictures available

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