



Geothermal Power, Turkey

This project involves a geothermal power plant in Turkey. The power plant generates emission-free electricity and sends it to the Turkish power grid. Generating electricity from geothermal power is reducing greenhouse gas emissions, which in the absence of the project would have been released to the atmosphere via the burning of coal.

Location



The project is located in Aydin Province, in southwestern Turkey, in the Aegean region. Geothermal drilling is taking place in a sparsely populated region, on the southern hillside of the Aydin - Mountains.

Project



The emission-reduction project is bringing investments, modern technologies, technical knowledge and new jobs to a rural region in Turkey. The sustainable project is replacing carbon-intensive electricity from the grid (i.e. fossil fuels), co-funding the renovation of a local school and providing the school with modern education equipment.

The project includes the construction of a plant for sustainable electric power generation with an installed capacity of 9.5MW. Geothermal heat is brought to the surface through geothermal generation wells. The project employs state-of-the-art geothermal technology and helps Turkey meet its growing demand for energy.



Electricity is produced without any adverse environmental impacts, which is of great importance to a country whose GHG emissions have increased by about 85% since 1990. The operation of the plant avoids the emission of around 41'160 tonnes of CO₂ annually.

It is the first geothermal power plant developed in Turkey to receive the Gold Standard certification, which proves its positive impact on climate, people and environment.

Project achievements



Socio-economic impact:

- The construction of the geothermal plant generated about one hundred temporary jobs. About twenty people underwent technical training and found permanent work (with improved working conditions) in the operation of the plant.
- In line with the project owner's desire to support sustainable development, a local school received funding for the renovation of a building and was provided with modern teaching equipment (e.g., a digital projector).
- The project owner built a public playground (with a basketball court) for young children.

Environmental impact:

- By replacing fossil power from the grid, air pollution and associated diseases are being reduced.

Checklist Project 300 274



✓ Additionality and permanence:	according to the rules of the Gold Standard Foundation
✓ 3 rd party verified::	by Germanischer Lloyd Certification
✓ Transparency:	provided by the Gold Standard Registry
✓ Annual CO ₂ -reduction:	41,000 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available

For further information and to learn about availabilities please contact:

South Pole Carbon Asset Management Ltd., Sales Department
sales@southpolecarbon.com +41 43 501 35 50

www.southpolecarbon.com

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