south pole group

CAKIRLAR RUN-OF-RIVER HYDRO TURKEY

Zero-emissions hydro power for Turkey

The Cakirlar Run-of-River Hydro Power Project with a total capacity of 17 MW generates approximately 60 GWh of renewable energy per year. By generating clean hydroelectric power it prevents 36,796 tonnes of greenhouse gas emissions per year. The project owner has set up an interactive theater programme that has created awareness amongst 5,000 children in 33 educational institutions on lifesaving actions during earthquakes and floods.

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SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD

All Photos: Gama Enerji

Better roads and infrastructure, and funding for schools are some of the initiatives providing sustainable benefits in the region.

Due to a rising energy demand, increasing oil and gas imports, and an energy mix largely relying on fossil fuels, Turkey's emissions have more than doubled since 1990. Now the country has embarked on a new energy strategy that prioritises the local production of energy from renewable sources. The Cakirlar Run-of-River Hydro Project is one of the projects that contributes to a more secure and low carbon energy mix for Turkey.

The Cakirlar Run-of-River Hydro Project is located in the Artvin province in northeastern Turkey close to the Black Sea. The project combines two small scale run-of-river turbines that utilise the power of the river with no significant environmental or social impacts. In addition to the emission reduction benefits, the project contributes to the local economy and has created jobs for residents. In 2014, the project owner Gama Enerji started a programme that prepares children through interactive theater plays on lifesaving actions during earthquakes and floods.

4 QUALITY EDUCATION

5,000

Students received natural disaster training

7 AFFORDABLE AND CLEAN ENERGY

59,928

Clean renewable energy generated per year (GWh)

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

ROADS

built and improved by the project, improving infrastructure and services in the area

13 CLIMATE ACTION

36,796

GHG emissions reduced in relevant year (tCO_2e)

PROJECT HIGHLIGHTS

Gold Standard

For more information on the UN Sustainable Development Goals please visit: http://www.un.org/sustainabledevelopment/sustainable-development-goals/