



Small-scale hydropower plants, Kenya

Essential facts and figures

Project activity	Building 10 run-of-river hydroelectric power plants to provide 40 tea processing factories in several regions of Kenya with reliable power supply.
Project site	Kenya
Project owner	Kenya Tea Development Association
Start date of operation	2018
Project duration	2018 until 2024
Quantity of emission reductions (in tonnes of CO₂)	113'000 certificates with an option for a further 50'000 certificates (CCF share of around 20%)

Project description

In several regions of Kenya, KTDA Power Company Ltd plans to develop, implement and operate 10 projects for the generation of electricity in run-of-river hydroelectric power plants totalling about 30 MW in power.

The power plants facilitate access to electricity resp. increase the reliability of power supply, thereby contributing to improving the productivity of supplied tea processing factories. Electricity that is not used directly by the factories is bought by the state-owned Kenya Power and Lighting Company and fed into the national grid.

Income generated by the sale of certificates is used as an additional collateral to secure external capital needed to fund the power plants. The projects' high investment costs per installed unit of power, which are due to special requirements, constitute a major barrier that has been overcome thanks to the purchase of certificates by the Ci-Dev. Several financial institutions have granted loans amounting to USD 55 million in total, covering two thirds of financing. The residual amount is provided as equity by the tea farmers, organised in cooperatives that own the tea processing factories.

The project is scheduled to reduce 113'000 tonnes of CO₂, which will be purchased by the World Bank's „Carbon Initiative for Development“ (Ci-Dev), in which the Climate Cent Foundation holds a share. The Ci-Dev also holds an option to purchase a further 50'000 CERs.

Project status (as of July 2024)

The project was registered by the UN in September 2012 as n° 6606. 4 run-of-river hydroelectric power plants totalling 16 MW in power are currently in operation, 3 more are under construction. No CERs have yet been issued for the project.

Project owner

The parent company Kenya Tea Development Association (KTDA) is carried by 560'000 tea farmers, who through regional cooperatives also own 66 tea processing factories.

For further information
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