



Small-scale hydropower plants, Kenya

Essential facts and figures

Project activity	Building 4 run-of-river hydroelectric power plants to provide tea processing factories in Kenya with reliable power supply.
Project site	Kenya
Project owner	Kenya Tea Development Association
Start date of operation	2017
Project duration	2017 until 2025
Quantity of emission reductions (in tonnes of CO₂)	29'542 CERs and 115'166 SCF-certificates (CCF share of 21%)

Project description

KTDA Power Company Ltd developed, implemented and operates 4 projects for the generation of electricity in run-of-river hydroelectric power plants totalling about 16 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 was 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, constituted a major barrier that has been overcome thanks to the purchase of certificates by the Ci-Dev.

The World Bank's "Carbon Initiative for Development" (Ci-Dev), in which the Climate Cent Foundation holds a share, is purchasing 29'542 CERs generated by the project over the period 2017 to 2020 and 115'166 certificates issued under the World Bank's "Standardised Crediting Framework" (SCF) for emission reductions generated over the period 2021 to 2025.

Project status (as of July 2026)

The project was registered by the UN in September 2012 as n° 6606 and by Kenya under the SCF in 2025.

4 run-of-river hydroelectric power plants totalling 16 MW in power are in operation.

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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