



RUN OF THE RIVER HYDRO BRAZIL

Supplying remote areas with renewable energy



This project promotes sustainable development in Brazil by providing populations in rural areas with access to clean renewable energy, harnessing the power of endlessly flowing water via three hydro-electricity plants.



The Context

In remote areas of Brazil, electricity supply is scarce if not completely unavailable. Increasing access to electricity in rural areas is a major concern for Brazil. However traditionally, isolated fossil fuel based thermal plants contribute to the emission of carbon dioxide, a harmful greenhouse gas that is devastating for the environment.

The Project

Technically, this project consists of three run-of-river hydroelectric plants with a total installed capacity of 14.5 MW. These plants harness the natural energy of flowing water from either river or flooded plains to generate clean, sustainable electricity that is then supplied to the grid to power surrounding remote communities.

The Benefits

This project contributes to environmental sustainability in the region by replacing fossil fuels with renewable energy, simultaneously decreasing pollution in the area and the social costs related to it. Employment opportunities are provided by the project as local communities are employed for the operation, management and repair of the hydro-plants. Overall, the Brazilian energy sector benefits from the technological and capacity development generated by this project. This stimulates further innovations and encourages modern and more efficient renewable energy solutions throughout Brazil.

This cleaner source of electricity has a significant impact upon environmental sustainability, as it replaces some fossil fuel-based energy generation in Brazil.



219,166
MWh

of clean, renewable energy supplied to the Brazil electricity grid every year



Jobs

created in operation, management and repair of hydro-plants



3
hydro-plants

encourage the development of modern and sustainable infrastructure in Brazil



83,139
tCO₂e

reduced on average annually by providing an alternative energy source to the burning of fossil fuels

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

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