

GUACAMAYA: SMALL-SCALE HYDRO POWER PROGRAM

Costa Rica, Honduras, Nicaragua - Renewable energy

PROGRAM ENVIRONMENT

Situated between the Atlantic and Pacific Oceans, separated by a diversity of river systems, lie the coastal plains and rugged mountain chains of the three Central American countries: Costa Rica, Honduras and Nicaragua. A lack of access and unreliable electricity supply in the countries' remote rural and underdeveloped regions are widely dispersed.



There is no electricity grid coverage prior to the project activity implementation in the project regions.

Renewable energy development is essential to address future energy challenges and to reduce rural poverty.

The small-scale run-of-river installations are with minimum impact on the environment, since minimum ecological flows are respected.

ABOUT THE PROGRAM

The PoA supports the development of new small-scale, national grid connected run-of-river power projects to provide underserved communities with clean electricity. With a maximum of 15 MW installed capacity, the hydro power plants use technology that is most adaptable to local conditions and able to be operated and managed entirely by the communities.

PROGRAM OBJECTIVES

- Implementation of low-impact renewable energy power plants
- Development of a platform for overcoming institutional, financial and structural hurdles for the construction of small hydro projects in host countries
- PoAs generating concrete direct and indirect employment opportunities for both, skilled and unskilled workers

PROJECT TYPE



PROGRAM STANDARD

Gold Standard
Climate Security & Sustainable Development

SDG



PROGRAM FACTS

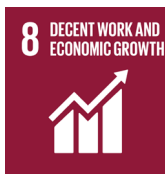
Project type	Run-of-river hydro power
Location	Costa Rica, Honduras, Nicaragua
Carbon standard	CDM, Gold Standard
CDM project ID	8950
GS project ID	3335
Registration date	20/12/2012
Number of included plants	3
Annual CO _{2-eq} reduction	40,000 tons



CONTRIBUTION TO UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS



Emission reduction of sulfur dioxide (SO₂) and nitrogen monoxide (NO). Studies prove a significant correlation between high concentrations of SO₂ or NO and cardiovascular and respiratory diseases.



Creation of 74 full-time jobs for men and women in rural regions.



Electrification of educational center in the community of El Salto, Honduras. The electrification enables the school to conduct computer classes, improving skills in information and communication technology.



Annual reduction of 40,000 tons CO_{2-eq}. The reduction is in line with the countries' ratification of the second commitment period of the Kyoto protocol and NDCs, submitted in accordance with the Paris Agreement.



Generation and distribution of 75,000 MWh clean energy to rural, underdeveloped regions, increasing the total share of renewable energy within the national energy mix and secures local energy supply.



Transfer of revenue share and support of environmentally sound technology development, since Carbonbay, as project partner, is responsible for the distribution of the generated carbon credits.



CONTACT

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