

Saldanha Small Hydroelectric Project

Small scale renewable energy generation and Amazon forest conservation

ECO SECURITIES

Project Type

Clean Development Mechanism

Estimated Annual Emission Reductions

25,000 tCO₂e

Available Vintages

2011-2012 | 2013-2017

Sectoral Scope

Renewable Energy

Registration Number

1526



Brazil





CONTEXT / HISTORICAL SUMMARY

The project validation, performed by DNV GL, started on 2007. The registration in the UNFCCC website occurred on 2009, with the first verification and issuance of offsets was on 2011.

In total, the project has three successful issuance processes. All offsets until 31/12/2012 are already issued, with remaining offsets properly monitored according to the CDM rules, monitoring plan and applicable CDM methodology. Therefore, it has full capability of performing a new verification as soon as needed.

The project has an estimated offset yield of around 25000 tCO₂e per year. The fixed crediting period will expire on 15/03/2019.

More details and official documents:
<http://cdm.unfccc.int/Projects/DB/DNV-CUK1200486228.81/view>.



THE PROJECT

The Project is a run-of-river Small Hydroelectric Plant (SHP). The SHP Saldanha is located in the Saldanha River, municipality of Alta Floresta d'Oeste, Rondônia state, northern region of Brazil. The plant has two turbo-generators sets of 2.5 MW each, totalling 5 MW of installed capacity. This type of project results in emission reductions through displacing grid supplied electricity, which has associated thermoelectric energy (based on fossil fuels).

The area where the SHP is built is at an intersection between the Amazonian and the Cerrado biomes, the two main biomes from Brazil, most impacted by anthropic activities. According to the Brazilian Ministry of the Environment, the state has a forest remnant below the 80% minimum required by law. Rondônia is historically one of the states with highest Amazon deforestation rates. According to INPE, since 2004 around 20'000 km² of its vegetal cover has been removed, almost 14% of the total Amazon deforestation for the period. The land where the SHP is located has around 70 ha. Most of this land has the vegetal coverage intact and/or recovered.



BENEFITS

The project contributes to the biome preservation in its surroundings by not allowing deforestation to advance. The project also contributes to the awareness of the residents from its surroundings by providing free visits and lectures.

Since 2010, Hidroluz has developed an awareness and environmental education program with schools in the region. This program involves lectures given at the school itself and a full day visit at the SHP, where dynamics, lectures and social gatherings are applied. These activities aim not only to teach concepts of environmental education and operation of a hydroelectric plant, but also to integrate students between the ages of 14 and 17 to the surrounding environment. Teachers also participate in the activities, and may act later as multipliers of this information. Approximately 800 students per year are have been directly involved in this initiative.

HIDROLUZ CENTRAIS ELÉTRICAS

Hidroluz Centrais Elétricas Ltda - PCH Saldanha is located on the Saldanha River in the municipality of Alta Floresta d'Oeste. The company is the CDM Project Developer, the responsible for the entire data and information management and monitoring. It is a company built specifically to explore the hydropower potential of the Saldanha River and is an expert in operating a SHP.

ECOSECURITIES

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