



**UNFCCC Clean Development Mechanism Monitoring Report**

***Braço Norte III Small Hydro Plant***

**CDM registration number 0667**

**Monitoring period 01/10/2007 – 30/04/2008**

**Document ID: CDM0667-M3**

**Date: 09 May 2008**

## Project background

“Braço Norte III Small Hydro Plant” has been registered as CDM project by the UNFCCC on 25 November 2006 under reference number 0667.

Further background on this project can be found in the PDD and associated documents, which are available on the UNFCCC website:

<http://cdm.unfccc.int/Projects/DE/SGS-UKL1158861297.48/view.html>

Parties involved are Brazil (Host Country) and Netherlands (other Parties). The Project Participants are Guarantã Energética Ltda., C-Trade Comercializadora de Carbono Ltda, Lumina Engenharia e Consultoria Ltda and EcoSecurities Capital Ltd.

## Monitoring background

Basis for the calculation of emission reductions is the monitoring plan in the Project Design Document (PDD). The calculation of emission reduction in the PDD applied methodology AMS.I.D (version 8 of 03/03/2006).

There are no remaining open issues related to monitoring after completion of project validation and the last verification.

The net electricity generation is metered continuously and the readings are registered at the project plant site every hour. Once a month, the total energy is consolidated and cross checked with the readings from the substation meter, which is used for the billing system. Copies of sales receipt are available at the project plant. All meters used are calibrated according to national regulatory specifications.

## Monitoring results

### Emission reduction

The calculated emission reductions amount to **30 179** ton CO<sub>2</sub>eq.

### Monitoring period covered

This is the third monitoring report of this project. It covers the period 01/10/2007 to 30/04/2008.

### Presentation of monitoring results – spreadsheet

All monitoring data have been included in an Excel workbook. The workbook includes:

- 1. Reference data.** A list of the default values and/or values defined in the PDD which are used to calculate emission reductions.
- 2. Calculations.** Shows the calculation of emission reductions on the basis of raw data.

- 3. Raw data.** Contains the raw monitoring data submitted by the project developer.

#### **Calculation methodology**

The calculation methodology of emission reductions for this project is summarized below. Please note that data and calculations are cross-checked in order to assure quality.

Calculation took place in the following steps for the data generated:

- 1.** Net electricity generated are recorded monthly (in MWh) ;
- 2.** Result from 1. is multiplied by the grid emission factor stated ex-ante in the PDD (0.5364 tCO<sub>2</sub>/Mwh) to obtain baseline emissions for electricity generation in tCO<sub>2</sub> per month.
- 3.** No project emissions or leakage are applicable.

Once 2. has been determined, total net emission reductions for the specified time frame are determined and included in the monitoring report.

The electricity imported from other hydro plants were discounted from the total of exported energy when comparing the invoice documents.



**Braço Norte III Small Hydro Plant**

**Monitored Data**

<i>Data</i>	<i>Units</i>	Oct/2007	Nov/2007	Dec/2007	Jan/2008	Feb/2008	Mar/2008	Apr/2008
Net Electricity generated	MWh	4.797	5.202	8.987	9.240	8.142	10.054	9.841
Emission Reduction	ER	2.573	2.791	4.820	4.957	4.367	5.393	5.279

**Summary of each year**

<i>Data</i>	<i>Units</i>	2007	2008
Net electricity	MWh	18.986	37.277
Grid emission factor	tCO <sub>2</sub> e/MWh	0,5364	0,5364
Emission reduction	tCO <sub>2</sub> e	10.184	19.995