



## D11 - A pre-feasibility study for three potential CDM projects

### 1. Introduction

This is the eleventh Deliverable for the project: CDM for Sustainable Africa- Capacity Building for Clean Development Mechanism in Sub-Saharan African Countries, SYNERGY project Contract No. 7.623/D/02-001.

This deliverable belongs to the Phase III of the project, been part that of the Work Package 6 – Identification of new potential CDM projects. The work was coordinated by Instituto Tecnológico de Canarias S.A. (ITC)<sup>1</sup>. It consists of the main outcome of Task 15: Pre-feasibility study of three selected projects.

### 2. Background

The selection of the projects to undergo the pre-feasibility analysis was determined during the Project Technical Meeting that took place at Maputo – Mozambique.

During the meeting was discussed within the partners that the most representative cases, in terms on replicable potential on others countries, geographical representation and available field information were to be chosen.

From the list of identified projects, some were highlighted from where must be made a filed data survey to finalise the accomplishment of the field data collecting effort, the final list made was:

#### Niger (ARC)

##### 3.1.3 Crop Residues Carbonization for Charcoal Briquettes Production

#### South Africa (CSIR) – In progress

##### 3.2.1 Durban landfill gas to electricity

##### 3.2.2 West Coast Fossil Park

#### Zambia (CEEEZ):

##### 3.3.1 Cogeneration in Sugar Cane Mill

##### 3.3.2 Replacement of Diesel generators by Hydropower with Grid Extension

##### 3.3.4 Use Of Improved Efficiency Kilns at Copperbelt Forestry

##### 3.3.5 Biomethanation with capturing of methane to produce electricity

##### 3.3.6 Biodiesel Production from Jatropha

#### Botswana (EECG):

##### 3.4.1 Methane recovery and substitution of fossil fuels by biogas from abattoir waste

#### Mozambique (CEISA)

##### 3.5.1 Cogeneration in sugar cane Mills

##### 3.5.3 Improve Charcoal production efficiency

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### 3.5.4 Improved Stoves - Mozambique

From this list, the three main projects selected were:

- 3.3.2 Replacement of Diesel generators by Hydropower with Grid Extension (Zambia);
- 3.4.1 Methane recovery and substitution of fossil fuels by biogas from abattoir waste (Botswana); and
- 3.5.1 Cogeneration in sugar cane Mills (Mozambique)

The selection criteria was the above cited, plus the issues discussed in the Deliverable D10 - A list of new potential CDM projects, as many of the so called on-going CDM projects are actually missing on resources to achieve a marketable position in the global framework of the CDM business, from where the selected projects were chosen to be a basis for case studies and future project developments.

## 3. Results

The pre feasibility studies carried out for this work package were developed and can be found in the amendments 1, 2, 3 and 4.

The work developed tried to evaluate not only the feasibility of the project itself under the present conditions but also the developed a sensitive analysis on the main issues that were involved.