

## Feasibility Study for an Advanced Waste Treatment System for Rustenburg Local Municipality, South Africa

### Project Description

Rustenburg Local Municipality (RLM) is located in the North-West Province and is one of the wealthiest and fastest growing municipalities in South Africa. It will host the FiFa World Championship 2010. Considering the latest census and population growth range, nowadays RLM has about 460,000 inhabitants and will nearly double this number by 2015. The main development and income generating areas are mining, agriculture and tourism.

The main focus of the project is to investigate the feasibility of innovative pre-treatment options (i.e. mechanical biological treatment, waste to energy) in order to optimize recycling, reduce the volume and emission potential of the waste to be disposed, and reduce the overall emission of green house gases. The possibilities to generate additional funding via Clean Development Mechanism (CDM) will be assessed and CDM documents will be prepared for the preferred treatment solution.

### Results

The feasibility of different options for an Advanced Integrated Solid Waste Management System has been investigated. Modern and innovative waste treatment technologies have been introduced in Rustenburg as a model for other South African municipalities.

### Our Services

- Discussion of technical options and variants for solid waste treatment
- Screening of options for public and private operation
- Assessment of potential CDM projects for SWM measures
- Financial analysis for investment and operation costs of the overall SWM system
- Assessment of environmental and socio-economic aspects
- Preparation of a work program for project implementation.

### Contact

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**Sector:**

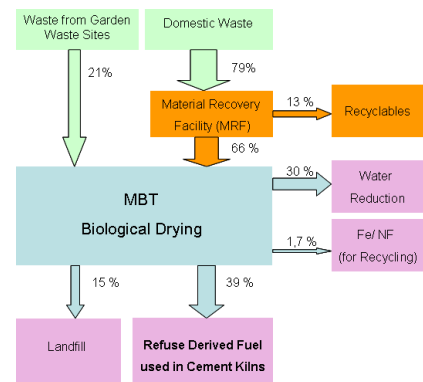
**Solid Waste Management**

**Countries:**

South Africa

**Location:**

Rustenburg Local Municipality (RLM)



**Client:**

Rustenburg Municipality

**Financing:**

KfW

**Duration:**

2008 – 2010