

## BRAZIL: SALVADOR DA BAHIA LANDFILL GAS PROJECT

Kyoto Mechanism:	Clean Development Mechanism
Project Category (UNFCCC):	Waste Management
Location:	Estado de Bahia, Munidipio de Salvador
Emission Reductions purchased:	1.500.000 t CO <sub>2e</sub>

The Salvador-da-Bahia Landfill Gas Project will expand the existing landfill gas capture system. The current landfill concession foresees a **collection efficiency of 19% to 24%** over the lifetime of the landfill.



In the proposed project additional equipment for landfill gas **collection and flaring** will be installed. The capacity of the collection system will be increased from 6.250 m<sup>3</sup>/h in 2000 to 46.250 m<sup>3</sup>/h in 2020. The project will herewith improve the **collection efficiency to 50%** and is expected to reduce landfill gas emissions (approx. 45% to 60% methane).

In the period until 2012, **5.3 million tons of CO<sub>2e</sub>** will be generated by avoiding methane emissions. As a side effect the typical odour of landfills will be reduced significantly. A impermeable cover will be installed and therefore the quantity of rain water getting into the landfill will be smaller, resulting a fewer quantity of landfill leachate generated.

Furthermore, the project sponsor will allocate 5% of the income from the sale of the CERs that would benefit the local community, environment and economy. One of this projects includes the recuperation of degraded area with original vegetation of the region.

The required documents for this CDM project were provided by an Austrian Consultant.

The Project was registered by the Executive Board of the UNFCCC on 15 August, 2005 (<http://cdm.unfccc.int/Projects/DB/DNV-CUK1117823353.4/view.html>).