



Manaus Landfill Gas Project



PROJECT STANDARD:



PROJECT TYPE: Flaring of landfill gas

LOCATION: Manaus city, Amazonas state, Brazil

PROJECT STARTUP: 08 Jul 2011

START DATE OF PROJECT ACTIVITY: 08 Jul 2011

TOTAL EMISSION REDUCTIONS: 380,000 tCO₂e/year

SUSTAINABLE DEVELOPMENT

This project contributes to the following Sustainable Development Goals



THE PROJECT

The Project captures, flares and generates electricity through the use of landfill gas (LFG) produced in anaerobic conditions into the landfill called “Manaus Landfill Gas Project” located in Manaus city, Amazonas state, Brazil. The efficient capture, collection and flaring systems to burn CH₄ (a greenhouse gas) reduces odours and adverse environmental impacts into landfill and surrounding area. The installed capacity of the Project is 1.00 MW.



TECHNOLOGY

Prior to the implementation of the Project, the LFG was released to atmosphere through the LFG passive capture system. With the implementation of the Project, it was constructed an efficient capture, collection and flaring system to burn CH₄ (a greenhouse gas) in open flare and to generate electricity through group generators, using part of the electricity for self-consumption and the other part is dispatched to the grid. The flare is kept in operation due to LFG excess, periods when electricity will be not produced or other operational considerations.

SOCIAL COMMITMENT TO THE COMUNNITY

The project also allows integration with the local community, giving lectures and courses that strengthen the project’s contribution to community organization



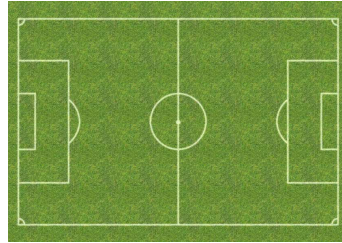
FACTS AND FIGURES

Currently, the Manaus Landfill Gas Project reduces an average of 380,000 tCO₂e/year, which is equivalent to:



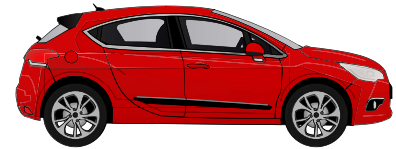
2,660,000

Trees planted
per year



6,000

Football fields planted
per year



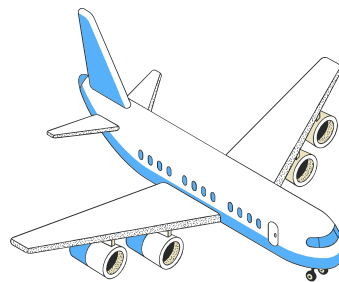
74,000

Cars removed from the streets
per year



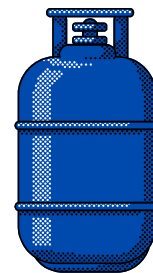
42

Rock in Rio (Rio de Janeiro)
editions per year



190

Flights (roundtrip) per year
from São Paulo to New York



780,000

Cooking gas cylinder (13 kg)
per year

There is electricity generation for self consumption, avoiding consumption of electricity from the Brazilian National Grid.



The surplus of LFG is burned into the
enclosed flare

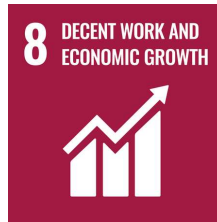
SUSTAINABLE DEVELOPMENT GOALS

While focusing on reducing greenhouse gas emissions, this project also generate multiple co-benefits as support of the United Nations Sustainable Development Goals



GENDER QUALITY

The company has gender equality policies with women occupying leadership positions



DECENT WORK AND ECONOMIC GROWTH

Promotion of sustained, inclusive and sustainable economic growth, full and productive employment, and decent work for all



AFFORDABLE AND CLEAN ENERGY

Renewable energy generation



CLIMATE ACTION

Greenhouse gas emission reductions

INFORMATION

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