

## Pumping and Burning Biogas

Biogas combustion plant in landfill

**Dimasa Grupo has created a new specific equipment for pumping and burning biogas.** Our system captures and analyzes the cumulative biogas in the landfill, before and after burning to ensure proper transformation of methane to CO<sub>2</sub>.



Biogas Combustion Plant, interior view



Biogas Combustion Plant, Exterior view

### Why burn Biogas?

- **Economic benefits** by the sale of carbon credits.
- Adaptation and compliance with **safety norms**.
- Our system consists of **mobile units for easy transport and assembly**.
- Improved **stability in the Natural system of landfill** compaction.
- **Quick installation** and commissioning.

**Our team ensure a total conversion of methane to CO<sub>2</sub>, for achieving a perfect combustion**



Easy installation and commissioning



Biogas Analyzers and Table General



Biogas collection system



Mobile modules

The combustion chamber thermally insulated ensures the total combustion without cold spots at the bottom and prevents radiation in adjacent equipment.

The kit contains a **biogas analyzers** that provide data before and after burning by know at all times the **optimal conditions for proceeding to combustion**.

We install a **Safety ancillaries two extractor fans**: the first comes into operation with temperature values, and the second is driven by a methane gas detector.

The equipment is located within a **thermally and acoustically insulated** container.

### Kyoto Protocol

The Kyoto Protocol is an international agreement that aims to reduce emissions of greenhouse gases provocateurs. These gases are methane (CH<sub>4</sub>) and carbon dioxide (CO<sub>2</sub>).

By burning the methane content of biogas to carbon dioxide and water is reduced. While CO<sub>2</sub> is another major greenhouse gases, warming potential of this is 21 times less than that of methane.