



WASTE TO ENERGY PLANT

STRATEGIES
Sustainability

CHALLENGE

Renewable energy and responsible consumption

DESCRIPTION

Cartagena produces about 400,000 tons of waste per year. On average, each citizen generates 1.15 kilograms of waste per day. More than 60% of solid waste is disposed of in open landfills without any protection to the environment or the public. Large volumes of waste are reaching rivers, water channels, and ultimately the ocean, directly affecting communities and wildlife.

This project seeks to establish an MSW (municipal solid waste) energy plant, using solid waste from Cartagena and surrounding cities.

Instead of being burned, the waste is gasified, and the produced gases are refined, once cooled and cleaned, the gas can be used to generate electricity through special generators

coupled to turbines. Cartagena currently has a landfill that represents a major threat to citizens and the environment. This project will allow to empty and clean the area.

KEY PERFORMANCE INDICATORS

- ▷ Energy intensity moves to 90%
- ▷ 50M dollars in revenue per year for the city
- ▷ No landfills





PROJECT LEADER

General Secretary

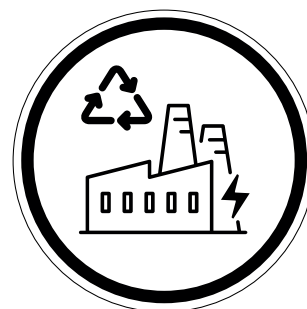
CLIMATE EMERGENCY



BENCHMARK PROJECT (FOR REFERENCE)

Bellwether Recuperative Gasification Plant, Anxin, China. This plant can process 2,500 tons of municipal solid waste (MSW) per month.

<https://bwrgas.wixsite.com/bellwether/projects>



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SUSTAINABLE DEVELOPMENT GOAL IMPACTED

7 AFFORDABLE AND
CLEAN ENERGY



Ensure access to affordable, reliable, sustainable and modern energy

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



Build resilient infrastructure, promote sustainable industrialization, and foster innovation

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



Ensure sustainable consumption and production patterns

NUMBER OF SDG INDICATORS IMPACTED



Alcaldía Distrital de
Cartagena de Indias



For more information contact:
Ana María González Forero
cooperacion@cartagena.gov.co
+57 3022108442