



# LOWERING ORGANIC WASTE METHANE (LOW-METHANE)

supporting ambitious subnational waste methane reduction

JURISDICTION PORTFOLIO | OCTOBER 2024

## Santo Domingo, Dominican Republic

This LOW-Methane Portfolio summarizes Santo Domingo’s overall targets for ambitious methane reductions in the waste sector, priority goals, and current and proposed lines of action. It is subject to further change as this work evolves. This portfolio is intended to serve as a basis for discussions about the next steps, including with partners that are exploring providing additional support to the Santo Domingo team to advance this work.

### TARGETS



To advance **Dominican Republic’s first NDC (2020)**, Santo Domingo is working on better collection, treatment, and disposal of waste, including landfill gas capture and use and waste-derived byproducts for energy purposes and as organic fertilizers. This work also leverages the country’s General Law for the Integrated Management and Co-Processing of Solid Waste, implementing the National Plan for Integrated Waste Management (PLANGIR), and the IDB-supported Program for the Integrated and Sustainable Management of Solid Waste in Great Santo Domingo.

### PRIORITY GOALS & LINES OF ACTION

The Dominican Republic and Great Santo Domingo focus on the following goals, all while prioritising the increase the recovery and valorization of municipal solid waste by promoting social inclusion of informal recyclers and gender equity.

#### Goal 1. Progressive closure of La Duquesa dumpsite

Action 1.1: Plan and implement the progressive closure of La Duquesa dumpsite and assess its co-benefits.

Action 1.2: Development of an additional cell to transition to the new disposal facility, a biogas capture and recovery plant, and the development of recreational areas.

#### Goal 2. Development of a sanitary landfill at the site

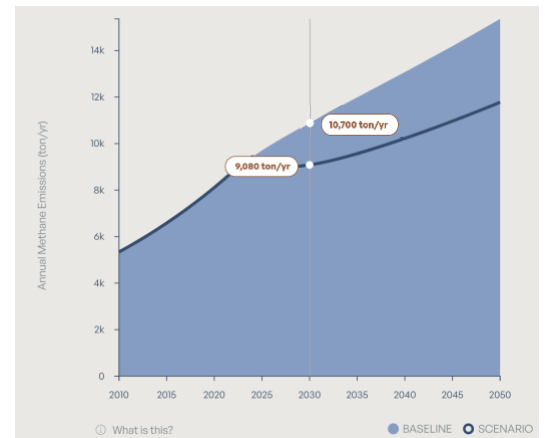
Action 2.1: Design, development, and operation of a sanitary landfill, treatment plants, and transfer stations.

Action 2.2: Development of a projected biogas capture system with an installed capacity of 2.4 MW.

#### Goal 3. Strengthening of Institutions and support to the sustainable management of operators

Action 3.1: Development of planning instruments, studies, and strategies for collection, municipal technicians training, sustainable business models, digital information systems, programs for behavioral change, and citizen awareness.

Action 3.2: Unmanned Aerial Vehicles (UAV) monitoring, a GHG decision support tool, and the study of a composting plant for providing cover material for the operation and closure of La Duquesa and future organic waste diversion.



Projected Impact of Priority Goal 2: reduction of 1,700 t/year by 2030

#### PROJECTED EMISSION IMPACT



#### PROJECTED BENEFITS



#### CURRENT PARTNER IMPLEMENTERS



The goals and lines of action outlined above would deliver **4,900 - 13,900** tonnes of annual methane reduction by 2030 through landfill gas capture and potential organic waste diversion including a composting plant.

The project will improve the livelihoods of **4.6 million inhabitants** in the GSD area through improved waste management practices and reduced environmental impact.

InterAmerican Development Bank (IDB), Netherlands Institute for Space Research (SRON), Global Methane Hub (GMH).

