

WASTEWATER PROJECT OPPORTUNITY

Rafey Wastewater Treatment Plant Biogas Electricity Generation

Santiago, Dominican Republic

CORAASAN

OVERVIEW OF WASTEWATER PROJECT:

Rafey Wastewater Treatment Plant (WWTP), located in Santiago, Dominican Republic, serves approximately 490,000 people and has design and operating influent flow rates of 1.2 cubic meters per second (m^3/sec) and $0.5 \text{ m}^3/\text{sec}$, respectively. The WWTP treats municipal wastewater and employs tertiary treatment.

The proposed project involves capturing the wastewater biogas, treating it (i.e., removing siloxanes and hydrogen sulfide [H_2S]), and generating electricity in a 1-megawatt (MW) engine. The electricity will be used onsite. The project is expected to cost approximately \$8.2 million (US\$) with an expected payback of 15 years.

ESTIMATED ANNUAL EMISSION REDUCTIONS: 1,100 MTCO_2E



EXPECTED BENEFITS

- Emissions reductions: 1,100 MTCO_2E per year
- Learning opportunity for students in the area of renewable energy

TYPES OF COOPERATION SOUGHT

- Technical assistance
- Financial assistance

FOR MORE INFORMATION

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