



Waste to Energy Facility – Barceloneta, Puerto Rico

Project Profile

Background

Synergy Renewables desired to conduct a preliminary design and capital cost estimate for the development of a gasification and electrical generation project utilizing solid waste as feedstock to produce a refuse derived fuel (RDF) for fuel. The facility is designed to accept and process approximately 600 ton per day of solid waste for processing and gasification to produce approximately 13 megawatts of electricity.

DEI Scope of Work and Team Activities

- Preparation of a design basis for the receipt of material and the facilities needed to enclose the material processing and storage activities for the project
- Prepared design calculations for space required for the receipt of incoming solid waste and the storage of RDF
- Oversaw the preparation of the conceptual building design and specifications needed to obtain bids on the building
- Prepared a performance based specification for the solicitation of bids from qualified manufacturers for equipment to process material and produce an RDF
- Prepared bid comparison spreadsheets and evaluated bids from equipment manufacturers. Used this information to make recommendations to Synergy for vendor selection.

Results

Synergy completed the preliminary design and capital cost estimate and finalized a pro-forma for the project. Currently waiting for environmental reviews to be completed to start final design for the facility.

DEI

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