



Anaerobic Digester Facility, Hong Kong

Project Profile

Background

Veolia Environmental is in the process of preparing an offer in response to a tender issued by the Hong Kong Government for the development of an anaerobic digester that accepts upwards to 200 tons per day of food waste for feed to the digesters. A part of the project is to collect, treat and utilize the biogas as fuel for a combined heat and power unit for the production of electricity and hot water for utilization within the AD plant

DEI Scope of Work and Team Activities

- Evaluate the design basis for the project and work with other project team members to develop the anticipated quantities and quality of the biogas produced from the AD process
- Prepare a process flow diagram and mass flow balance for the processing of biogas for fuel to the CHP's
- Prepare process data summary sheets needed for the design and bidding of equipment
- Prepare electrical design and select electrical equipment needed for the biogas portion of the project
- Prepare a conceptual layout for all biogas equipment
- Prepare a capital and operating cost estimate for the biogas and CHP installation and operation
- Assist Veolia in responding to the tender

Results

Completed the design, capital cost estimate and operating cost estimate for inclusion into the response to the tender by Veolia

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