



Case Study

Veolia Environmental/Anaerobic Digester Facility, Hong Kong

Background

Prime contractor Veolia Environmental responded to a tender issued by the Hong Kong government for the development of an anaerobic digester that would accept up to 200 tons per day. A portion of the project encompassed collecting, treating and utilizing the biogas as fuel for a combined heat and power unit to produce electricity and hot water in the AD facility.

DEI Scope of Work

DEI was hired as part of the tender response team to prepare submittals requirements including flow diagrams, biogas equipment recommendations, conceptual layouts for the biogas equipment, and capital and operating cost estimates.

DEI Tasks

DEI was responsible for the following work tasks as part of the tender response process:

- Evaluation of 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
- Preparation of a process flow diagram and mass flow balance for the processing of biogas for fuel to the CHP's
- Preparation of process data summary sheets needed for the design and bidding of equipment
- Preparation of an electrical design and selection of electrical equipment needed for the biogas portion of the project
- Preparation of a conceptual layout for all biogas equipment
- Preparation of a capital and operating cost estimate for the biogas and CHP installation and operation
- Counsel and assistance to Veolia in responding to the tender

Results

- DEI completed all of its assigned work.
- Veolia Environmental utilized DEI's designs and charts, the capital cost estimate and operating cost estimate in the tender response.

DEI

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