



Case Study

Green Valley Landfill Gas Management System

Background

Located in Tseung Kwan O, Hong Kong, Green Valley Landfill is a 10,000 tpd facility accepting direct haul and transfer waste from areas throughout Hong Kong. The quantity of landfill gas being generated at the site had exceeded the capacity of its existing flare. Additional landfill gas processing was needed to keep the site in compliance with local regulations as well as taking advantage of the gas for electrical generation and production of Town Gas.

DEI Scope of Work

DEI was hired to provide project and construction management services for the design, equipment selection and installation of a six (6) million cubic foot per day (cfm) flare and landfill gas management system.

DEI Tasks

DEI was responsible for the following work tasks:

- Performed an evaluation and projection of quantity and quality of landfill gas
- Designed a landfill gas collection and flare system for current and planned cells
- Prepared air permit applications and necessary reports
- Managed the coordination and communication with the Hong Kong Environmental Protection Department regarding the installation of the collection and control equipment
- Prepared capital cost estimates for the installation of equipment, along with bid packages that included equipment, material and construction specifications
- Managed the bidders' process including the bidders' conference, requests for information, and evaluation of the bids
- Managed construction and installation activities including oversight of LFG collection pipe installation, quality control assessments of the flare during the manufacturing process, oversight of flare and skid installation and start up

Results

- The system is in full operation and is in compliance with Hong Kong regulations.

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