



Power

Client
BFI

Location
Harrisburg, NC, USA

Landfill Gas Power Plant

Project Description

- Engineering, Procurement and Construction of a 5 MW landfill gas facility
- Solar Taurus Gas Turbine
- Gas compression and scrubbing equipment
- Switchyard

CH2M HILL worked with Browning-Ferris Gas Services, Inc.(BFGSI) to develop a landfill gas to electric facility at the BFI Charlotte Landfill in Harrisburg, North Carolina. The plant consists of a single Solar T60 gas turbine (4.5mw) and associated equipment located within a small pre-engineered building. The turbine has the capability to start-up on fuel oil, and switch to landfill methane gas delivered to the turbine via an electric motor driven, two-stage, compressor package. The generator is connected to the local utility grid (City of Concord, NC) for energy sales purposes.

Project scope included procurement of the major equipment for the project including the gas turbine, gas compressor package, modular switchgear building, and transformers.