

Project: Progressive Waste Solutions

Background and Needs

Progressive Waste has one of Canada's largest and fastest growing waste and recycling collection fleets of compressed natural gas (CNG) powered vehicles. A recent fleet expansion took place in Brampton, Ontario where 50 CNG refuse haulers were integrated into the company's current fleet. There are plans for 50 more CNG vehicles in the next three to four years. The project commitment was to have the ability to slow-fill 65 vehicles to be operational in the Fall of 2015.

Progressive contracted with E.T. Environmental as the prime contractor for the delivery of this installation. This posed a requirement for a station designer and integrator with particular expertise in compliance to local codes.



Date of completion: 2015

Scope of Work:

Change Energy provided:

- Mechanical design and equipment layouts
- Process design
- Equipment review
- TSSA license and variance applications
- Hazardous Area Classification Zones
- Management of construction and equipment Requests for Information

Results:

Compression

- Two 250HP reciprocating compressors, duplex
- 55 psig suction/up to 4500psig discharge
- Customized to meet Ontario Operating Engineers Regulation

Storage

- 3 x ASME pressure vessel
- 34ft³ water capacity per vessel
- 11,500scf CNG capacity per vessel

Priority Gas Control Panel for simultaneous fuelling:

- Time-fill compound
- Single fast fill stall

Dispensing

- 65 time-fill stalls
- 1 fast-fill metered dispenser