

Project Owner: Heritage Gas

Description of Needs

Heritage Gas is the regional gas utility that serves the province of Nova Scotia (Canada). With current economics not justifying the high cost of pipeline installation, the company sees a growing opportunity to supply compressed natural gas by bulk transport to large industrial customers and entire communities that are not served by NG pipeline infrastructure. In their exploration of this opportunity Heritage Gas identified several locations that warranted further study and possible implementation of a bulk transport solution.

Date of completion: 2013 in service

Scope of Work:

In fulfilling its contract to deliver a turn-key project Change Energy Services provided:

- Comprehensive feasibility study to determine operational viability and cost savings achievable with a system that delivers NG via high pressure tube trailers from a pipeline access point
- Design engineering of turn-key installation as described below
- Equipment selection and procurement
- Project management assistance including all necessary approvals, oversight of equipment installation and commissioning
- Development of operation and maintenance manuals
- Operator training
- Pre-design of future expansion doubling the station's 2013 throughput capacity

Result:

A turn-key CNG supply infrastructure comprised of the following:

(1) Mother Station: (located in industrial park near Halifax Stanfield International Airport):

Compression:

- 450 HP (installed)
- 3 x 1000 scfm with a suction of 700 psig and discharge of 3600 psig (settled pressure)

Storage: Not applicable – facility includes 4 filling bays



(2) Daughter stations (to date):

Customer: Shaw Brick

Decanting: (Joule-Thomson module):

- 450 scfm normal
- Decanting from 2750 psig down to 75 psig

Storage: Not applicable – facility includes 3 drive-through decanting bays

Customer: CKF

Decanting (Joule-Thomson module):

- 600 scfm normal, 1000 scfm max
- Decanting from 2750 psig down to 75 psig

Storage: Not applicable – facility includes 4 back-in decanting bays