

GREENING THE FLEET: COMPRESSED NATURAL GAS (CNG) FUELING INFRASTRUCTURE

Highlights

- Design, construction and commissioning of Canadian Natural Gas (CNG) fueling station.
- Modifications to Bus Storage Facility.
- Modification to Civic Garage.

Project Overview

Based on a comprehensive environmental and economic analysis, it was recommended as a long-term strategy to deploy the use of Compressed Natural Gas fuel in full size Transit buses. There are currently 56 full size buses (40 ft.) in the fleet. As diesel buses are retired after 18 years of operation, they will be replaced with CNG buses. In addition, all new growth buses will be purchased with CNG. The first CNG bus is tentatively scheduled for operation in 2017.

Once the fuel site is constructed, Fleet Services will look at converting additional vehicle types to CNG to leverage the capital cost of the new fueling station, reduce overall fleet operational costs and further reduce greenhouse gas emissions.

Upgrades to the Buses Storage Facility and Civic Garage will include improvements to gas detection monitoring, electrical, heating, and air handling systems.

Budget Requirements and Council Decision Points

This is a multi-year project, with Council to consider budget requirements of \$761,000 in 2015 for design of the new fueling station, and design and safety modification to the Bus Storage Facility and Civic Garage. The \$2,795,000 in 2016 is for construction of a fuel station.

Funding Sources

The City is submitting the CNG fueling station and CNG Buses replacement program to the Province for GreenTRIP grant funding. It is proposed that the project cost of \$3,556,000 will be funded 2/3 by the GreenTRIP grant and 1/3 by the Federal Gas Tax Fund if approved.