

EMPOWERING MUNICIPAL RNG MARKET PARTICIPATION

Municipal Profile – City of Toronto, Ontario

The City of Toronto's Renewable Natural Gas (RNG) facility helps support the goals of the City's *Long-Term Waste Management Strategy* and move towards a circular economy. In 2019, Toronto, in partnership with Enbridge Gas Inc., will begin installing new biogas upgrading equipment at the Dufferin Organics Processing Facility capable of converting raw biogas – produced from processing the City's green bin organic waste – into RNG that can be injected into the natural gas grid.

Dufferin Facility RNG Project

Toronto first began looking at RNG from a solid waste management perspective in 2015. At a time when most biogas installations in Ontario were generating electricity, the City of Toronto recognized they were in a unique position to generate a significant amount of RNG given their population of about 2.8 million and their highly successful green bin program.



Once up and running, it is estimated that the RNG facility will produce approximately 5.3 million cubic meters of RNG annually, enough to fuel 90% of the City's Solid Waste Collection fleet.

On July 20th, 2018, the City of Toronto announced a partnership with Enbridge Gas Distribution to build its first RNG facility. The facility, which will be located at the City's Dufferin Organics Processing Facility, will use technology to clean and convert the biogas produced through anaerobic digestion into RNG and inject it into its natural gas distribution grid. Once in the grid, the RNG can be used to fuel the City's *Solid Waste Collection Fleet*, generate revenue in external markets, or a combination of the two. The Dufferin facility is currently undergoing an expansion to increase its organic processing capacity from 25,000 to 55,000 tonnes. The expansion and the RNG project are expected to be completed in the fall of 2019.



The benefits of RNG

This is the first of four waste-to-RNG production opportunities identified by the City of Toronto. The other three sites include: the Disco Road Organics Processing Facilities, the Keele Valley Landfill, and the Green Lane Landfill. It is estimated that the four sites can produce approximately 65 million cubic metres of RNG annually, the equivalent of about 55 million litres of diesel. This represents a significant revenue opportunity for the City of Toronto and is aligned with its *Transform TO Climate Action Strategy*, which aims to reduce greenhouse gas emissions from a 1990 baseline, by 80% by 2050.