



The Corporation of the City of Cornwall
Regular Meeting of Council
By-law Explanatory Note

Department: Infrastructure and Municipal Works
Division: Environment
Report Number: [Report Number]
Prepared By: Carl Goodwin, Division Manager
Meeting Date: January 27, 2020
Subject: Note to By-law for the funding agreement between the City of Cornwall and Federation of Canadian Municipalities (FCM).

Purpose:

A By-law 2020-026 is required for the funding agreement between The City of Cornwall and Federation of Canadian Municipalities (FCM) for co-digesting municipal organic waste with sewage biosolids.

Background:

The City of Cornwall currently produces biosolids at the Wastewater treatment Plant (WWTP) and deposits organics at the landfill site as part of solid waste collection services.

The co-digestion of sewage biosolids with other forms of organic waste (e.g., source-separated organics) is expected to increase the rate and volume of biogas production at the plant. The study will explore the most economically feasible uses for that biogas. For example, some of it could be upgraded to renewable natural gas (RNG), which has an energy value equal to fossil fuel natural gas. The RNG could be used onsite or it could be injected into a natural gas pipeline.

Greenhouse gas emissions and energy savings should result from three key elements of the project. First, by eliminating the need to transport sludge and organic waste to landfill, Cornwall will reduce its diesel fuel consumption.



Second, improved digester processes will reduce the plant's energy consumption.

Third, the proposed approach will capture greenhouse gases (especially methane) that would otherwise be released by organic matter decomposing in landfill.

The study will also explore the possibility of retrofitting the plant's existing anaerobic digester to increase its efficiency and capacity. This could enable Cornwall's plant to receive sludge and waste from surrounding plants, making it a regional facility.

This project aligns with provincial policies focused on diverting food and other types of organic waste from landfill. Reducing greenhouse gas emissions aligns with the city's official plan. The project also supports Cornwall's broader goal of transforming its water pollution control plant into a net-zero resource recovery facility.



Report Approval Details

Document Title:	Explanatory Note to the Funding Agreement between the City of Cornwall and the Federation of Canadian Municipalities (FCM).docx
Attachments:	
Final Approval Date:	

This report and all of its attachments were approved and signed as outlined below:



Report Approval Details

Document Title:	Note - Funding Agreement between the City of Cornwall and the FCM - 2020-279-Infrastructure and Municipal Works.docx
Attachments:	
Final Approval Date:	Jan 21, 2020

This report and all of its attachments were approved and signed as outlined below:

Carl Goodwin - Jan 21, 2020 - 3:02 PM

Bill de Wit - Jan 21, 2020 - 3:09 PM

Maureen Adams - Jan 21, 2020 - 8:07 PM