

Appendix F Summary: Residual Waste Processing Plan

Purpose:

- In order to continue to meet the Region's Official Plan target of over 90 per cent diversion from landfill, the Region needs to secure stable long-term energy-from-waste (EFW) processing capacity.
- This Residual Waste Processing Plan considers alternative methods of securing long term processing capacity.

Key Findings:

- The Region can secure up to 120,000 tonnes of annual EFW processing capacity from privately owned facilities.
- Projected residual waste tonnages are not expected to reach levels (250-270,000 tonnes/year) required to support expanded Durham York facility operations until the 2035 to 2040 timeframe.
- Expansion approvals may take up to 8-12 years.
- The Region can secure up to 40,000 tonnes of landfill capacity to manage non-recyclable materials not suitable for EFW.

Recommended Actions:

- That the Region issue an RFP in Q4 2020 to secure up to 120,000 tonnes of annual EFW processing capacity from privately owned facilities. This new contracted capacity will serve as an interim bridge until York Region and Durham Region have enough time and residual waste tonnage to implement expansion of the Durham York Energy Centre to 250,000 to 270,000 tonnes per year.
- The recommended contract structure consists of an initial term of approximately 12 years, beginning in September 2023 at the conclusion of current contracts with Covanta Niagara and the initial term of the Emerald EFW contract. The recommended contract end date of Jan 2036 coincides with the end of the first term of the Durham York Energy Centre (DYEC) operating contract.
- Following this initial term, it is recommended that a series of two to three year optional term extensions be provided between January 2036 and January 2046. This will provide the Region with flexibility on the implementation plan and timing for DYEC expansion.
- In addition, staff recommend that an RFP be issued to secure up to 40,000 tonnes of landfill capacity to manage non-recyclable materials that are not suitable for EFW from the end of its existing contract in June 2025 through January 28, 2046 to coincide with the end of the EFW contracts.

Link to Objectives:

- **Objective 2:** Region secures long-term contracts to recover energy from residual materials.