

The Corporation of the Town of Ajax
COUNCIL



Monday October 17, 2016 at 7:00 p.m.
Council Chambers, Town Hall
65 Harwood Avenue South

PRESENTATIONS

*Alternative formats available upon request by contacting:
accessibility@ajax.ca or 905-619-2529 ext. 3347*

Anything in **blue** denotes an attachment/link. By clicking the links on the agenda page, you can jump directly to that section of the agenda. To manoeuvre back to the agenda page use the **Ctrl + Home** keys simultaneously

4. Delegation and Presentations / Public Hearings

- 4.1 **[Ontario Lottery & Gaming \(OLG\) 10th Anniversary Recognition](#)**
~ Rachael Matheson, Senior Communications Officer – Government Relations
- 4.3 **[Anaerobic Digestion Project Update](#)**
~ Mirka Januszkiewicz, Director of Waste Management Services

Ajax Council Celebrates 10 Years of Partnership with OLG



Smart Spending



Audley Road

Investing in Positive Growth



IMPACT
Ajax

A photograph of the Ajax Fire Headquarters, a modern building with large glass windows and brick sections. Three flagpoles with flags stand in front of the building. The foreground is a green lawn with a low stone wall. The sky is clear blue.

Investing in Positive Growth

Ajax Fire
Headquarters

A large crowd of people, many wearing red shirts, are gathered on a racetrack for a community event. In the background, a fire truck is parked on the track, and a white tent is set up on the grass. The sky is overcast, and a city skyline is visible in the distance.

Engaging the Community

Canada Day

Contributing to Shared Goals



An architectural rendering of a modern urban development at dusk. The scene features several tall, multi-story buildings with glass and brick facades. The central focus is a large, open public square with a paved plaza, surrounded by trees and greenery. People are depicted walking and gathering in the square. In the background, a body of water and a distant city skyline are visible. The overall atmosphere is one of a vibrant, future-oriented community space.

Looking to the Future

Pat Bayly Square



OLG

Town of
Ajax
By the Lake

Anaerobic Digestion Study Update

Mirka Januszkiewicz

Craig Bartlett

Regional Municipality of Durham

Ontario, Canada



Ajax Community Council
October 17, 2016

Durham has a successful waste diversion program



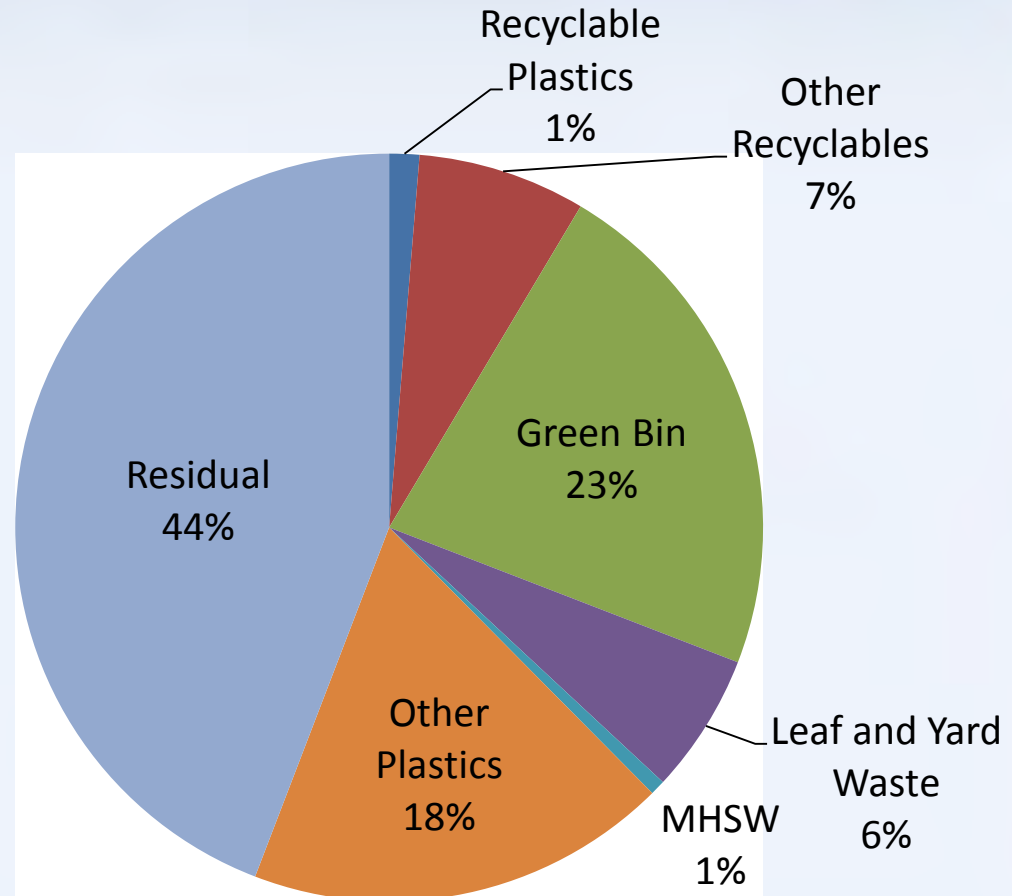
Program	Percentage
Blue Box	20%
Green Bin	12%
Leaf and Yardwaste	12%
Multi-residential recycling	1%
Other diversion programs	7%
Other program adjustments	3%
2015 Diversion Rate	55%

History of Organic Waste Diversion in Durham

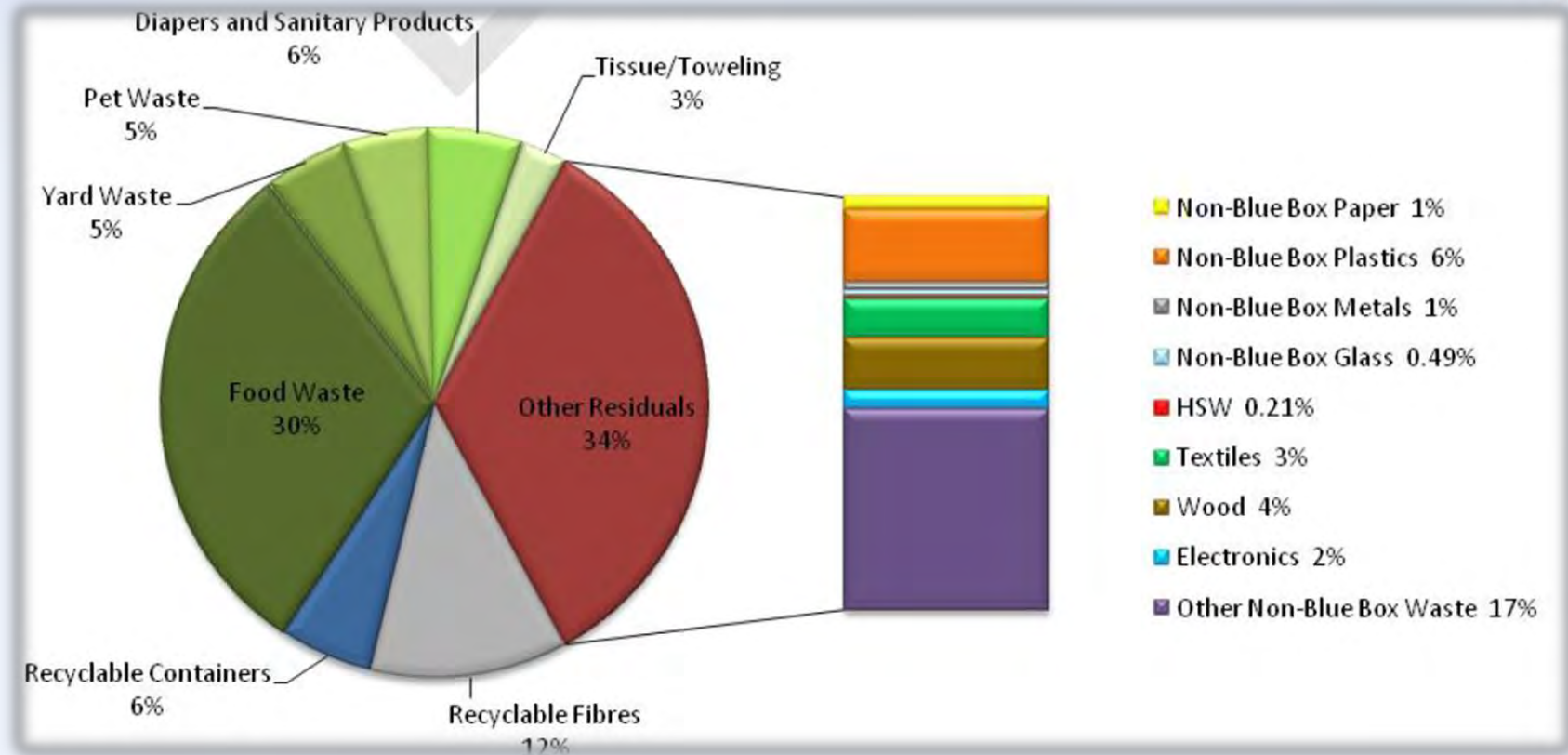
- Green bin program for residential food waste started in 2004 and launched Region-wide in 2006
- All single family homes are provided green bin service for majority of organics generated
- Durham aerobically composts 60,000 tonnes of kitchen organics and leaf and yard waste annually
- Aerobic composting is at capacity
- Cannot process expanded suite of organics (i.e. pet waste, diapers, sanitary waste) or organics with high contaminants (i.e. from multi-residential sector)

What's remains in the waste?

Household
garbage contains
over 50%
divertible material!



Multi-Residential Waste Composition



Multi-residential garbage contains almost 70% divertible material (50% organics)!

Source: extrapolated from "Region of Durham Multi-residential Waste Composition Study, AET, 2013"

Anaerobic Digestion and Pre-sort/transfer Study underway to confirm:

1. New pre-sort technologies are efficient and effective for extracting recyclables and organics from residual waste stream
2. AD can process organics into methane gas, water and digestate
3. Durham generates enough organics to justify its own pre-Sort/AD facility
4. Potential energy partner(s) to maximize the energy output, financial and environmental benefits of AD
5. AD's contribution to Durham's GHG reduction targets and capitalize on Cap and Trade opportunities

Questions to be answered:

1. Reconfirm that AD with Pre-Sort is viable for Durham Region.
2. Which AD technology is best for Durham (dry stackable, dry, wet)?
3. Which waste streams should we treat with AD (multi-residential, single-family, both)?
4. How to phase in treatment of waste streams? (i.e. multi-res first? single family first? or implement all at once?)
5. What type of energy should we generate (raw gas, renewable natural gas, electricity)?
6. Does Durham need an energy partner to maximize the energy output and financial benefits of AD? Who?
7. What is the highest and best use for digestate?

Next Steps

The 2016 AD business plan study will;

1. Complete an options analysis to re-confirm AD with Pre-Sorting is the best management option for Durham
2. Determine a preferred business model for the most effective and efficient source material pre-sorting option, highest diversion potential, highest value AD fuel output, with lowest net cost and budget and tax implications for the Region

Next Steps

Part 1

Fall 2016

1. Complete options analysis
2. Identify preferred technologies
3. Identify preferred outputs (energy type, fertilizers)
4. Develop business model recommendation
5. Identify best type of energy partner based on above evaluations
6. Report to Council

Part 2

2017 (pending Council approval)

1. Negotiate with energy partners
2. Develop RFP and initiate procurement process

Thank-you

Mirka Januszkiewicz

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