

Waste Management Services

Waste and Recycling Collection Service Options Strategic Discussion

Presentation to Committee of the Whole March 11, 2010

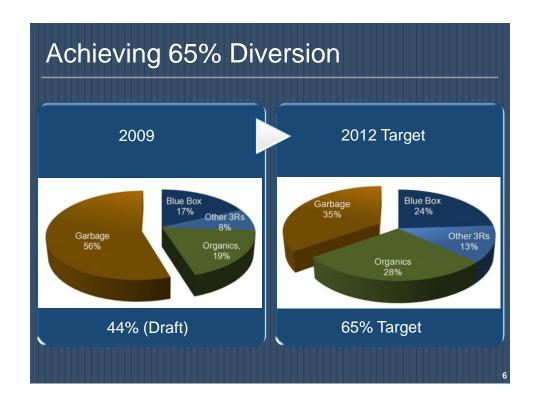
Objectives

- 1. How to achieve 65% Waste Diversion
 - Service level options
 - Customer impacts
- 2. Impact of Waste Diversion Act on Municipalities
 - Extended Producer Responsibility
 - Disposal levies and bans
- 3. Long Term Disposal Planning
 - Shift from municipal to contracted landfill capacity
 - Update on Alternative Technologies



Program	Residential Tonnes	Cost/Tonne
Blue/Grey Box (net)	35,400	\$83
Other 3Rs (net)	15,800	\$70
Green Bin/Yard Waste	43,200	\$150
Garbage	113,500	\$188
Total	207,900	\$142





I 	ng to 50% Diversion	
Program Area	Service Description and Estimated Start Date	% Diversion
Blue/ Grey Box Recycling	 Plastics optical sorting technology – 2010 Add aerosol cans and empty paint cans – 2010 Public Open Space Recycling – 2010 (pilot) Multi-residential recycling Region-wide - Mar 2011 	1.5%
Organics	 Relaunch Green Bin program - full impact in 2010 Expand Green Bin program to West Lincoln and Wainfleet - Mar 2011 	3%
Other Diversion Programs	Municipal Hazardous & Special Waste Electronic Waste Used Tires	1.5%

Achieving 65% Diversion

Municipal Successes

Halton Region

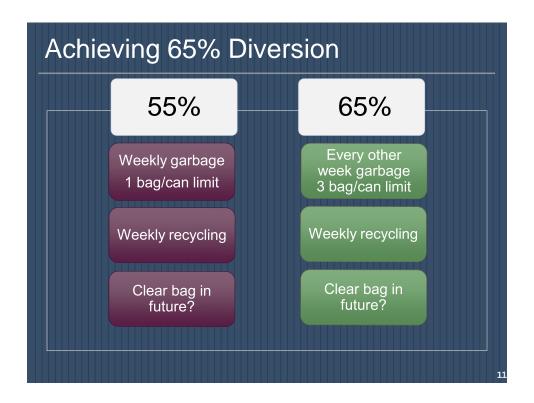
 Every other week garbage collection, weekly Blue Box and Green Bin collection – 61% diversion rate

City of Toronto

- Every other week cart based garbage and recycling, weekly green bin
- Full user pay system
- 59% diversion for curbside serviced homes

Achieving 65% Diversion Municipal Successes Orillia Weekly garbage (1 bag/can limit), recycling and green bin collection – 53% diversion Peel Region Weekly garbage (2 bag/can limit), recycling and green bin collection - 49% diversion







Achieving 65% Diversion Customer Service Options and Impacts ■ Bag limit exemptions for diapers ■ ■ Same side of road collection – local rural roads ■ ■ Free drop off of grass, electronic waste, hazardous waste, used tires at depots ■



Waste Diversion Act

- Under the Act, the Minister of Environment can designate any waste material and require producers to develop a waste diversion plan
- Shifts waste management responsibility from municipalities to producers (brand owners/first importers)

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Waste Diversion Act

Extended Producer Responsibility (EPR)

- Existing producer responsibility programs:
 - Blue Box Residential Packaging & Printed Paper (partial)
 - Municipal Hazardous & Special Waste (partial)
 - Electronic waste (e.g. computers, monitors and televisions)
 - Used tires
- Minister proposing a shift to full Extended Producer Responsibility (EPR) for a wide range of products and packaging

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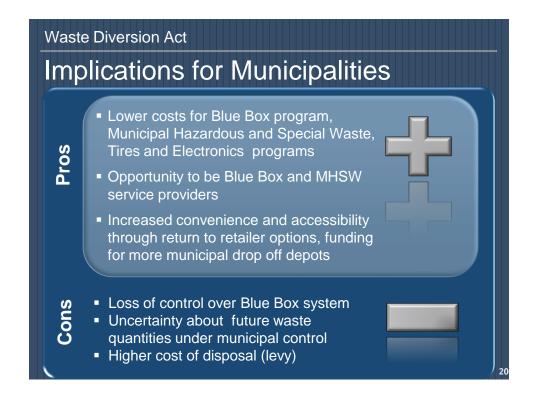
ELINES	
Short Term – 2 yrs	
Геrm –	
Long Term – 5 yrs	

Waste Diversion Act

Blue Box - Packaging & Printed Paper

- Transition from partial to full EPR for residential material
- In 6 to 10 years 100% industry funded and controlled program
- Expanded to industrial, commercial and institutional (IC&I) sectors
- Opportunity for Niagara to become a regional service provider for producers
- Increased funding for higher levels of service

Waste Diversion Act Disposal Bans and Levies To drive diversion Ministry of Environment proposing: Ban of designated materials from disposal Disposal levies (estimated \$10/tonne) to increase cost of disposal relative to diversion Levy revenue to fund diversion related activities



Long Term Disposal Planning

Shift from Regional to Private Sector Capacity

- In 2007, Council approved strategy to shift tonnage to Walker landfill as regional sites close
- Three regional landfills remain open
 - Bridge St. Landfill estimated closure Dec 2010
 - Humberstone has capacity until 2016
 - Niagara Rd 12 Landfill 45 years of capacity
- First tonnes to Walker in March 2011
- Continue to monitor alternative disposal technologies

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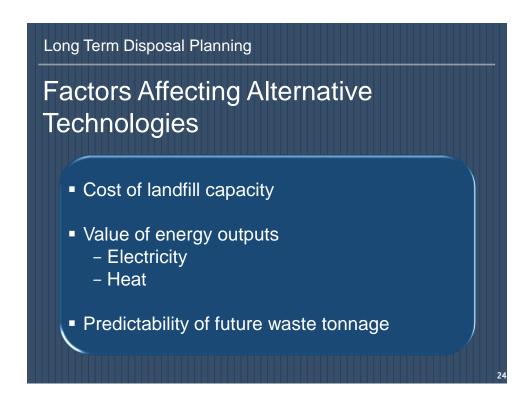
Long Term Disposal Planning

Alternative Disposal Technologies

- Mass Burn
- Refuse Derived Fuel
- Gasification
- Steam Reformation
- Mechanical Biological Treatment

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Long T	Long Term Disposal Planning							
Stat	Status of Alternative Technologies							
Facility Type	Technology	Vendor	Municipality	Tonnes per Year (tpy)				
Full Scale	Gasification	Algonquin Power	Peel Region	120,000 tpy				
Full (Refuse Derived Fuel	Dongara	York Region	100,000 tpy				
Demo	Plasma Gasification	Plasco	Ottawa	15,000 tpy				
De	Steam Reformation	Elementa	Sault St. Marie	750 tpy				
	Mass Burn	Covanta	Durham/ York	140,000 tpy				
peu	Plasma Gasification	Plasco	Ottawa	150,000 tpy				
Planned	Steam Reformation	Elementa	Sault St. Marie	35,000 tpy				
	Mechanical Biological Treatment	RFP Issued	Toronto	100,000 tpy				



Long Term Disposal Planning

Long Term Waste Management Strategic Plan

New long term strategic plan can be developed following:

- Selection of collection service levels
- Amendments to Waste Diversion Act:
 - New EPR program schedule confirmed
 - Municipal service delivery role clarified
- Revisions to municipal waste tonnage projections

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Next Steps

- Decide on collection service levels & award new collection contract (April 2010)
- Position Niagara as a potential regional Blue Box and MHSW service provider
- Continue to monitor alternative disposal technologies
- Report back to Council on process for development of long term strategic plan

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