



Metro Vancouver`s

Integrated Solid Waste and Resource Management Plan

Metro Vancouver

23 Municipalities

2.3 Million Population

2 Landfills

1 WTE Facility



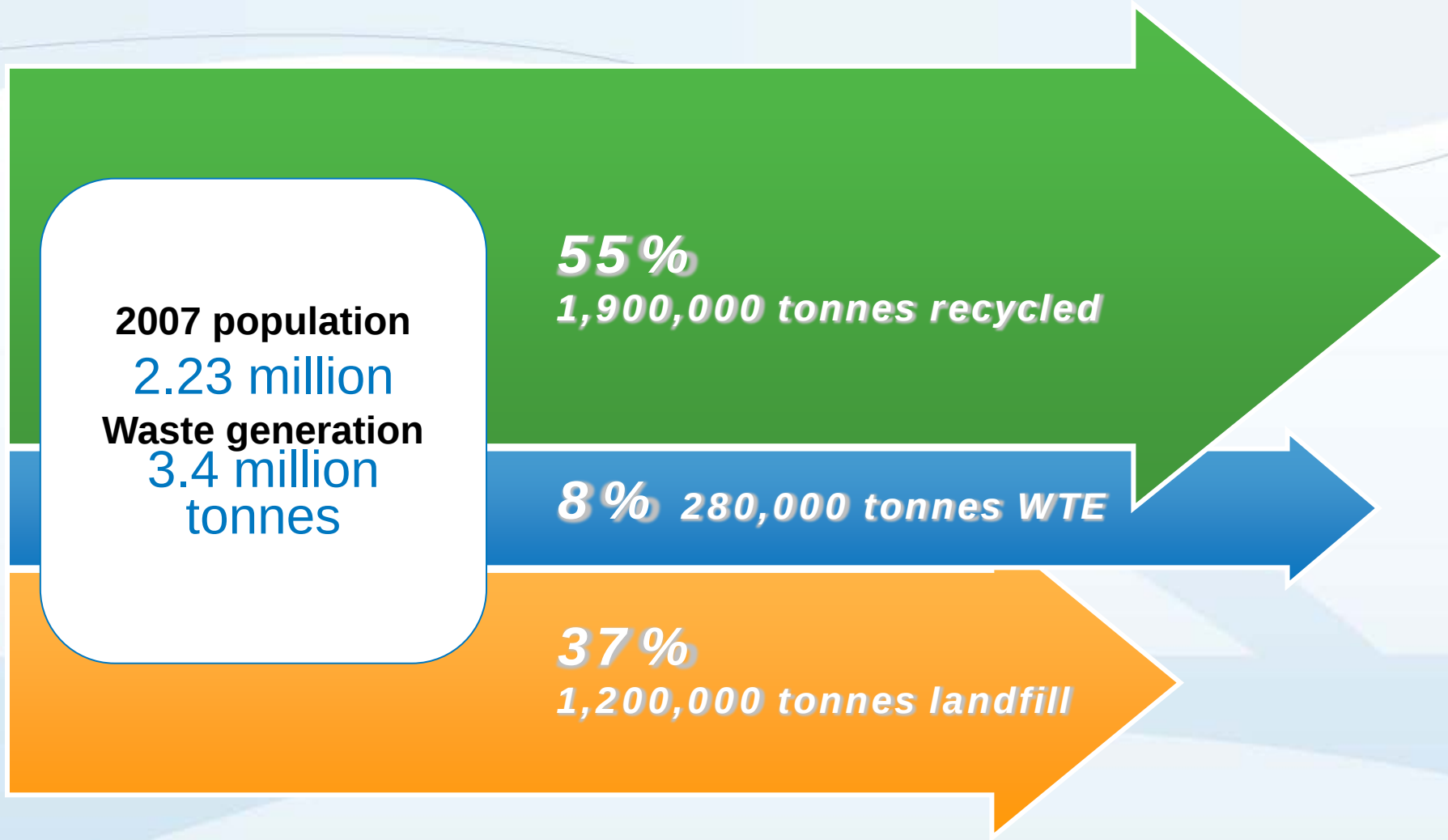
Current Status

2007 population
2.23 million
Waste generation
3.4 million
tonnes

55%
1,900,000 tonnes recycled

8% *280,000 tonnes WTE*

37%
1,200,000 tonnes landfill



Integrated Solid Waste and Resource Management Plan

GOAL 1

Minimize waste generation

GOAL 2

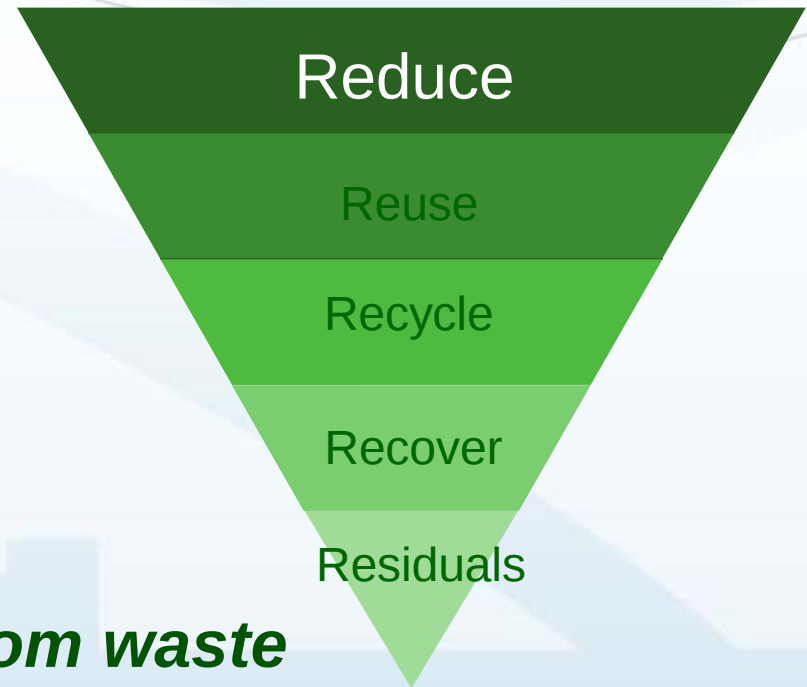
Maximize reuse, recycling, and material recovery

GOAL 3

Recover energy from waste stream after recycling

GOAL 4

Dispose of all remaining waste in landfill after material and energy recovery



Plan Targets

- 10% per capita waste reduction by 2020*
- 70% minimum diversion target by 2015
- Sector diversion targets* based on overall 70%
- 80% diversion target* by 2020

* “aspirational targets”

Goal 1: Minimize Waste Generation

- Change the rules
- Strengthen Extended Producer Responsibility
- Provide Leadership

Change the Rules

- Advocate that senior governments:
 - Prohibit the manufacture and distribution of non-recyclable packaging
 - Move toward prohibiting manufacture and distribution of non-recyclable materials and products

Strengthen EPR

- Accelerate expansion
- Ensure integration with curbside recycling system
- Ensure proper management of returned materials

Lead Nationally & Internationally

- Develop a national zero waste marketing council
 - Encourage waste reduction nationally
- Develop international advocacy among cities and regions to promote product design for waste reduction

Goal 2: Maximize Reuse, Recycling and Material Recovery

- Educate, Social Marketing
- Financial Incentives
- Provide Infrastructure
- Regulate

Multi-Family & ICI

- Mandatory multi-family and ICI recycling
- Advocate for modification of building code to require space for recycling in multi-family and commercial buildings

Focus on Organics

- Targets for implementing organics collection:
 - Single family homes by 2012
 - Multi-family and ICI by 2015
- Ban compostable organics from landfills or waste-to-energy plants, except anaerobic digestion, by 2015



A Minimum of 70% Diversion

	Quantity Currently Disposed (tonnes)	Planned Diversion Program(s)	Planned Diversion Targets (tonnes)
Organic Wastes Food Waste Paper and Paperboard Yard Waste	725,000	Composting, Biofuel, Disposal Bans	395,000
Wood Wastes	240,000	Modify Permit Process, Wood Drop Off at Transfer Stations & Eco-Centres	155,000
Plastic Waste	190,000	Expansion of Plastics Recycling	30,000
E-Waste and Small Appliances	27,500	Extended Producer Responsibility	20,000
TOTAL	1,182,500		600,000

Goal 3: Recover Energy from the Waste Stream After Material Recycling

- Continue using the existing WTE facility in Burnaby
- Increase WTE capacity in the region up to a limit of 500,000 t/year
- Maximize energy recovery through district heat and electricity
- Must meet EU Standard for Recovery: 60% efficiency

Goal 4: Dispose of all Waste in Landfill, After Material Recycling and Energy Recovery

Public Input:

- Strong support for Goals 1 & 2
- Strong opposition to WTE
 - Emissions and health
 - Greenhouse gases
 - Costs
- Support for conversion technologies due to perceived air quality benefits
- Minimal support for landfills

Current Status

- Concluded public consultation: July
- Received Board Approval: July
- Submitted to Minister of Environment for Approval
- If approved: proceed with competitive process

Competitive Process:

- All waste to energy technologies will be considered
- Waste-to-energy is defined as:
“any process that converts waste material to energy and heat”
- Evaluation criteria will include:
 - air emission and health impacts,
 - GHG emissions,
 - Alignment with sustainability principles

2007 population
2.23 million
Waste generation
3.4 million
tonnes

55%
1.9 Mt recycled

8% *0.28 Mt WTE*

37%
1.2 Mt landfill

2015 population
2.55 million
Waste generation
3.9 million
tonnes

70%
2.7 Mt recycled

20% *0.8 Mt WTE*

10% *0.4 Mt landfill*

Thank You

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