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

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

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