Presentation to Joint Regional Meeting – Red Deer, Alberta

Capital Region Integrated Waste Management Plan
April 19, 2013
Presentation to Committee

1. Objective
2. Approach
3. Capital Region Municipality Waste Systems
4. Capital Region Waste Projections
5. Assessment of Existing System
6. Recommended Policies and Programs
7. Next Actions
Objective
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• An Integrated Waste Management Plan that will:
  ▪ Support the diversion of 80% of wastes from landfill disposal
  ▪ Allow municipalities to set their own pace based on their respective priorities
  ▪ Include waste from residential, ICI and C&D sectors
  ▪ Identify opportunities for synergy and collaboration between partners
Approach
Approach
Capital Regional Municipality Waste Systems

- Residential
  - Populations range from 661 to 812k – total 1.2 million
  - 200,000 tonnes disposed
  - 70% in City of Edmonton remainder split 50/50 urban/rural
  - Projected 1.7 population in 35 years
  - Edmonton, Strathcona and St. Albert greatest diversion, but likely high generation rates
  - Overall diversion rate 49%

- Private (IC&I and C&D)
  - Data on quantities not available
  - Lower diversion and much more waste disposed
  - Estimated 1 million tonnes
  - Mostly manages itself
Municipal Systems are Integrated
Capital Region Waste Projections
Capital Region Waste Projections

Alberta Capital Region Waste Disposal Forecast

- Waste Disposal Forecast - Current Rate
- Waste Disposal Forecast - Target Rate
- Residential Waste Disposal
- Non-Residential Waste Disposal

Tonnage vs. Year (2008 to 2032)
Assessment of Existing System
Assessment of Existing System

• Review Member Municipality Strategic Goals
• Analyze Strengths, Weakness, Opportunities and Threats
• Review Best Management Practices
• Conduct Gap Analysis
Current system will not achieve the Provincial targets

Programs should build from several examples of cooperation

More attention in the IC&I and C&D waste

Annual performance measurement program

Low disposal tipping fees and lack of disposal bans are major barriers

Current Provincial stewardship programs do not meet criteria of EPR

ACR does not currently have authority and resources

Regional long range strategies are needed

Organics and fibre are the primary sources of waste diversion

Consistent decision-making process is needed

The existing infrastructure capacity is insufficient

Plastics diversion and management are a major concern

Relationships with adjacent jurisdictions should be fostered

Insufficient legislation to empower municipalities

Use Best Practices

Need a clear targets

Measure waste disposal rates rather than diversion

The IC&I and C&D sector changes to be implemented consistently and equitably

Consistent residential services

Shared municipal program

Regional programming should benefit all member municipalities
# Assessment Criteria

<table>
<thead>
<tr>
<th>ASSESSMENT CRITERION</th>
<th>Weighting</th>
<th>Best Possible</th>
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<tbody>
<tr>
<td><strong>Social Effect Potential</strong></td>
<td>30</td>
<td>300</td>
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<tr>
<td>Potential to improve convenient diversion opportunities to ACR residents and visitors</td>
<td>5</td>
<td>50</td>
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<tr>
<td>Potential to develop or enhance partnerships to achieve positive outcomes</td>
<td>10</td>
<td>100</td>
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<tr>
<td>Potential to be transferrable to all member municipalities</td>
<td>15</td>
<td>150</td>
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<tr>
<td><strong>Environmental Effect Potential</strong></td>
<td>30</td>
<td>150</td>
</tr>
<tr>
<td>Potential to Reduce Solid Waste</td>
<td>15</td>
<td>75</td>
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<tr>
<td>Potential to reduce current GHG emissions</td>
<td>10</td>
<td>50</td>
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<tr>
<td>Potential to Reduce Toxics discharged into the environment</td>
<td>5</td>
<td>25</td>
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<tr>
<td><strong>Economic Effect Potential</strong></td>
<td>30</td>
<td>150</td>
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<tr>
<td>Potential to increase business performance and economic opportunities</td>
<td>10</td>
<td>50</td>
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<td>Potential to be financially sustainable over the long-term</td>
<td>10</td>
<td>50</td>
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<tr>
<td>Potential to receive a Provincial grant funding for start-up</td>
<td>10</td>
<td>50</td>
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<tr>
<td><strong>Total marks</strong></td>
<td>90</td>
<td>600</td>
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Recommended Policies and Programs
Long List of Prioritized List of Programs

Using 6Rs Rank Policies & Programs
Short Listed Regional Strategies

• Regional Strategies
  • Guide Member Municipal Planning
  • Build Consensus and Buy-In of Sectors

• By Priority Sector Waste Reduction Strategies
  • Organics
  • Institutional, Commercial and light Industrial
  • Construction & Demolition
Short Listed Priority Programs

- Implementation
- General Residential Recycling Programs
- Organics
- IC&I
- C&D
- Infrastructure
- Collection
- Policy
Implementation

- Resources
- Performance Measurement
- Decision-Making
- Funding
- Governance
- Plan Amendments
Residential

• Standardize contracts
• Consistency and harmonization (material types, contract template, collection frequency, colours and messaging.)
Focus on Organics

- Harmonize services
- Siting study to secure land for future needs
- Switch to bi-weekly garbage collection in favour of weekly organics collection
IC&I Sector Programs

- Conduct capacity siting study
- Select and implement an IC&I Community Awards system (e.g. BEPP)
- Lobby Province for strong legislation, targets, and product stewardship
- Materials bans
- ICI Waste Diversion Toolkit and Env. Business Champions
C&D Sector Programs

- Expand or add areas to existing landfills
- Contractors’ “Construction Site Diversion Toolkit” through Building Permit System
- Proof of proper diversion and disposal tied to Occupancy Permit
Infrastructure

- Establish a mechanism to periodically review disposal, recycling and organics system capacities
Waste Collection

• Standardize terms and conditions of collection and processing contracts for use in municipal contracts
Provincial Waste Management Policy

- Lobby to strengthen goals and targets at Provincial level
Next Steps
Next Steps

• Prepare Preliminary Program Designs (Short List)
• Assess through triple bottom line process
• Prepare Implementation Schedule
• Present ACR Integrated Waste Management Plan