RECYCLE BC:
FULL PRODUCER RESPONSIBILITY

PREPARED FOR: CONNECTICUT MUNICIPAL WORKING GROUP
NOVEMBER 20, 2020
Agenda

• Context
• Who we are
• Our regulation
• Our performance
• CSSA
• Collection
• Post-collection
HISTORICAL CONTEXT

MATERIALS

LOCAL GOVERNMENT

SORTING AND END MARKETS
WHO WE ARE

Recycle BC is a not-for-profit organization responsible for residential packaging and paper recycling throughout British Columbia.

Recycle BC ensures household materials are collected, sorted and responsibly recycled.

Our program is funded by 1,200 businesses that include retailers, manufacturers and restaurants that supply packaging and paper products to BC residents, shifting costs away from homeowners.
RECYCLE BC MEMBERS

1,186 Members representing:
- Food and consumer goods brand owners and manufacturers
- First importers
- Retailers (grocery, general merchandise, convenience, drug)
- Financial institutions (banks, credit unions, insurance companies)
- Restaurants
- Magazine publishers
- Nurseries & garden centres

Contributed $500 Million since inception

$121 Million in program financing for 2020
REGULATION

Environmental Management Act
• Effective May 2014 – requires producers of packaging and paper products to assume responsibility for end of life management of their products

BC Recycling Regulation
• Outlines producer responsibility for a number of material categories
• Schedule 5 defines these responsibilities for producers of packaging and paper

Recycle BC
• Represents obligated organizations and fulfills their requirements under the Regulation
  • Provides collection services
  • Processes material
  • Markets material to end-markets
• Program Plan outlines how those requirements will be met
SIZE AND SCOPE OF BC

364,764 mi²
5.1m pop.

5,567 mi²
3,565m pop.
PROGRAM PERFORMANCE:

2019 Program Recovery Rate

- 237,582 tonnes reported by stewards
- 207,411 gross tonnes collected
- 185,692 net tonnes collected*
- 40.5 kg net collected per capita
- 78.2% recovery rate*
2019 End of Life Reporting

- Increased tonnes of PPP managed by recycling year-over-year (+4%).
- Increased tonnes of material managed by engineered fuel.
- Decreased the tonnes managed by disposal by 14%.
- More than 90% of collected material was managed by recycling.
### PROGRAM PERFORMANCE: 2019 Material Specific Recovery Rate

<table>
<thead>
<tr>
<th>MATERIAL CATEGORY</th>
<th>RECOVERY RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper</td>
<td>83%</td>
</tr>
<tr>
<td>Plastic</td>
<td>46%</td>
</tr>
<tr>
<td>Rigid Plastic</td>
<td>56%</td>
</tr>
<tr>
<td>Flexible Plastic</td>
<td>22%</td>
</tr>
<tr>
<td>Metal</td>
<td>73%</td>
</tr>
<tr>
<td>Glass</td>
<td>87%</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>-3.0%</td>
</tr>
<tr>
<td>+4.0%</td>
</tr>
<tr>
<td>+2.0%</td>
</tr>
<tr>
<td>+3.0%</td>
</tr>
<tr>
<td>+6.0%</td>
</tr>
<tr>
<td>+9.0%</td>
</tr>
</tbody>
</table>
CANADIAN STEWARDSHIP SERVICES ALLIANCE
<table>
<thead>
<tr>
<th>Program</th>
<th>Launch Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recycle BC</td>
<td>2014</td>
<td>100% financed and operated by businesses</td>
</tr>
<tr>
<td>Multi-Material Stewardship Western</td>
<td>2016</td>
<td>Businesses pay up to 75% of municipal costs</td>
</tr>
<tr>
<td>MMSM Multi-Material Stewardship Manitoba</td>
<td>2010</td>
<td>Businesses pay 80% of municipal costs</td>
</tr>
<tr>
<td>Blue Box Program</td>
<td>2004</td>
<td>Businesses pay 50% of municipal costs</td>
</tr>
<tr>
<td>MHSW (household hazardous or special waste)</td>
<td>2008</td>
<td>100% financed and operated by businesses</td>
</tr>
<tr>
<td>ORangedrop</td>
<td>2017</td>
<td>100% financed and operated by businesses</td>
</tr>
</tbody>
</table>
CSSA GOALS

1. Consistent/harmonized regulatory frameworks for recycling programs

2. Maximizing recovery of post-consumer materials
   - Better environmental performance
   - Producers need access to the materials to attain their sustainability goals

3. 100% compliance with all stewardship obligations in all supported programs
CSSA CAPABILITIES

- Designs, implements and supports EPR programs across Canada
- Largest and most experienced compliance solution provider in North America
- Primary interface to 3000+ program member businesses
- Team members located in Toronto, Vancouver, Ottawa and Halifax
COLLECTION
PARTNERSHIPS

- Local Government and First Nations
- Waste Companies
- Depots
- Transporters
- Receiving Facilities
- Post-Collection Partner
- Producers
COLLECTOR AGREEMENTS

CURBSIDE AND MULTI-FAMILY
- Collect standard list of materials weekly or biweekly
- Deliver material to designated facility
- Per household annual payment rate
- 3% contamination requirement
- Service level failure credits and bonuses

DEPOT
- Collect standard material list – all materials or only materials designated for depots
- Per tonne payment rate
**CURBSIDE COLLECTION RATES**

<table>
<thead>
<tr>
<th>Service Area Density (Households/Hectare)</th>
<th>Incentive Rate ($/HH/Year)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Group 1 - Single Stream collectors using automated carts – 4%</strong></td>
<td></td>
</tr>
<tr>
<td>&gt; 2 HH/Hectare</td>
<td>$33.40</td>
</tr>
<tr>
<td>0.2-2 HH/Hectare</td>
<td>$35.40</td>
</tr>
<tr>
<td>&lt; 0.2 HH/Hectare</td>
<td>$37.40</td>
</tr>
<tr>
<td><strong>Group 2 - Single Stream collectors using other container types – 8%</strong></td>
<td></td>
</tr>
<tr>
<td>&gt; 2 HH/Hectare</td>
<td>$34.50</td>
</tr>
<tr>
<td>0.2-2 HH/Hectare</td>
<td>$36.65</td>
</tr>
<tr>
<td>&lt; 0.2 HH/Hectare</td>
<td>$38.80</td>
</tr>
<tr>
<td><strong>Group 3 - Multi-Stream collectors – 10%</strong></td>
<td></td>
</tr>
<tr>
<td>&gt; 2 HH/Hectare</td>
<td>$38.45</td>
</tr>
<tr>
<td>0.2-2 HH/Hectare</td>
<td>$40.65</td>
</tr>
<tr>
<td>&lt; 0.2 HH/Hectare</td>
<td>$42.80</td>
</tr>
</tbody>
</table>
POST-COLLECTION
OVERVIEW

POST-COLLECTION RESPONSIBILITIES INCLUDE:

- Receiving of material after collection
- Transport of material to material recovery facility
- Sorting material into specific grades or types of materials
- Marketing of materials as commodities to end markets
- One province-wide system allows for economies of scale:
  - Create system to manage consistent materials
  - Investment in advanced sorting technology at select facilities
  - Quantities of material for sale to end markets
HISTORY

- System established for our program launch (2014)
- Partnership with Green by Nature EPR

Network of facilities
- 32 Receiving, Consolidation and Transfer Facilities.
  - 11 Pre-conditioning Facilities
  - 1 Container Recover Facility
- Term completion May 2020
- Important to go back out the market in a competitive tender process
POST-COLLECTION RFP

- Multi-year competitive tender and selection process
- Included market sounding and RFP process
- RFP focused on 5 key outcomes:
  - Investment in recycling infrastructure;
  - System efficiency with minimal redundancy;
  - Prioritization of local end-markets;
  - Clear and transparent business processes; and
  - Ongoing innovation and technology.
- GFL Environmental (GFL) responsible for management of the post-collection contract effective May 2020
HIGHLIGHTS

- Transition to GFL means enhanced environmental outcomes through:
  - $25 million investment in new sorting facilities
  - More paper staying local
  - Plastics continuing to go to Merlin Plastics, a BC end market
- Supports a local circular economy
FACILITY NETWORK

Post-collection facility network:
- 38 post-collection facilities
- 36 Receiving Facilities
- 2 Material Recovery Facilities
**RICHMOND MATERIAL RECOVERY FACILITY**
- Processing: multi-stream recycling
- 2 buildings:
  - Paper sorting
  - Container sorting
- 3 weigh scales
- Paper:
  - Latest sorting technology
  - Ability to sort into multiple grades of paper
- Containers:
  - Latest sorting technology
  - Ability to sort into multiple grades of containers and plastics

**NEW WESTMINSTER MATERIAL RECOVERY FACILITY**
- Processing: single and multi-stream recycling
- 2 weigh scales
- Latest sorting technology
- Ability to sort into multiple grades of paper
- Ability to sort into multiple grades of containers and plastics
1. New technology, facilities and processing capability
2. Better sorting ability
3. Higher quality material bales (commodities)
4. Better ability to market materials in North America and more stringent international markets
5. Reduced reliance on overseas markets
6. Support a local circular economy
Q & A