OVERVIEW OF DRAFT 2016 COMPREHENSIVE MATERIALS MANAGEMENT STRATEGY
The Goal of This Plan

60% diversion from disposal by 2024, including through source reduction, recycling, and new technologies.

- This requires going from current 35% to at least 45% recycling/composting within existing systems, diversion of additional 10% via waste conversion technologies yet to be developed in CT, and a 10% overall reduction in statewide MSW generation.

Past plans emphasized behavior change over technological development – this goal calls for both.

Aligns Solid Waste Planning with Climate, GHG, and Air plans and policy – recognizes sustainable materials management as a key part of meeting the state’s 2050 GHG reduction target.
The Foundation of This Plan

This plan is predicated on extensive research and planning activities, including:

- 2015 Composition studies of MSW and C&D.
- Analysis and projections from Lisa Skumatz (leading national expert on applying economic analysis to questions of waste policy).
- Analysis and recommendations from the Product Stewardship Institute.
- Stakeholder surveys and extensive personal outreach.
- All prior state transformation work, including LPRI report, Governor’s Task Force, 2012 stakeholder roundtables, etc.
What’s Changed 2010-2015?

Source: MSW/DSM

<table>
<thead>
<tr>
<th>Category</th>
<th>2010</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper</td>
<td>25.9%</td>
<td>23.1%</td>
</tr>
<tr>
<td>Plastic</td>
<td>14.7%</td>
<td></td>
</tr>
<tr>
<td>Metal</td>
<td>4.5%</td>
<td>3.5%</td>
</tr>
<tr>
<td>Glass</td>
<td>2.1%</td>
<td>2.5%</td>
</tr>
<tr>
<td>Food Waste</td>
<td>13.5%</td>
<td></td>
</tr>
<tr>
<td>Other Organics</td>
<td></td>
<td>11.1%</td>
</tr>
<tr>
<td>C&amp;D Debris</td>
<td>14.1%</td>
<td></td>
</tr>
<tr>
<td>HHW</td>
<td>0.5%</td>
<td>0.7%</td>
</tr>
<tr>
<td>Electronics</td>
<td>2.1%</td>
<td>0.5%</td>
</tr>
<tr>
<td>Other Wastes</td>
<td>12.5%</td>
<td></td>
</tr>
</tbody>
</table>
2015 Residential vs. Commercial Profile

Source: MSW/DSM
MSW Generation

Source: DEEP
MSW Generation Forecast – 2 Scenarios

Source: Skumatz
C&D Profile

- Wood, 38.1%
- Other, 30.1%
- Shingles, 10.4%
- Gypsum, 6.3%
- Packaging Waste, 6.2%
- Metal, 3.8%
- ABC, 3.2%
- Ceramics, 0.7%
- Plastics, 1.1%

Source: Green Seal
# C&D Destinations

<table>
<thead>
<tr>
<th>Disposal Location by State</th>
<th>Total (Tons)</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>158,593</td>
<td>17.9%</td>
</tr>
<tr>
<td>Ohio</td>
<td>494,633</td>
<td>55.9%</td>
</tr>
<tr>
<td>New York</td>
<td>122,357</td>
<td>13.8%</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>52,985</td>
<td>6.0%</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>44,115</td>
<td>5.0%</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>6,036</td>
<td>0.7%</td>
</tr>
<tr>
<td>Virginia</td>
<td>2,595</td>
<td>0.3%</td>
</tr>
<tr>
<td>Maine</td>
<td>2,824</td>
<td>0.3%</td>
</tr>
<tr>
<td>&quot;Unidentified Location&quot;</td>
<td>19</td>
<td>0.0%</td>
</tr>
<tr>
<td>Total</td>
<td>884,157</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

Source: Green Seal
A Plan that Can Drive Action

- Although additional resources will be required for successful implementation, this draft Plan seeks to maximize the potential of existing regulatory tools and capabilities in furtherance of the goal.
- The Plan is founded on unprecedented depth of empirical evidence.
- The Plan establishes measurable benchmarks, reporting, and accountability for continuous improvement.
- The Plan is clear, concise, and action-oriented.
One Goal, Three Objectives

How will we meet the goal of 60 percent diversion by 2024?

- Connecticut must improve the performance of municipal recycling systems and increase compliance with mandatory recycling provisions.

- Connecticut must ensure the investment and regulatory climate to promote development and improvement of recycling, conversion, and disposal infrastructure.

- Corporations that design, produce, and market products must share responsibility for stewarding those materials in an environmentally sustainable manner.
1. Improve the performance of municipal recycling systems and increase compliance with mandatory recycling provisions.

- **Municipal Standards:** Establish accountability for municipal systems to demonstrate progress toward goals, including through mandated adoption of PAYT for underperforming systems.

- **Increased Enforcement:** DEEP will step up enforcement targeted at high-impact sectors (multi-unit dwellings, franchised businesses, etc.)

- **Increased Education:** DEEP and RecycleCT will launch sustained statewide marketing campaign focused on optimizing curbside systems.

- **Better Reporting from Haulers and Others:** DEEP will tighten up reporting requirements and streamline data systems.
1. Continued: About Municipal Standards…

- From 2016-2018, all municipalities failing to meet the year 2000 target of 25% recycling (over 30 towns including most larger cities) can demonstrate progress by adoption of unit-based pricing, ensuring right curbside bin sizes, enforcing hauler registration / reporting, and other measures.

- Beginning in 2018, all municipalities demonstrate progress towards 45% recycling, including by opting in to a curbside EPR system, if available.

- The draft Plan establishes these performance standards under existing statutory authority, and allows a range of options for compliance, including several that could cut municipal costs.
2. Ensure the investment and regulatory climate to promote development and improvement of recycling, conversion, and disposal infrastructure.

- Draft Plan forecasts current and growing shortfall in processing capacity (particularly disposal, waste conversion, and C&D recycling).
- Calls for the development of 544,571 TPY in new MSW processing capacity through 2024 to counter projected shortfalls.
- Calls for statewide inventory of developable sites.
- Calls for regulatory embrace of conversion technologies (gasification, waste-to-fuel, etc) as preferred solution to shortfall.
- Calls for streamlining DON process and priority permitting.
- Calls for GHG considerations / lifecycle analysis approach to drive tech preferences.
3. Corporations that design, produce, and market products must share responsibility for stewarding those materials in an environmentally sustainable manner.

- Calls for progress on target materials such as tires, batteries, carpet.
- Calls on DEEP to lead transition to an EPR system for paper and packaging after 2018. This will require extensive stakeholder engagement and municipal buy-in (municipal performance standards should help).
- Calls for other, parallel approaches to problematic materials, including bans, bottle bill expansion (immediate focus on getting glass out of the curbside stream).
Timeline: SWMP Rollout

Draft to Public and Legislature 2/16

- Env. Committee option for hearing within 30 days.
- OPM review.
- Draft posted for public review.
- Start public comment period through March 31, 2016.
- 2-3 listening sessions around the state.

Final CMMS/SWMP adopted 4/22/16

- Comments integrated in final version.
- Summary document designed / printed.
Next Steps

- Check update to www.ct.gov/deep/cmms next week.
- Public comment through March 31, 2016.
- Send comments by email to lee.sawyer@ct.gov.