Goals of the Plan (30-20-100.5 CRS)

- Meet the disposal needs of the next 20 years
- Reduce waste volume with goals on recycling, composting
- Responsible facility management
- Educate public on solid waste & materials management
- Ensure adequate funding and resources
- Develop state and local efforts to reduce toxicity of the waste stream

Findings of the Plan

At the State Level:
- The state of Colorado faces an unusual situation in regards to planning and recommendations related to waste diversion.
- Under the Colorado Solid Waste Act, CDPHE has authorities almost exclusively in the realm of disposal at landfills.

At the Local Level:
- A large percentage of municipal governments in Colorado are not involved in waste diversion or waste management.

Recognizing the state’s unique authorities situation, 4 levels of recommendations were developed.

- Level 1 Recommendations - state strategies that can be implemented in the near term, with current authorities.
- Levels 2,3,4 Recommendations - higher level and require additional authority to act on.

Top 5 Stakeholder Comments on the Plan

1. Set stronger resource recovery goals.
2. Commit to providing technical assistance on waste diversion, recycling and sustainable materials management.
3. Quantify funding gaps, identify key funding sources, set goals and increase funding for waste diversion.
4. Measure, evaluate and prioritize actions based on climate change impacts.
5. Expand CDPHE’s mission and authority to waste diversion and to advance sustainable materials management.
Timeline for Level 1 Recommendations

January 2017

1. Adopt Goals

Start Date: February, 2017
Strategy: Formally adopt the waste diversion goals as proposed in the Plan and the regional goals.
Action Steps: Brief the Solid & Hazardous Waste Commission on the Plan and the proposed diversion goals.
Responsible Party: CDPHE Materials Management Unit
Completion Date: May 16, 2017 Solid & Hazardous Waste Commission hearing

House Bill 17-1275

Directed CDPHE and OEDIT to assist in increasing waste diversion in Colorado by:

- Establishing voluntary waste diversion goals by 2020,
- Providing technical assistance, grant writing training, business development and networking assistance to counties, landfills and businesses / recyclable material end users,
- Requiring data collection and reporting by counties and landfills.

HB 17-1275 was postponed indefinitely in early May.
Resume timeline strategy of implementing Level 1 recommendations starting with adopting the waste diversion goals.

1. Developing draft resolution
2. Supporting information document on waste diversion goals

**Proposed Diversion Goals from the Plan**

<table>
<thead>
<tr>
<th>Diversion Goals (recycling and organics combined)</th>
<th>2016</th>
<th>2021</th>
<th>2026</th>
<th>2036</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Range</td>
<td>NA</td>
<td>32%</td>
<td>30%</td>
<td>51%</td>
</tr>
<tr>
<td>Rest of State</td>
<td>NA</td>
<td>10%</td>
<td>13%</td>
<td>15%</td>
</tr>
<tr>
<td>Statewide</td>
<td>23%</td>
<td>28%</td>
<td>29%</td>
<td>45%</td>
</tr>
</tbody>
</table>

1. Conservative goals reflecting no new legislative authorities; includes recycling and organics
2. From CDPHE

Diversion Goals based on:
- Waste composition studies conducted at four landfills in Colorado
- Projection of MSW disposal tonnages
- Current diversion rate
- Regional disposal rates / composition

**Purpose of Establishing Diversion Goals**

- Establish a collective standard of short term and long term measurable benchmarks to improve materials management.
- Increase awareness on Colorado’s below average diversion rate and the opportunity to improve recycling and composting rates statewide.
- Fulfill directive of Colorado Revised Statute, 30-20-100.5(III)
- Provides a mechanism to track and compare with other states and national data

“What gets measured gets managed.”

**Process of Establishing the Diversion Goals**

- 2016 ISWMM Plan research: case studies, cost modeling, stakeholder feedback, waste comp data analysis
- Top recommendation voted by stakeholders to improve waste diversion
- Goals generated in Plan based on data analysis
- Public comments on finalized plan: “Set stronger diversion goals”
Regional Goals

- Establishes realistic goals based on regional variation
- Reflects economic challenge associated with low population density recycling operations.

2015 Regional Data

<table>
<thead>
<tr>
<th></th>
<th>Front Range</th>
<th>Mountain Counties</th>
<th>Statewide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recycling</td>
<td>268,401</td>
<td>54,641</td>
<td>323,042</td>
</tr>
<tr>
<td>Composting</td>
<td>248,843</td>
<td>26,959</td>
<td>276,823</td>
</tr>
<tr>
<td>Disposal</td>
<td>1,690,054</td>
<td>32,101</td>
<td>1,722,155</td>
</tr>
<tr>
<td>Total Annual</td>
<td>2,169,498</td>
<td>94,409</td>
<td>2,263,907</td>
</tr>
<tr>
<td>Diversion Rate</td>
<td>13.0%</td>
<td>7.9%</td>
<td>12.40%</td>
</tr>
</tbody>
</table>

Timeline for Meeting Goals

- 10 Years to meet the national average for waste diversion 35%
- 20 years to match the states with the highest diversion rates proven to be attainable (MN, WA, OR) 45%

August 15, 2017
Commission Hearing
Resolution proposed & adopted

The Commission received over 130 letters of support in favor of adopting the waste diversion goals.
**Improve Data**

*August 2017*

The most common data request is Colorado’s MSW diversion (recycling) rate to compare with the national average diversion/recycling rate generated by US EPA.

EPA’s figures include “municipal solid waste from homes, institutions such as schools and prisons, commercial sources such as restaurants and small businesses, and occasional industrial sources.”

MSW does not include wastes of other types or from other sources, including C&D, sludges, combustion ash, and other industrial process wastes that might also be disposed in municipal solid waste landfills” (US EPA Characterization Methodology).

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**Provide Technical Assistance**

*October 2017*

What materials management / waste diversion topics do you most want technical assistance and guidance on from CDPHE?

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**Level 1 Recommendations Summary**

- Adopt 20 Year Waste Diversion Goals- August 15, 2017
  - Improving Data Collection (underway)
  - Providing Technical Assistance on waste diversion (underway)
- Regional Funding- RREO hub and spoke grants & regional studies
- Expand Access to Recycling- RREO grants (Northeastern CO, SLV)
  - Support Materials Management- Guidance/ tech. assist. 2018