Welcome to National Recycling Coalition

National Zero Waste Conference Webinars

Zero Waste Community Planning

October 22, 2020
Welcome to the Webinar!

Open or Close Panel
Muted or Unmuted
Raise or Lower Hand
Submit a Question

THIS WEBINAR IS BEING RECORDED

Hosting and Technical Support Provided by Bob Hollis, Mobius Intelligent Systems.
NZWVC Webinars

- 8/27 – Diversity, Equity & Inclusion
- 9/10 – Product Policies
- 9/24 – Zero Waste on Campuses & Businesses
- 10/8 – Reduce and Reuse
- 10/22 – A – ReThink and Redesign
- 10/22 – B – Zero Waste Community Planning
- 11/5 – National Legislation & Regulations
- 11/19 – Hard to Recycle Materials
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For more info:

National Recycling Coalition
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Zero Waste Plan for the City of Boston

Kirstie Pecci
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Conservation Law Foundation
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Overview

Boston’s Waste

Three incinerators (including Wheelabrator Saugus Incinerator & Ash Landfill)

Planning Process

Boston’s Zero Waste Plan
Residential Generation in Boston

- Disposal = 189,809 Tons
- Recycling = 50,474 Tons
- Total Generation = 240,283 Tons
- 21% Recycling Rate

Source: Boston Public Works FY 17 Actual Tonnages
Industrial Commercial Institutional Generation

Disposal = 683,891 Tons
Recycling = 231,841 Tons
Total Generation = 915,732 Tons
25% Recycling Rate

Source: Mass DEP Solid Waste Data Update, includes MSW, C&D and Non-MSW disposal
2014 California Commercial Generator Waste Study based on Tons Per Employee Per Day
Total Generation

Disposal = 873,700 Tons
Recycling = 282,315 Tons
Total Generation = 1,156,000 Tons
25% Recycling Rate

Source: Mass DEP Solid Waste Data Update, includes MSW, C&D and Non-MSW disposal
2014 California Commercial Generator Waste Study based on Tons Per Employee Per Day
Boston's Waste Stream

*Based on Waste Characterization Reports from Wheelabrator Saugus and Covanta SEMASS and Haverhill incinerators

- Organics: 33.47%
- Paper: 21.27%
- Plastic: 12.23%
- Other: 12.13%
- Metal: 3.67%
- HHW: 3.87%
- Electronics: 1.07%
- Glass: 2.07%
Boston’s Waste goes to Haverill, Saugus, and Rochester
Saugus

- Ash landfill located adjacent to 3 environmental justice communities in Saugus, Revere and Lynn
- Ash landfill located adjacent to ocean
- Ash landfill is unlined!
Critical Area Surrounding Wheelabrator Ash Landfill
ZWB Planning Process

• Four meetings of Zero Waste Advisory Committee
• Break out sessions – commercial and residential
• Written comments, white papers
• Presentations to community and business groups
• Technical expertise, research, website, support of City staff
Key Elements

- City of Boston
- Community Activists and Institutions
- E.J. and Green Labor Values
- Excellent Experts and Journalism
Final Zero Waste Plan

• 80% by 2035, 90% by 2050
• New contracts
• Reduce, Reuse – waste prevention
• Recycle More
• Composting – residential, commercial, and expand capacity
• Innovation
• Education
• Better data and tracking
Progress to Date

- Textiles RFP
- Composting RFP
- Anaerobic Digestion Info
- Toolkit, outreach, tech support
BUILDING ZERO WASTE COMMUNITIES

KATE BAILEY ★ ECO-CYCLE

NRC ZERO WASTE CONFERENCE ★ OCTOBER 2020
Who is Eco-Cycle?

- One of oldest and largest NGO recyclers in the world
- Located in Boulder, Colorado, USA
- 65 employees, 50,000 tons/year
- Hands-on experience in every aspect of Zero Waste
ZERO WASTE INFRASTRUCTURE

Six facilities to replace landfills

- **RECYCLABLES**: Materials recovery facility (MRF) for traditional recyclables
- **ORGANICS**: Organics recovery facility (ORF) for composting and energy production
- **CONSTRUCTION**: Construction, demolition and deconstruction (CDD) facilities for recycling and reuse of building materials
- **HARD-TO-RECYCLE**: Center for hard-to-recycle materials (CHaRM) for non-traditional recycling
- **REUSE & REPAIR**: Reuse and repair facilities for highest and best use before recycling
- **WHATEVER’S LEFT**: Materials recovery biological treatment (MRBT) facility for “whatever’s left”
PUBLIC-PRIVATE PARTNERSHIP: BOULDER COUNTY MRF
COMMITTED TO CLEAN, HIGH QUALITY MATERIALS
Opened in 2001
24 types of materials
41,000 customers per year
5 million pounds per year
Goal: one new material per year
COMMUNITY ZERO WASTE ROADMAP

Three phases:
1. Access
2. Participation
3. Whatever’s left

**PHASE 1**
Access to Services
YEARS 1-5
- Commit to the Zero Waste path and start measuring your progress
- Universal household recycling with unit-based pricing (PAYT)
- Universal recycling for all businesses and multi-family units (MFUs)
- Universal composting programs for households, MFUs and some businesses
- Product fees and bans
- Public space, school and government initiatives including Zero Waste events
- Incentives for construction, demolition and deconstruction (CDD) recycling
- Community education

**PHASE 2**
Building Participation
YEARS 6-9
- Recycling required for all businesses, homes and MFUs
- Composting required for all businesses, homes and MFUs
- Expand waste reduction and reuse initiatives
- Biweekly trash service for residents
- Landfill and incinerator disposal bans
- Producer responsibility for hard-to-recycle (HTR) materials including electronics, paint, mattresses, carpet, batteries and other misc. products.
- Recovering materials from mixed construction loads
- Community education

**PHASE 3**
Recovering Whatever’s Left
YEARS 10+
- Enforcement of source-separation requirements
- Public policy support for sustainable consumption
- Economic policy changes and full-cost accounting
- Residual waste processing and ban on incineration
- Community education

www.ecocyclesolutionshub.org/how-to-get-there/

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BOULDER, CO: UNIVERSAL ZERO WASTE ORDINANCE

Recycling and composting for all households, apartments and businesses

City-wide diversion jumped 17% in three years: 40% → 57%

Business diversion up from 26% to 58%

Goal: 85% waste diversion from landfill by 2025

59% SINGLE-FAMILY HOUSEHOLDS
44% MULTI-FAMILY HOUSEHOLDS
58% COMMERCIAL

City of Boulder Organics Collection

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EVERYONE HAS A ROLE

COLLECTIONS
EDUCATION
ENGAGEMENT

Government

Businesses

Schools

Events

Individuals
All public schools in Boulder have recycling, composting, waste reduction programs
2,000 presentations/year
COMMUNITY ENGAGEMENT: ECO-LEADERS

1000 Eco-leader volunteers
Trained community ambassadors for Zero Waste
Adopt a business
Zero Waste events
Tabling
Advocate at local, state level
COMMUNITY ENGAGEMENT: CARBON FARMING

Nearly 300 citizen scientists measuring carbon storage in lawns, gardens.
Bridging connection with soil health, climate.

https://ecocycle.org/take-action/community-carbon-farming
CHANGING THE NARRATIVE: FASTEST, EASIEST CLIMATE SOLUTION

SAVES ENERGY

REDUCES LANDFILL EMISSIONS

STORES CARBON IN SOIL

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MISSION-BASED RECYCLERS
Eureka Recycling, Minneapolis, MN

To demonstrate that waste is preventable, not inevitable.

Two largest contracts in state, Minneapolis + Saint Paul

APPROACH: Recycling towards Zero Waste =
- Living wages and paid time off for employees
- City revenue sharing models
- Data transparency
- Composition studies
- Focus on material quality & low residual rates
- Material marketing for highest and best use
- Education
- Technology
RFP IS KEY TO JUST RECOVERY

Give weight or preference to living wage, local and transparent markets (Minnesota model)

Cannot be the lowest bidder

Talk to city council members

Systemic approach
ENVIROMENTALLY ACCEPTABLE PACKAGING is reusable, recyclable, or compostable.

MINNEAPOLIS GREEN TO GO
Building our Zero Waste future and a circular economy

- Community Zero Waste Roadmap
- Best practices and model policies
- Hands-on experience

Kate Bailey, Eco-Cycle
Policy & Research Director
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ecocycle.org
ecocyclesolutionshub.org
• 170,000 residents
• College town (Colorado State University)
• Privatized collection system – open market for all sectors
• City role in waste / recycling: policy, education, infrastructure
• 2013 Road to Zero Waste Plan and goals
Shingles Requirement

• Northern Colorado national leader in hail damage
  • 8000+ roofing permits in FC from 7/6/2019 storm alone

• Class 4 Shingles (most hail resistant) required as of 1/1/2019

• Requires data collection
  • 18k tons in 2019

= Waste Reduction!!
Community Recycling Ordinance

• Adopted in 2016, enforced June 2021

• Requires haulers to provide recycling service to all business and multi-family customers
  • Unless location has a variance from City
  • Recycling is separate charge
  • Minimum 33% of service as recycling
OUR CLIMATE FUTURE

Seeking equitable solutions to achieve energy, zero waste, and climate goals.

City of Fort Collins
Transition to 2030: Our Climate Future

Includes updates to:

- Climate Action Plan
- Energy Policy
- Road to Zero Waste Plan
Our Climate Future Timeline

1. Understanding Our Community
   - Summer 2019 - Spring 2020

2. Strategic Planning
   - Summer 2020 - Fall 2020
   - Checking Draft Big Moves
   - Draft Plan(s)

3. Plan Release and Adoption
   - Winter 2020 - Spring 2021

Here
Guiding Theme: Community

Community priorities

Right thing to do
More effective

Technical solutions

BIPOC – black, indigenous, and people of color
HUG – historically underrepresented groups
**Guiding Theme: Equity**

**Equity** = Process and outcome both

**Process** = ensures opportunities for all to co-create policies, tools and programs

**Outcome** = everyone benefits from a carbon neutral Fort Collins
Key Elements:
• Prioritizing language justice
• Engaging differently
• Showing up differently
• Valuing stories as a kind of data
• Creating community partnerships & co-creating
• Letting go a little of how things are “supposed” to go – equity takes time
Less trash & waste
More people using public transit
clean, open, equal!
Engagement Results

Phase One Goals:

1) Engage more inclusively
2) Listen until we hear repeating themes

- 14 OUTREACH EVENTS
  - 140 RESPONSES
    - COMMUNITY PARTNERS AND PLAN AMBASSADORS

- 12 OUTREACH EVENTS
  - 214 RESPONSES
    - COMMUNITY CONVERSATIONS

- 12 OUTREACH EVENTS
  - 245 RESPONSES
    - POP UP EVENTS

- 2,000 PEOPLE REACHED
  - 9 RESPONSES
    - ONLINE ENGAGEMENT

551 Total Community Member Hours!
Community Priorities

- More reuse, recycling and composting
- Healthy air quality
- More renewable energy
- Reliable supply of high quality water
- Local and regional transit
- Affordable housing
- Job opportunities and healthy economy
- Local and dependable food
- Healthy natural environment
- More equity, diversity, and inclusion
- Be prepared for changes in our climate

“Anything that we use must be able to be renewed or reused”

“Recycling infrastructure”

“Regionally better access throughout (not just on main lines) still need some for people w/ disabilities to get closer”

“More bus stops, longer bus hours, and more frequent bus times”

“We need to decolorize and reprioritize indigenous knowledge”

“…equality among all its residents. There is too many differences between rich and not-so-rich.”
Nine Weeks of Virtual Engagement

- 26 workshops with 297 Participants
- Over 300 online survey respondents

<table>
<thead>
<tr>
<th>Dates</th>
<th>Community Priority Weeks</th>
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<tbody>
<tr>
<td>July 6-12</td>
<td>Affordable Housing &amp; Job Opportunities &amp; Healthy Economy</td>
</tr>
<tr>
<td>July 13-19</td>
<td>Be Prepared for Changes in Our Climate &amp; Reliable Supply of High Quality Water</td>
</tr>
<tr>
<td>July 20-26</td>
<td>Local and Regional Transit</td>
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<tr>
<td>July 27-Aug 2</td>
<td>Local and Dependable Food</td>
</tr>
<tr>
<td>Aug 2-9</td>
<td>BREAK</td>
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<tr>
<td>Aug 10-16</td>
<td>More Equity, Diversity, and Inclusion</td>
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<tr>
<td>Aug 17-23</td>
<td>More Renewable Energy</td>
</tr>
<tr>
<td>Aug 24-30</td>
<td>Healthy Air Quality &amp; Natural Environment</td>
</tr>
<tr>
<td>Aug 31-Sept 6</td>
<td>More Reuse, Recycling and Composting</td>
</tr>
<tr>
<td><strong>Racismo, inequidad y exclusión</strong></td>
<td><strong>Falta de acceso a los servicios</strong></td>
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<tr>
<td>Una organización que tenga un fondo para nuestra comunidad en caso de emergencia</td>
<td>En caso de tornados no sabemos donde ir, información avanzada es importante</td>
</tr>
<tr>
<td>Personas sin documentos somos siempre olvidadas, excepto cuando se trata de pagar impuestos</td>
<td>Falta de información de que es lo que debemos hacer durante una emergencia, especialmente en español</td>
</tr>
<tr>
<td>Servicios médicos preventivos son muy necesarios, y más baratos a la larga</td>
<td>Casos médicos somos excluidos cuando lo necesitamos, no tenemos los mismos derechos</td>
</tr>
<tr>
<td>El seguro médico que tenemos es muy limitado, no cubre muchas cosas</td>
<td>Los trámites burocráticos son muy lentos para recibir servicios médicos</td>
</tr>
<tr>
<td>Los sueldos son muy bajos para nuestra comunidad</td>
<td>Programas de pago en los cuales les den la oportunidad de pagar con servicios</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Rápido crecimiento demográfico</strong></th>
<th><strong>No hay suficientes fondos y recursos</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Los diagnósticos de las enfermedades nos forzaron a regresar varias veces hasta que ya no nos cubre el medicaid</td>
<td>Que haya alguna ayuda para gente sin documentos cuando se quedan sin trabajo</td>
</tr>
<tr>
<td>Traducción en los servicios médicos son escasos</td>
<td>Crear centros de capacitación para entrenar a jóvenes y adultos a responder en situaciones de emergencia.</td>
</tr>
<tr>
<td></td>
<td>Cuando se calcula el ingreso de una familia no se cuentan los gastos que uno tiene</td>
</tr>
<tr>
<td></td>
<td>Se necesitan recursos en casos de enfermedad extrema que cubran los gastos tan altos</td>
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</tbody>
</table>
Phase Two: How do we get there?

Everyone has access to composting no matter where they live.

Affordable and reliable renewable electricity for everyone.

Everyone always has safe, clean water to drink and run their business.
Tell Your Stories
Checking Big Moves Engagement

**Cup of Cap:** 1x1 Deep Dive Conversations
(Historically Underrepresented Groups)

**Big Moves Survey:** Light touch broad reactions
(Broad Community, B&C, City Staff)
Thank you!

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fcgov.com/recycling, ffcgov.com/climateaction
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![Cal Zero Waste](image2)
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![Zero Waste Sonoma](image6)
![Mattress Recycling Council](image7)
![Mobius](image8)

![Strategic Materials](image9)
![zanker recycling](image10)
![Green Mountain Technologies](image11)
![NRC](image12)
For more info:

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