MOVING TOGETHER TOWARDS SUSTAINABLE MATERIALS MANAGEMENT

EPA INITIATIVES AND TOOLS FOR COMMUNITIES

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SUSTAINABLE MATERIALS MANAGEMENT
U.S. EPA’S SMM STRATEGIC PLAN

- Built Environment (buildings, roads, bridges, infrastructure)
- Sustainable Management of Food
- Sustainable Packaging
- Sustainable Electronics Management
- Life Cycle Thinking
- Measurement
- International Efforts
WHAT DOES THIS MEAN?

• Improve and expand data collection ex: material generated, how material is recycled disposed, etc
• Improve codes and ordinances under the built environment
• Increase recycling and access to recycling

2030 FOOD LOSS AND WASTE GOAL

- On September 16, 2015, US EPA and USDA announced the United States’ national food waste reduction goal.
- Reduce wasted food by 50% by 2030.

• U.S. EPA. Iowa Waste Reduction Center, Biocyte, and many others!
• Consider joining us: https://iwrc.uni.edu/foodrecoverysummit
HOW CAN WE ACHIEVE SMM GOALS TOGETHER?

EPA can:

- act as a convener,
- help facilitate discussion,
- provide leadership,
- compile actions and conversations of individual companies, organizations and stakeholders.

YOU CAN DRAMATICALLY REDUCE THE AMOUNT OF TRASH THAT IS THROWN AWAY BY TAKING A FEW EASY STEPS:

- Reduce the amount of materials you use, which reduces the amount of waste you create.
- Reuse materials when possible.
- Recycle whenever possible.
- Rethink the materials you use and those you throw away by thinking about what we’re using and how to reduce the waste we produce. We can help create a cleaner, healthier environment.
Helping Communities Plan for Less Waste

- Learn About the Tool
- Go to the Tool
- Go to the Policy and Program Impact Estimator
- Browse Examples By Topic

EPA MANAGING AND TRANSFORMING WASTE STREAMS TOOL
A planning tool for…

- local or regional solid waste plan updates
- zero waste plans
- community-based initiatives

https://www.epa.gov/transforming-waste-tool
FEATURES COMMUNITIES FROM ACROSS THE COUNTRY
With This Tool You Can

• Develop implementation strategies for a high diversion or zero waste plan from a pick list of 100 initiatives

• Browse implementation examples from other communities to serve as models

• Identify outreach materials & guidance other communities have developed that can be tailored to your community

• Find model language and case studies to inform new terms for your community’s hauler contract or agreement

https://www.epa.gov/transforming-waste-tool
MANAGING AND TRANSFORMING WASTE STREAMS TOOL TOPICS

- Set Community-Wide Goals / Plans
- Address Local Government Operations
- Expand & Incentivize Curbside Collection
- Address Construction & Demolition Debris
- Provide Assistance to Businesses & Institutions
- Conduct Community Outreach & Education
- Implement Food Waste Programs
- Support Product Stewardship
- Establish Dis-Incentives or Restrictions on Disposal
- Develop / Expand Infrastructure and Markets for Reuse & Recovery
<table>
<thead>
<tr>
<th>#</th>
<th>Highlight</th>
<th>Policy or Program Description</th>
<th>Sector(s)</th>
<th>Material or Product Group</th>
<th>Diversion Potential</th>
<th>Upstream Impacts</th>
<th>Local Authority</th>
<th>Receptivity</th>
<th>Staff Knowledge</th>
<th>Community Led Initiatives</th>
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<tr>
<td>1</td>
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<td>High Diversion Goal/Plan</td>
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USE THE TOOL OR....

1. High Diversion Goal/Plan
   Sector: Community

- Adopt a goal and plan for reaching 50% or more diversion from landfilling and combustion by a specific year through "reduce, reuse" as well as recycling and composting.

Examples
- Montgomery County, MD
  The County adopted an Executive Regulation establishing of recycling 70% of the solid waste stream generated in the County by 2020 and is implementing a comprehensive 10-year plan
  - Montgomery County regulation on solid waste and recycling (PDF) (3 pp, 148K)
  - Comprehensive Solid Waste Management Plan for the 2009 through 2019
- Alameda County, CA
  The County adopted a 75% diversion goal and is implementing a number of waste reduction policies and recycling and composting requirements
  - Resolution establishing waste reduction goals (PDF)
  - StopWaste

Food Waste Programs
- Municipal Food Waste Collection
- Food Waste Drop-Off
- Backyard/Neighborhood Composting
- Food Pickup for Donation
- Food Gleaning for Donation
- Food Waste Outreach and Prevention
  - Vendors
  - Consumers
- Food Waste Collection Program with Private Haulers
- Food Waste Pickup for Composting
- Mandatory Subscription - Organics
- Mandatory Composting
- Service Provider Contract and Franchise Agreement Incentives or Requirements
- Landfill Ban - Organics
- Compost Processing
- Anaerobic Digestion
ADDITIONAL EXAMPLES OF MOVING TOWARD ZERO WASTE

- Full Contracts and Agreements
- Contracting Best Practices
- Procurement Process Best Practices
- Local Government Clauses
- Local Government Case Studies

Develop municipal zero waste/high waste diversion plans and ordinances

Assist in student projects/internships with municipalities

Strategy planning for local government solid waste working groups

Identify best practices and resources for waste reduction

If you are at a point of transition for policies or contracts this tool may be a great place to start!

Any other ways you may use it, please let us know!!!!

- Expanded WARM framework to include a community's existing waste stream and policy and program options
- Helps municipalities, counties, and tribes estimate reduction in life cycle GHGs from implementing new or expanded solid waste policies and programs in their communities.

1.) Enter estimates or defaults for regions waste disposal/combustion/recycling

2.) Consider which policies and programs you’d like to implement in the scenario

3.) View the combined projected effect your policy and program choices in new tons diverted and MTCO₂e saved

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<th>Category</th>
<th>Pay As You Throw</th>
<th>Source Reduction</th>
<th>Recycling</th>
<th>Composting</th>
<th>Multi-Family Homes</th>
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<th>Composting</th>
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<td>C&amp;D requirements</td>
<td>Recycling/Reuse</td>
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**New Tons Source Reduced, Recycled, or Composted**

- **Source Reduction (tons)**
  - Single-Family Homes: PAYT, Additional Recycling, and Food Waste Collection: 12,073
  - Multi-Family Homes: Multi-Family Recycling: N/A
  - Commercial: Commercial Diversion: N/A
  - C&D: C&D Recycling: N/A

- **Increased Recycling (tons)**
  - Single-Family Homes: PAYT, Additional Recycling, and Food Waste Collection: 24,973
  - Multi-Family Homes: Multi-Family Recycling: 0
  - Commercial: Commercial Diversion: 29,412
  - C&D: C&D Recycling: 4,451

- **Increased Composting (tons)**
  - Single-Family Homes: PAYT, Additional Recycling, and Food Waste Collection: 12,066
  - Multi-Family Homes: Multi-Family Recycling: N/A
  - Commercial: Commercial Diversion: N/A
  - C&D: C&D Recycling: N/A
PLEASE LET ME KNOW IF……

- You use this tool! We are looking for input and good examples
- You need help!
- You have suggestions or want to be included in the list for your waste reduction policies or strategies!
Thanks!