Connecting Climate and Waste
To Sustainable Materials Management
Resource Conservation Strategies
For Greenhouse Gas Emissions Reductions

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Overview

- Climate & Waste Connection
- Use in Traditional Inventories
- Expanding View to Include Upstream Opportunities
- Value of Materials Management to State and Local Governments
- Tools
- West Coast Forum
New Value for Traditional Programs

- Climate and sustainability efforts highlight “traditional” recycling and resource conservation efforts
- Cost and responsibility to manage waste falls to local governments
- Efforts are primarily driven from end of life, or a discards management perspective
Traditional Waste Programs:  Good and Getting Better

- Statutorily Set Diversion Rates
- Pay-As-You-Throw
- Curbside Recycling
- Targeted Waste Streams
- Construction and Demolition Programs
- Composting: Yard Waste & Organics
- Education Programs
Measuring GHG Reductions

- Treatment of end of life programs in “conventional” inventories
- Reducing GHG Emissions Through Recycling and Composting
- Measuring the Waste Component: 1-5%
  - **WARM**: EPA created the Waste Reduction Model (WARM) to help solid waste planners and organizations track and voluntarily report greenhouse gas (GHG) emissions reductions from several different waste management practices.
Moving Upstream

- From end of life management to full life cycle considerations
- From discards & recycling to materials management
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End of Life Options

Life Cycle Options
US GHG Inventory 2006

Sector-based View

Systems-based View

Materials Management Policies

Provision of Goods 29%
Provision of Food 13%
Use of Appliances and Devices 8%
Building HVAC and Lighting 25%
Local Passenger Transport 15%
Other Passenger Transport 9%
Infrastructure 1%
## End of Life (EOL) Management

<table>
<thead>
<tr>
<th>Scope</th>
<th>End of Life (EOL) Management</th>
<th>Materials Management</th>
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</thead>
<tbody>
<tr>
<td>Scope</td>
<td>Downstream</td>
<td>Lifecycle</td>
</tr>
<tr>
<td>Actions</td>
<td>Recycling, Diversion, Composting</td>
<td>EOL Actions, Packaging, Procurement, Design &amp; Labeling</td>
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<tr>
<td>Partners</td>
<td>Waste Generators, Residents, Businesses, Recyclers, Landfill Operators</td>
<td>EOL Partners, Procurement Staff, Air Programs, Product St., Green Bldg &amp; Roads</td>
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</tbody>
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Identifying Opportunities

- Build on what’s already working in your community
- Identify partners, including non-traditional
- Educate yourself and others
  - LCA Overview: 12/4/12, 11 AM. PST
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**Tools and Resources**
- [West Coast Climate and Materials Management Forum](#)
- [Materials Management Electronic Climate Action Protection Toolkit](#)
- [Communicating the Value of Materials Management](#)
- [Food Waste Prevention Toolkit](#)
- [Us Community Protocol for Accounting and Reporting of GHG Emissions](#)
- [Cool Climate Calculators](#)
The Forum

- Federal, state and local government partnership
- Materials Management approach to climate change & sustainability
- Forum [website](#) coming soon
- Upcoming Events/Products
  - Webinar Series: LCA, Consumption & the Environment
  - Product Stewardship Paper
  - Food Waste Prevention Pilot Results
  - Government Purchasing for Climate Protection
Thank You

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