## • • Disclaimer

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## Materials Management and Product Stewardship Workgroup

#### Workgroup Goal:

- engage in innovative and impactful <u>materials</u> <u>management</u> research and projects
- develop a framework, including tools and practices, that connects <u>product stewardship</u> with GHG emissions reductions and climate action

## • • Current Project

"Identifying Priority Materials and Best Practices for Emissions Reduction through Sustainable Materials Management"

- Identifies top 10 materials with greatest GHG emissions reduction potential in waste stream of WA, OR and CA.
- Uses EPA's WARM calculator to compare emissions to landfilling to recycling and composting.
- Highlights best practices for materials management to achieve state and local policy goals.

Top 10 materials, broken into 4 categories:

- Food Scraps
- Dimensional Lumber
- Carpet
- Core Recyclables
  - Corrugated containers
  - Office paper
  - Aluminum cans
  - Newspaper
  - Magazines
  - Steel cans
  - PET, HDPE (or mixed plastics)

CALIFORNIA		WASHINGTON		OREGON	
Material Type	MTCO2E Reduced	<u>Material Type</u>	MTCO2E Reduced	<u>Material Type</u>	MTCO2E Reduced
Carpet	-9,324,722	Carpet	-1,294,774	Carpet	-497,046
Corrugated Containers	-6,061,275	Food Scraps	-872,695	Food Scraps	-433,855
Food Scraps	-5,837,189	Corrugated Containers	-601,724	Corrugated Containers	-239,367
Office Paper	-3,093,923	Aluminum Cans	-383,414	Dimensional Lumber	-128,271
Dimensional Lumber	-2,123,138	Office Paper	-210,128	Office Paper	-96,435
Newspaper	-913,942	Newspaper	-151,145	Mixed Plastics	-43,041
Magazines*	-750,902	Magazines*	-122,420	Aluminum Cans	-40,096
Aluminum Cans	-652,958	Dimensional Lumber	-93,089	Magazines*	-39,870
Steel Cans	-434,140	PET	-74,758	Newspaper	-34,074
PET	-310,425	HDPE	-72,819	Steel Cans	-33,346
Core Recyclables	-12,217,564	Core Recyclables	-1,616,408	Core Recyclables	-526,229

- Food Scraps
- Dimensional Lumber
- Carpet
- Core Recyclables

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- Food Scraps
- Dimensional Lumber
- Carpet
- Core Recyclables

## • • Upcoming Project

- Produce a white paper evaluating the potential for using product stewardship policies to achieve reductions in product lifecycle GHG emissions.
- This report will be completed in June 2011.
- We are looking for input and participation from Forum members on this and other projects.

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## RESEARCH WORK GROUP UPDATE

January 11, 2011
EPA West Coast Climate and Materials Management Forum

### Mission of the Work Group

- Establish a shared research agenda and develop a strategy to communicate research results.
  - Synthesize research results for local and state government practitioners
  - Communicate research/information needs to research community

### Work Group Members

- Babe O'Sullivan, City of Eugene
- Jeff Dhont, EPA Region 9
- David Allaway, Oregon DEQ
- Ethan Nelson, City of Eugene
- Meg Lynch, Metro

#### Quick Review

- Building list of research priorities
  - Survey monkey
  - TAC summer 2009
- Status as of last forum
  - Draft list of priority research topics/questions
- □ Developments since 2009 Forum
  - EPA Region 9 contract with ICF consultants
  - Refinement of priorities

### Challenges

- Divergent goals for research agenda
- Broad range of research priorities
- Breadth vs. depth
- Limited budget
- Product: one-off or build toward full research agenda
- Dynamic nature of research it's a moving target

### Key Questions

- What is most useful to forum participants? How do you anticipate using the research summary and ultimately the research agenda?
- Should we take a wide or deep approach? How will this affect the quality and usefulness of the work product?
- For the research summary, what format is most useful for synthesizing the research results?
- Should we focus the research summary at the topic level or the specific questions that were prioritized?

### **Contact Information**

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#### **Inventory Workgroup Update**

Prepared for the West Coast Climate and Materials Management Forum

David Allaway, Oregon DEQ

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Shannon Davis, EPA Region 9

Davis.Shannon@epa.gov

January 11, 2011



#### **Workgroup Goal**

 To work towards the development of <u>state</u>, <u>community and city level GHG inventories</u> <u>and action plans</u> that incorporate consumption- and/or systems-based approaches



#### **Workgroup History**

- CARB Community Inventory Protocol
  - Inventory Workgroup developed three framing recommendations:
    - Incorporate life-cycle emissions
    - Include trans-boundary emissions (disposal sites)
    - Include communications/reporting standards
  - Didn't launch



#### Workgroup History, continued

- New strategy (late 2009):
  - Develop toolkit to help local and state governments get materials management into inventories and climate action plans
    - Intended user: state or local staffer ("recycling coordinator") with limited climate experience, invited (or not!) to participate in a community climate action planning project
  - Simultaneously wait for "someone else" to develop a community inventory protocol
- "Someone else" identified in 2010: ICLEI-Local Governments for Sustainability USA



#### The Toolkit

- Great contributions by many Forum members
  - Special thanks to EPA

David Allaway, Oregon DEQ Shannon Davis, EPA Region 9

Jennifer Brady, US EPA

Madalyn Cioci, Minnesota Pollution Control Agency

John Davis, Mohave Desert and Mountain Recycling Association

Mark Gagliardi, City of Oakland

Michelle Gaither, Pacific Northwest Pollution Prevention Center

Brian Helmowski, CalRecycle

Timonie Hood, EPA Region 9

Shizuka Hsieh, US EPA

Tom Huetteman, EPA Region 9

Sego Jackson, Snohomish County

Chris Jones, University of California at Berkeley

Evan Johnson, EPA Region 10, Intern Extraordinaire

Debra Kaufman, StopWaste

Gary Liss, Zero Waste International Alliance

Meg Lynch, Metro (Portland)

Josh Marx, King County

Calla Ostrander, City of San Francisco

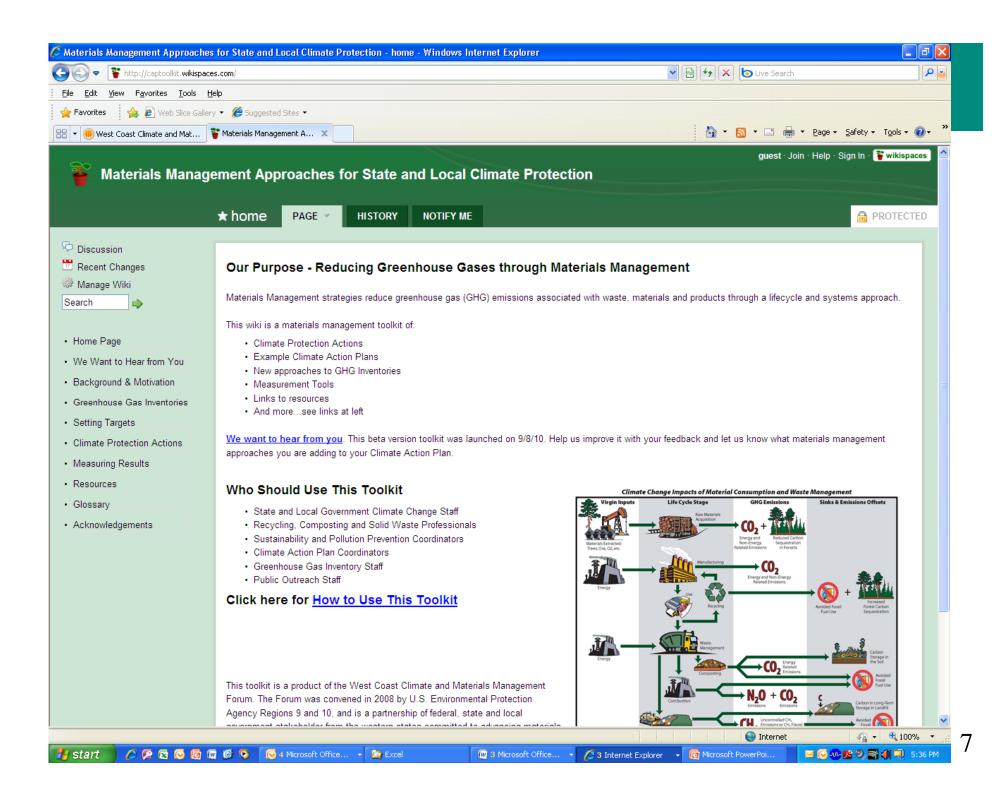
Bill Sheehan, Product Policy Institute

Eileen Sheehan, EPA Region 9

Ted Sheldon, B.C. Ministry of Environment

Jill Simmons, City of Seattle

Saskia Van Gendt, EPA Region 9





#### The Toolkit

- Sections:
  - Home page (<a href="http://captoolkit.wikispaces.com/">http://captoolkit.wikispaces.com/</a>)
  - Background and motivation
  - GHG inventories
  - Setting targets
  - Climate action plans
  - Measuring results
  - Resources
  - Glossary



#### The Toolkit, continued

- Released in draft form September 2010
- Review by Forum members and others
  - Reviewers included small, under-resourced jurisdictions, academia, even EU staff
  - Many useful suggestions on format and substance
  - General comments very supportive
- Many revisions have been made (a few not)



#### **Toolkit Next Steps**

- Immediate:
  - Finish edits from recent comments
  - Add examples from smaller and non-West Coast communities
  - Seek feedback on usefulness from people actually developing inventories, climate action plans
- Next phase:
  - Establish a permanent "home" for the toolkit
  - Secure resources and process for ongoing maintenance, revisions, updates (continue as a wiki?)
  - Promote toolkit
  - Update as needed
    - Add "best practices"?



#### **Community Inventory Protocol**

- A project of ICLEI-Local Governments for Sustainability USA
  - ICLEI: a membership association of local governments committed to advancing climate protection and sustainable development
  - 600 members in US, 1100 worldwide
  - Developer of software tools (CACP, CAPPA)
     to help local governments conduct inventories,
     develop climate action plans
  - Provider of technical assistance through network of regional offices



#### **ICLEI's Process**

- Steering Committee and 6 Technical Advisory Committees:
  - Built Environment
  - Transportation
  - Agriculture
  - Solid Waste
  - Wastewater
  - Life Cycle
- Inventory Workgroup well represented in Steering Committee, Solid Waste TAC, and Life Cycle TAC
- Develop a Framework, then a Protocol
- Original expected completion: ~September, 2011



#### **ICLEI's Process: Early Indications**

- Draft Framework still under development
- "Inventory Protocol" has changed to "Accounting Protocol and Reporting Standards"
  - Separate sections devoted to accounting, reporting
  - Explicit recognition that different communities will use inventory in different ways, e.g.:
    - Focus on emissions related to local government policies/programs
    - Communicate community-wide impacts
    - Compare with other communities
  - Different uses will require inclusion of different emissions
- Strong willingness to consider life-cycle and even full consumption-based emissions



#### **ICLEI's Process: Early Indications (continued)**

Recognition that "Life Cycle" is not a sector

#### TACs

- Agriculture
- Built Environment
   Built environment
- Transportation
- Solid Waste
- Wastewater
- Life Cycle

#### **DRAFT Sectors**

- Ag, land use and forestry
- Transportation energy use
- Materials & waste
- Wastewater

+ Consumption-based accounting?



#### ICLEI's Process: Early Indications (continued)

- May offer several levels of complexity, e.g.:
  - Basic/traditional (in-boundary + electricity, garbage)
  - "Hybrid" approach
    - Basic/traditional with extras (e.g., embodied emissions in fuels, water, food)
  - Basic/traditional or hybrid <u>and</u> a separate, fullconsumption based inventory
- Unclear exactly where/how community-scale recycling might fit



#### **ICLEI: Next Steps**

- Stay tuned! Some issues to watch for:
  - Recycling "not important"
  - Materials management not "policy relevant"
  - Too hard to do the accounting
  - "Don't change (accounting) horses mid-stream"
- Inventory Group not a "member" of the ICLEI process, but lots of overlap in membership
- Draft framework expected in mid-January
- Inventory Group may provide a forum to discuss, generate and vet ideas; involve more people in review; and/or coordinate joint response
- Toolkit may serve to inform the ICLEI protocol by acting as a resource that reviewers – and perhaps the protocol itself – can reference

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Climate and Materials Forum January 11, 2011

Presentation



Outreach

Action

#### Presentation



Presentation



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Use widely! to promote local actions

Send feedback to gglenn@spokanecity.org

Outreach



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