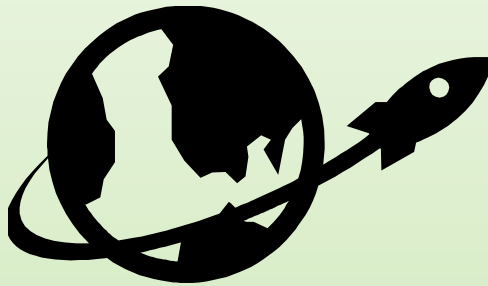


Beyond Waste - The Next Generation



Department of Ecology - December 7, 2009

Today's Speakers

- Polly Zehm
 - Dept of Ecology Deputy Director
- K Seiler and Laurie Davies
 - Program Managers for HWTR and W2R
- Steve Wamback
 - State Solid Waste Advisory Committee Chair
- Questions, peruse posters and eat cake!

What is the Beyond Waste Plan?

- Statewide plan for solid and hazardous waste
- Written in 2004, updated in 2009
- 30 Year Vision:

We can transition to a society where wastes are viewed as inefficient and where most wastes and toxic substances have been eliminated.

This will contribute to environmental, economic and social vitality.



Initiatives

1. Moving Beyond Waste With Industries
2. Reducing Small Volume Hazardous Materials and Waste (MRW)
3. Increasing Recycling for Organic Materials
4. Making Green Building Practices Mainstream
5. Measuring Progress Towards Beyond Waste

The plan also addresses:

6. Current Hazardous Waste Issues
7. Current Solid Waste System Issues



Ecology Management

- Polly Zehm
Deputy Director



Beyond Waste and Ecology

- Beyond Waste affects you every day at Ecology
 - Composting at all our buildings
 - EPP (environmentally preferable purchasing) policy
 - recycled oil, recycled paper, computers, hybrid cars, etc...



It's about more than just waste...

- Facing Climate Change
 - Beyond Waste adopted by Climate Action Team
- Reducing Toxic Threats
 - Addressing persistent bio-accumulative toxins, such as PBDE and mercury
- Protecting Washington Waters
 - Urban Waters and new agency-wide group on toxics in stormwater



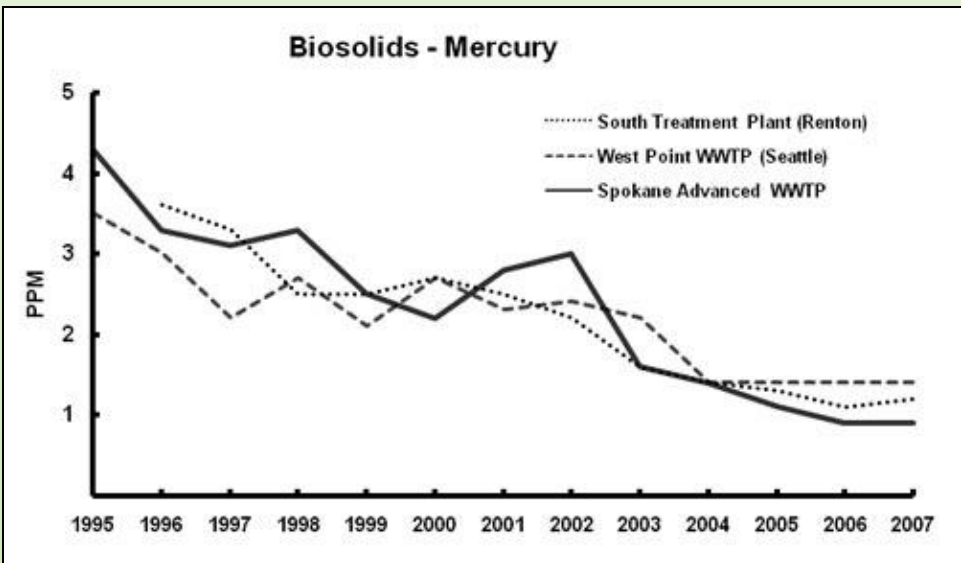
Sponsoring Programs

- K Seiler
Hazardous Waste and
Toxics Reduction



Beyond Hazardous Waste

- Achievements so far...
 - 50% reduction in HW generation rate
 - Mercury reduction at hospitals, dentists and more
 - Lean and Green efforts
 - Local source control specialists



Beyond Hazardous Waste

- Future directions
 - Goal for toxic use reduction
 - 2% reduction annually
 - Additional P2 Work
 - Business early P2 intervention
 - Metals sector
 - Energy reduction work
 - Legislation
 - Joint EPP legislation to support safer products.
 - TSCA Reform



Agency Connections

- Facing Climate Change
 - Energy reductions from P2 planners
 - Less toxic products encourages more recycling
- Reducing Toxic Threats
 - Proper management of HW
 - Safer alternatives research & info
- Protecting Washington Waters
 - Less toxic products in storm water
 - Compliance efforts ensure safe HW management



Sponsoring Programs

- Laurie Davies
Waste 2 Resources



Beyond Solid Waste



Achievements so far

– Green building

- First law in country requiring green public buildings
- All counties have a residential green building program

– Electronics Recycling program

- First big step into product stewardship

– Organics

- Increased composting collection and processing facilities

Beyond Solid Waste

- Future Directions
 - Anaerobic digesters:
organic wastes to energy
 - Children's Safe Products
Act implementation
 - Product stewardship goals
 - Low-impact development
for Green building



Agency Connections

- **Facing Climate Change**
 - Green buildings conserve energy, and use local, salvaged and recycled products.
 - Diverting organics from landfills reduces methane and creates alternative energy sources.
- **Reducing Toxic Threats**
 - Product stewardship leads to less toxic, less wasteful products.
- **Protecting Washington Waters**
 - Green building uses less toxic products and promotes water conservation and stormwater management.
 - Compost reduces need for water and controls stormwater runoff.

Partners

- State Solid Waste Advisory Committee
 - Includes representatives from:
 - Local government
 - Waste and recycling industry
 - NGOs
 - Tribes
- Steve Wamback, chair

Overarching Themes

- Pathway for achieving local (public, private, and NGO sector) goals
- Continued development for resource recovery and recycling infrastructure
- Highlights Waste Prevention education and outreach efforts
- Encourages Product Stewardship and Extended Producer Responsibility
- Data-driven decision-making



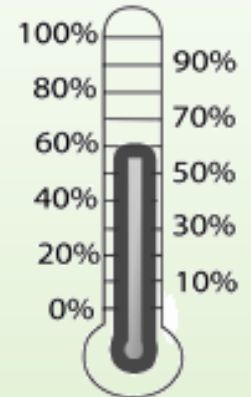
Local Planning & Implementation

- Recycling and Waste Prevention Programs
 - single stream recycling programs
 - more compost facilities, curbside collection programs, and school composting
 - new focus on non-residential programs



Partnerships

- Local governments partner with Ecology to get mercury and other toxics out of landfills
 - MRW collection programs for household and small business hazardous waste
- Local source control efforts partner with businesses to reduce toxics and releases
- Locals and private groups partner to support green building programs across the state



**Watch the Mercury
Drop**



Activities

- Take back programs that encourage product stewardship
- Some local governments have progressive programs to purchase green products
- Inventories of closed and abandoned landfills



Annual Progress Report

- The progress report ties program activities to performance measures.
- Contains indicators that connect Beyond Waste to climate change, pesticides, toxic releases and more...

Beyond Waste

Beyond Waste Progress Report

Beyond Waste Vision
We can transition to a society where waste is viewed as inefficient, and where most wastes and toxic substances have been eliminated. This will contribute to economic, social, and environmental vitality.

Washington State's solid and hazardous waste plan, also called the Beyond Waste plan, was adopted November 2004. The purpose of the 30-year plan is to get us to the Beyond Waste vision (see sidebar). Stated very simply, the vision declares we want to use most waste as resources thereby eliminating wastes. The report is assessing our progress towards reaching the Beyond Waste vision.

The Washington State Department of Ecology has developed a series of indicators that track progress toward the Beyond Waste goals. Listed below are sixteen indicators and a quick snapshot of the trend of the indicator. For more information about the indicator, go to www.ecy.wa.gov/beyondwaste/progressreport

How are we doing in reaching the vision? We have many positive trends, especially in the following areas: solid waste recycling, green building, organics (compostables), electronics, and toxic release risks. We have not yet achieved consistent positive trends of both hazardous waste and solid waste generation decreasing (although solid waste went down for the first time) and solid and hazardous waste increasing. These four indicators combined would be a true picture of whether we are achieving Beyond Waste or not. If most current trends continue however, we should be able to achieve the Beyond Waste vision over time.

Trends that help us to the Beyond Waste vision:

<p>Electronics Recycling</p> <p>Significant increase</p>	<p>Hazardous Waste Per Dollar State GDP</p> <p>Less waste per dollar spent</p>
<p>Mercury in Biosolids</p> <p>Significant decrease</p>	<p>Green Building</p> <p>Significant increase</p>
<p>Solid Waste Recycling</p> <p>Overall increase</p>	<p>Organics (compostables) Recycling</p> <p>Continuing to increase</p>
<p>Toxic Release Risks from Manufacturers</p> <p>Overall decrease; recent leveling off</p>	

October 2008

Beyond Waste

the Beyond Waste vision:

<p>Hazardous Waste Generation</p> <p>Overall decrease; recent increase</p>
<p>Paint Recycling</p> <p>Overall increase; recent decrease</p>
<p>Solid Waste Generation</p> <p>Overall increase; recent decrease</p>
<p>Consumer Ecosystem Toxicity Index</p> <p>Overall increase</p>

www.ecy.wa.gov/pubs/0407022.pdf
[/beyondwaste/bwprog_front.html](http://www.ecy.wa.gov/beyondwaste/bwprog_front.html)
 Chris Chapman in the Hazardous Waste and Toxics
 or Janine Bogar, in the Solid Waste and Financial Planning

If you need information in an alternate format, please call the Hazardous Waste and Toxics Program at 360-407-6700. Persons with hearing loss can call 711 for Relay Service. Persons with a speech disability can call 877-833-6341.

08-04-019

October 2008

- **Questions?**
- **Comments**
 - **Posters**
 - **Cake!**

For More Information

- **Beyond Waste Program Coordinators:**
 - Hazardous Waste: Chris Chapman
 - Solid Waste Issues: Janine Bogar

- **Beyond Waste Initiative Leads:**
 - Industries: Chris Chapman
 - Moderate Risk Waste: Megan Warfield
 - Organics: Chery Sullivan
 - Green Building: Vacant -contact Janine
 - Measuring Progress: Gretchen Newman