

Implementing Oregon's *2050 Vision for Materials Management*

From Managing Wastes to Managing Materials: Implementing Oregon's *2050 Vision*

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Implementing Oregon's *2050 Vision for Materials Management*

Overview of Today's Presentation

- Oregon's *2050 Vision for Materials Management*
- 2015 legislation: Senate Bills 245 and 263
 - What they do
 - How they came about
- DEQ's plans and next steps
- Q & A

2050 Vision for Materials Management in Oregon



Materials Management
through Sustainable
Consumption Webinar
Series

September 24, 2013

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Materials Management in Oregon

2050 Vision and Framework for Action

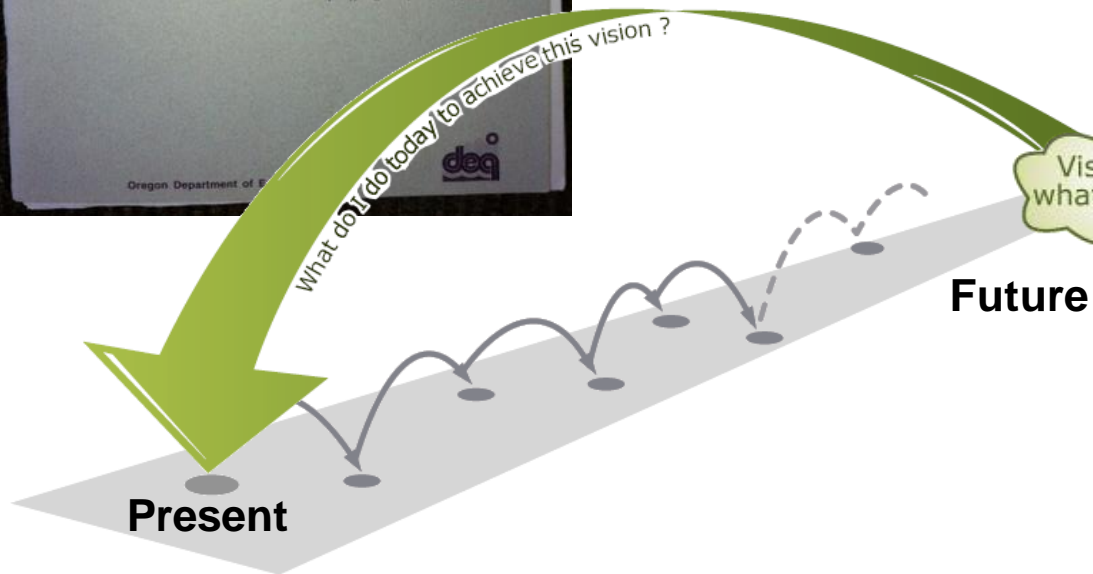
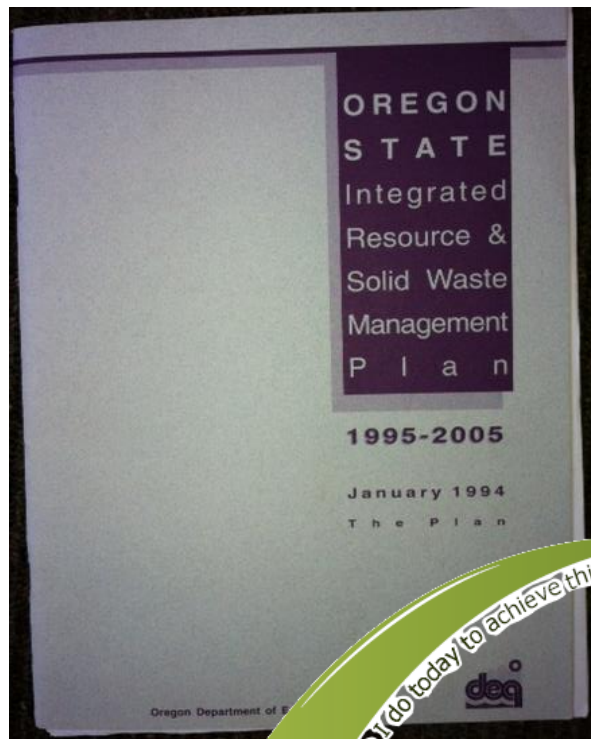
Adopted by the
Environmental Quality Commission
December 6, 2012





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Sustainable Materials Management: THE ROAD AHEAD



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Materials Management: A “Life Cycle” View





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*Oregonians in 2050 produce and use materials responsibly
conserving resources • protecting the environment • living well*

Recognizing that Earth's resources are finite, Oregonians live within the limits of our sustainable share of the world's natural resources. We make and use materials and products in a manner that maintains and restores a healthy environment and fertile soils. Materials and products minimize the use and release of toxins, the release of greenhouse gases and pollutants, the use of energy and water, and the extraction of nonrenewable materials.

We take into account the full impacts of materials throughout their life cycle. We minimize harmful disturbance of land and natural ecosystems, using resources in a responsible way only as necessary to meet human needs and maintain healthy, vibrant communities. When materials and products are no longer useable or wanted, we recover them for their next highest and best use.

We use renewable resources at levels that can be sustained in perpetuity while maintaining the resiliency of natural systems.

Wherever they are made, the materials and products we purchase in Oregon similarly are made in a manner that supports human health, wellbeing, and healthy, resilient environments and communities.

All Oregonians have access to the knowledge, capabilities, resources, and services required to use materials responsibly. This Vision provides for a prosperous and clean economy that allows all people to live fulfilling lives, now and in the future.

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Near-Term Implementation (2013 – 2015)

- ✓ **DEQ's program aligned to implement the Framework for Action**
- ✓ **Stable funding in place**
- ✓ **New or updated goals/measures**
- ✓ **Recycling Opportunity Act evaluated**
- ✓ **Public Support for 2050 Vision**
- ✓ **Research on maximizing the benefits of recovery completed**
- ✓ **Successful upstream projects completed.**

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Questions?





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78th OREGON LEGISLATIVE ASSEMBLY--2015 Regular Session

Enrolled Senate Bill 245

Printed pursuant to Senate Interim Rule 213.28 by order of the President of the Senate in conformance with pre-session filing rules, indicating neither advocacy nor opposition on the part of the President (at the request of Governor John A. Kitzhaber, M.D., for Department of Environmental Quality)

CHAPTER

AN ACT

Relating to solid waste disposal fees; creating new provisions; amending ORS 459.235, 459.236, 459A.025, 459A.110 and 459A.120; and repealing ORS 459.112, 459.114 and 459A.115.

Be It Enacted by the People of the State of Oregon:

2016 FUNDING ADJUSTMENTS

SECTION 1. ORS 459.235, as amended by section 8 of this 2015 Act, is amended to read:

459.235. (1) Applications for permits shall be on forms prescribed by the Department of Environmental Quality. An application shall contain a description of the existing and proposed operation and the existing and proposed facilities at the site, with detailed plans and specifications for any facilities to be constructed. The application shall include a recommendation by each local government unit having jurisdiction and such other information the department deems necessary in order to determine whether the site and solid waste disposal facilities located [thereon] at the site and the operation will comply with applicable requirements.

(2) The Environmental Quality Commission shall establish a schedule of fees for disposal site permits. [The permit fees contained in the schedule shall be based on the anticipated cost of filing and investigating the application, of issuing or denying the requested permit and of an inspection program to determine compliance or noncompliance with the permit.] Consistent with the policies in ORS 459.015, moneys collected under this section shall be used to fund oversight activities related to solid waste disposal sites, including but not limited to policy development, permitting, inspecting, monitoring, enforcement, training, technical assistance, responding to complaints, rulemaking and any other activities that support the safe management of solid waste.

[(3) In addition to the fees imposed under subsection (2) of this section, the commission shall establish a schedule of permit fees for the purpose of implementing this section and ORS 90.318, 182.375, 279A.125, 279A.155, 279B.025, 279B.240, 279B.270, 279B.280, 459.005, 459.015, 459.247, 459.418,

78th OREGON LEGISLATIVE ASSEMBLY--2015 Regular Session

Enrolled Senate Bill 263

Printed pursuant to Senate Interim Rule 213.28 by order of the President of the Senate in conformance with pre-session filing rules, indicating neither advocacy nor opposition on the part of the President (at the request of Governor John A. Kitzhaber, M.D., for Department of Environmental Quality)

CHAPTER

AN ACT

Relating to materials management of solid waste; creating new provisions; and amending ORS 459.055, 459.305, 459A.005, 459A.010, 459A.020, 459A.029, 459A.030, 459A.035 and 459A.050.

Be It Enacted by the People of the State of Oregon:

OPPORTUNITY TO RECYCLE: GOAL AND RECOVERY RATE UPDATES

SECTION 1. ORS 459A.005 is amended to read:

459A.005. (1) As used in ORS 459.015, 459.250 and 459A.005 to 459A.665, the "opportunity to recycle" means at least that the city, county or metropolitan service district responsible for solid waste management:

(a)(A) Provides a place for collecting source separated recyclable material located either at a disposal site or at another location more convenient to the population being served and, if a city has a population of 4,000 or more, collection at least once a month of source separated recyclable material from collection service customers within the city's urban growth boundary or, where applicable, within the urban growth boundary established by a metropolitan service district; or

(B) Provides an alternative method [which] that complies with rules of the Environmental Quality Commission; and

(b) Complies with the [rates and program elements required under ORS 459A.010] program element requirements described in section 5 of this 2015 Act.

(2) The "opportunity to recycle" defined in subsection (1) of this section also includes a public education and promotion program that:

(a) Gives notice to each person of the opportunity to recycle; and

(b) Encourages source separation of recyclable material.

SECTION 2. ORS 459A.005, as amended by section 1 of this 2015 Act, is amended to read:

459A.005. (1) As used in ORS 459.015, 459.250 and 459A.005 to 459A.665, the "opportunity to

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Senate Bill 245: Addressing 4 Problems

1. Complex and overlapping fees
2. Very volatile revenue (year to year)
3. No adjustments in fees since 1994; deep cuts in services starting in 2008
4. Outdated language and focus



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Senate Bill 245

- Consolidates 4 fees into 2 (permit, tipping)
- Changes authorized uses of fees
- Allows for tipping fees to rise from \$0.81/ton to \$1.18/ton + future adjustments
 - DEQ's budget bill assumes a separate increase in permit fees
- Broadens fee base (limited purpose landfills; possibility of compost feedstocks)
 - Requires a legislative report on sustainable funding



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Senate Bill 245 (continued)

- Creates a partial fee rebate program for Oregon's nine most economically distressed counties
- Changes grants
- Authorizes loans
- Makes housekeeping changes

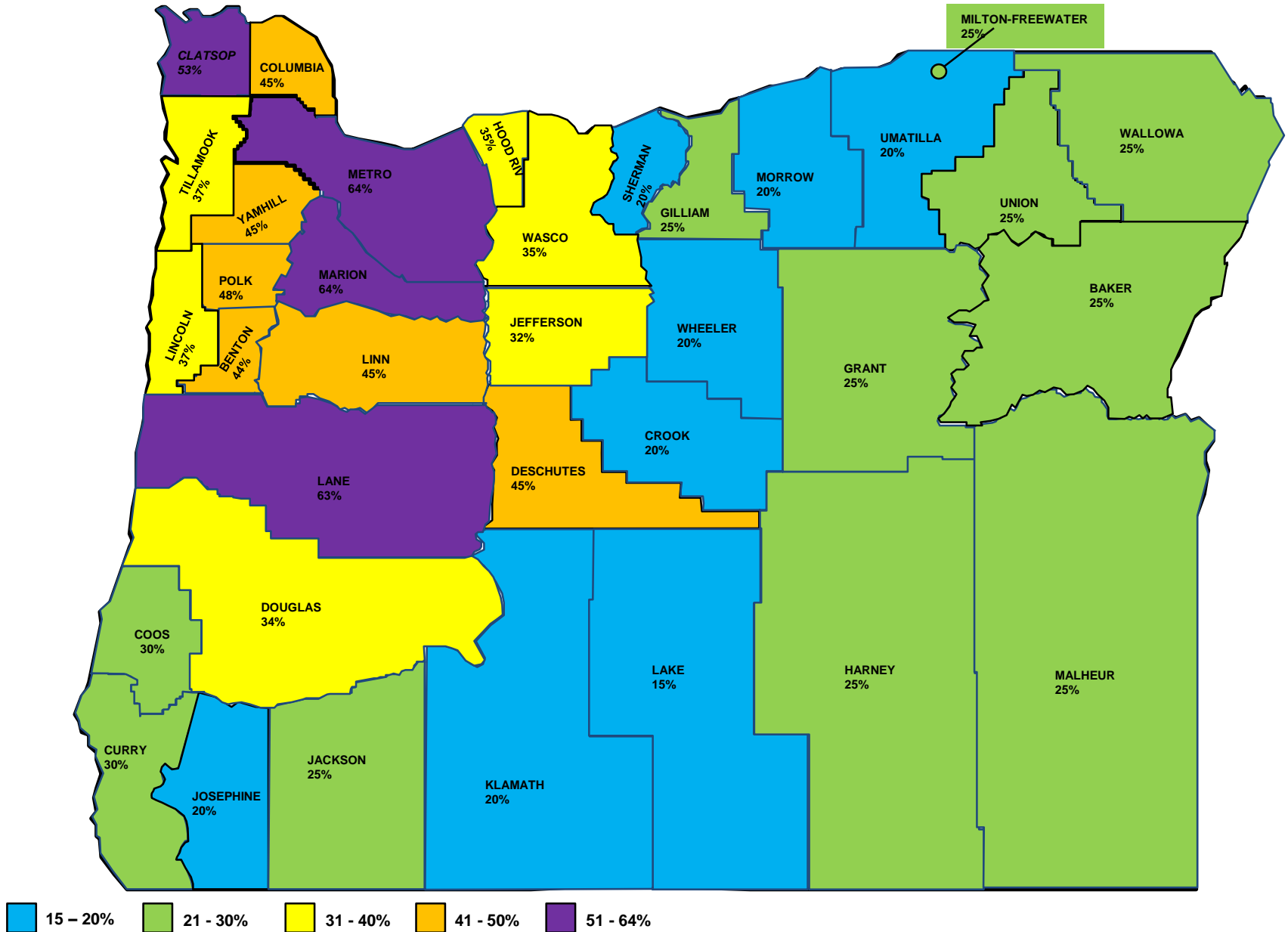
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Senate Bill 263: New Statewide Goals

- All waste recovery: 52% by 2020, 55% by 2025
 - **Plastic** and **food** waste recovery: 25% by 2020
 - **Carpet** waste recovery: 25% by 2025
- Waste generation: reductions from 2012 (baseline)
 - 15% below by 2025
 - 40% below by 2050



New Wasteshed Waste Recovery Goals

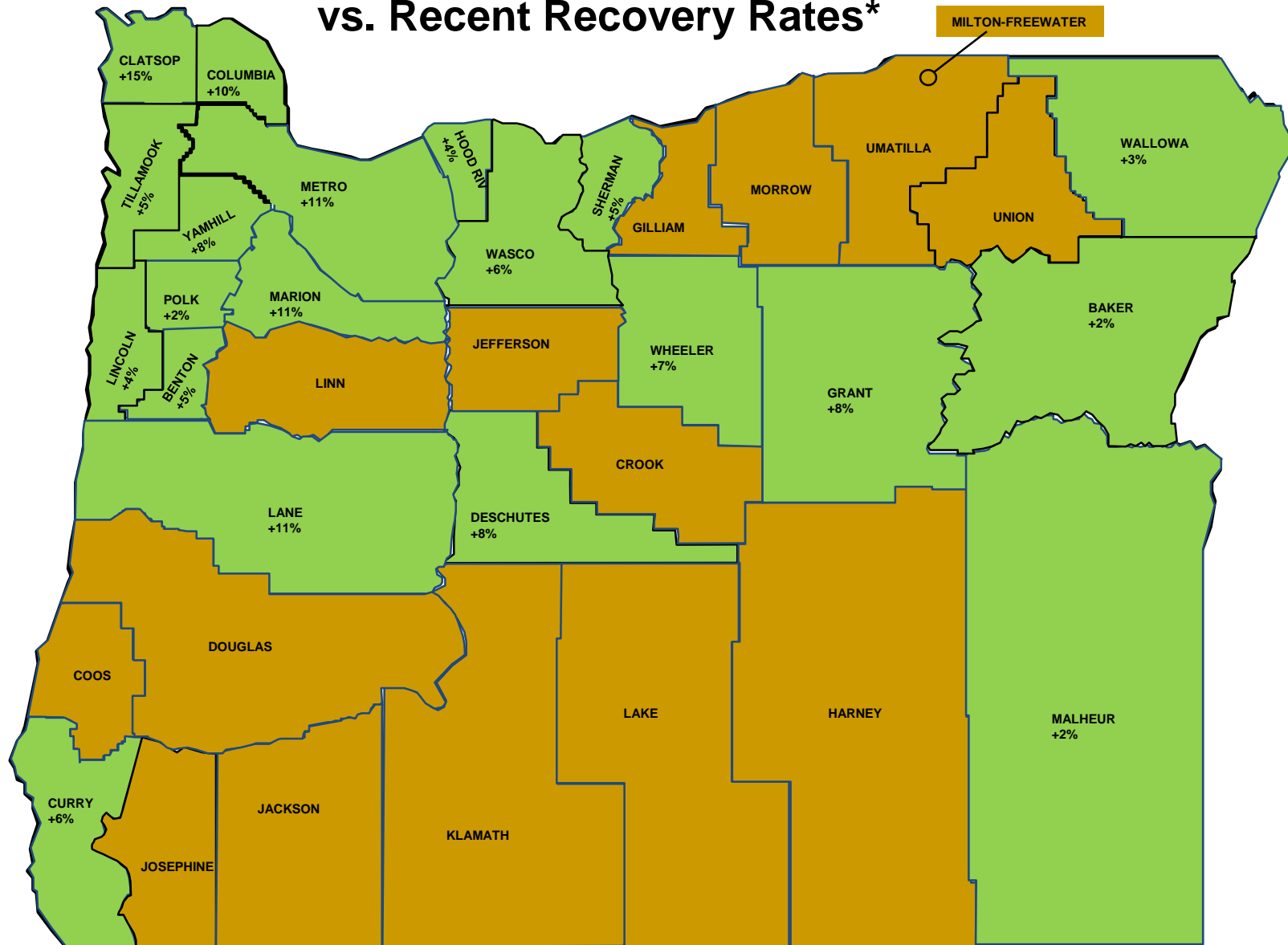


New Wasteshed Waste Recovery Goals vs. Effective Existing Goals*



* "Effective existing goals" are existing statutory goals less recent 2% recovery rate credits.

New Wasteshed Waste Recovery Goals vs. Recent Recovery Rates*



Goals set higher than current rates

Goals set equal to or lower than current rates

*Average 2008 – 2012 (time-weighted); no recovery credits

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Senate Bill 263: Waste Recovery and Prevention

- Change to “program elements”
 - More elements to choose from
 - More requirements of larger communities and those closer to Portland
 - Revisions to address recycling contamination
 - Separate elements related to waste prevention and reuse
- Recycling opportunities extended to multi-tenant settings (2022)



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Questions?



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Road to Success in Salem (Oregon State Capitol)



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Mythology of Oregon



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SB 245 and SB 263 Vote Counts

Legislation	Democrats (Y-N)	Republicans (Y-N)
SB 245: Solid waste disposal fees and use of revenue	Senate 17-0 House 33-0	Senate 2-9 House 11-13
SB 263: Waste prevention and recovery - program requirements and goals.	Senate 17-0 House 35-0	Senate 2-10 House 11-13

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New and Restored Services

- Grants for local governments + others
- Restart household hazardous waste (HHW) collection, mercury collection, lab cleanouts; update state's HHW Plan
- Multi-tenant recycling
- New programs to increase recovery of food, plastics
- New projects on product environmental footprinting
- Support for sustainable purchasing initiatives, toxic reduction strategy
- Strategic plans for product reuse and repair; food waste prevention; business partnerships
- Outcome-based recovery rates
- Capacity building in life cycle analysis
- New education and outreach materials
- Update of the 2050 Vision and Framework for Action

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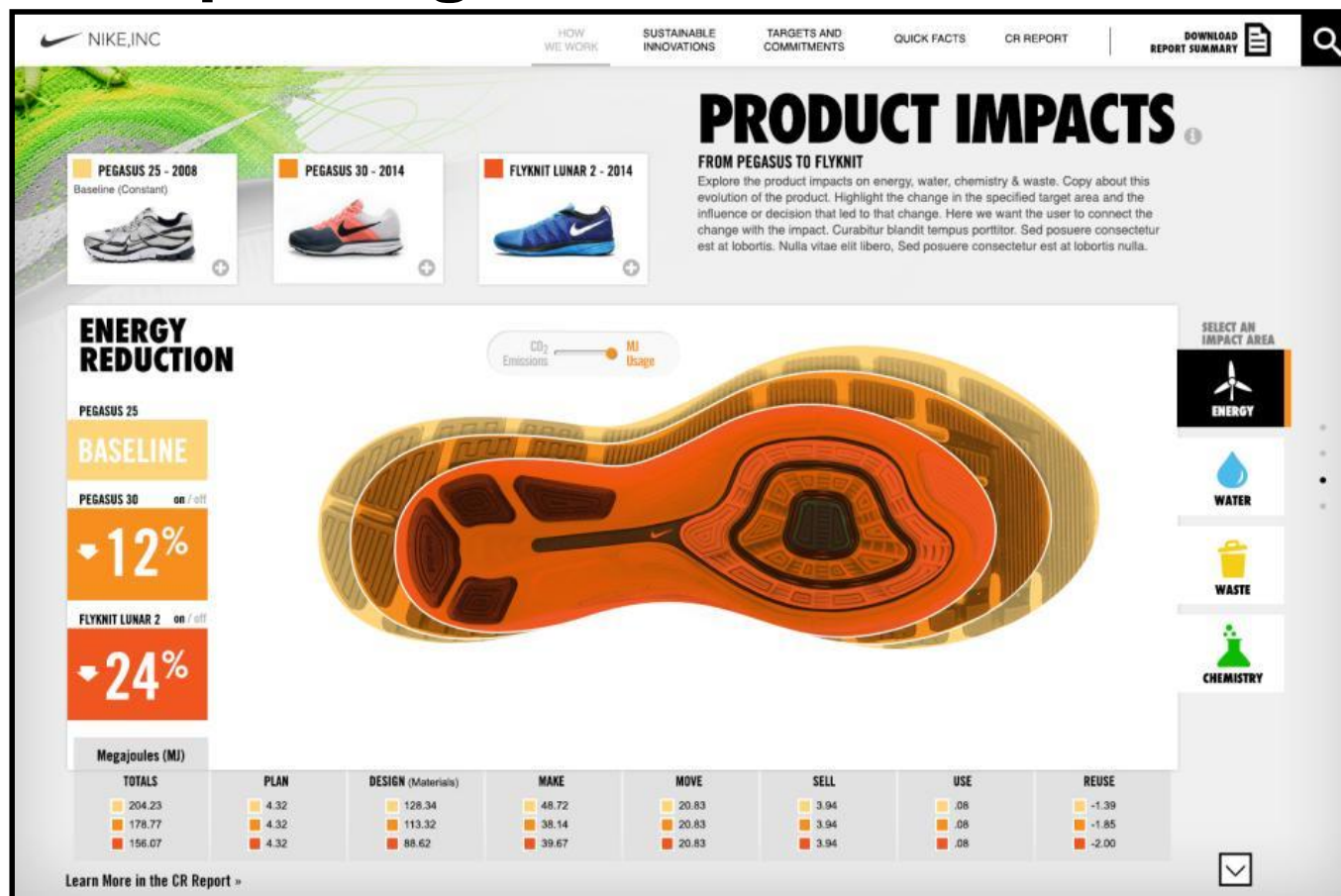
Upstream: Green Building

- Space Efficient Housing projects
 - Accessory Dwelling Unit (ADU) Tours
 - Case Studies on Accessorydwellings.org
 - Build Small Live Large Housing Summit
 - Collaborative research with DLCD and ODOE
- Deconstruction
 - Online calculator for carbon and energy benefits of deconstruction vs. demolition
- LEED Rating System
 - Materials and Resources Technical Advisory Group



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Upstream: Product Environmental Footprinting



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Upstream: Product Environmental Footprinting (continued)

- Project partners: Oregon Sustainability Board, Washington Department of Ecology, Oregon DEQ.
- Stakeholder Advisory Group
- Research into barriers and benefits: 115 surveys + 16 in-depth interviews
- Prioritized recommendations
- Report at:
http://www.oregon.gov/deq/LQ/Pages/SW/product_ecofootprint.aspx

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Product Environmental Footprinting – Next Steps

- Concrete
- Foods
- Case studies

EPD “Nutrition” Label

Your Building Product

Amount per Unit

LCA IMACT MEASURES	TOTAL
Primary Energy (MJ)	12.4
Global Warming Potential (kg CO ₂ eq)	0.96
Ozone Depletion (kg CFC-11 eq)	1.80E-08
Acidification Potential (mol H ⁺ eq)	0.93
Eutrophication Potential (kg N ⁻ eq)	6.43E-04
Photo-Oxidant Creation Potential (kg O ₃ eq)	0.121

Your Product's Ingredients: Listed Here

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New Partners, New Opportunities, New Jobs



“Job Interest Card” at www.tinyurl.com/DEQJobs

- Check “green collar/environmental”

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Questions and Answers



Thank you

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