

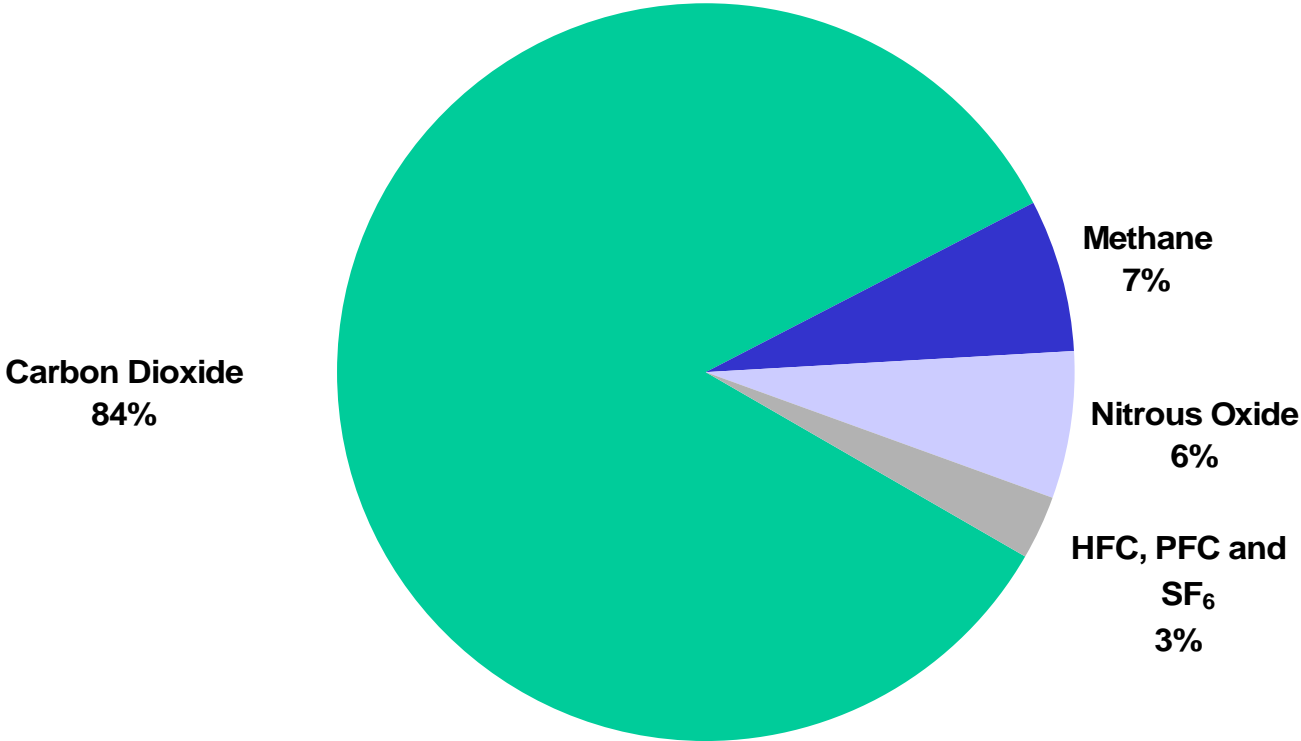
**Oregon Strategy for
Greenhouse Gas Reductions**
Western Regional Air Partnership
Santa Fe, New Mexico

David Van't Hof
Governor's Sustainability Advisor
August 25-26, 2005

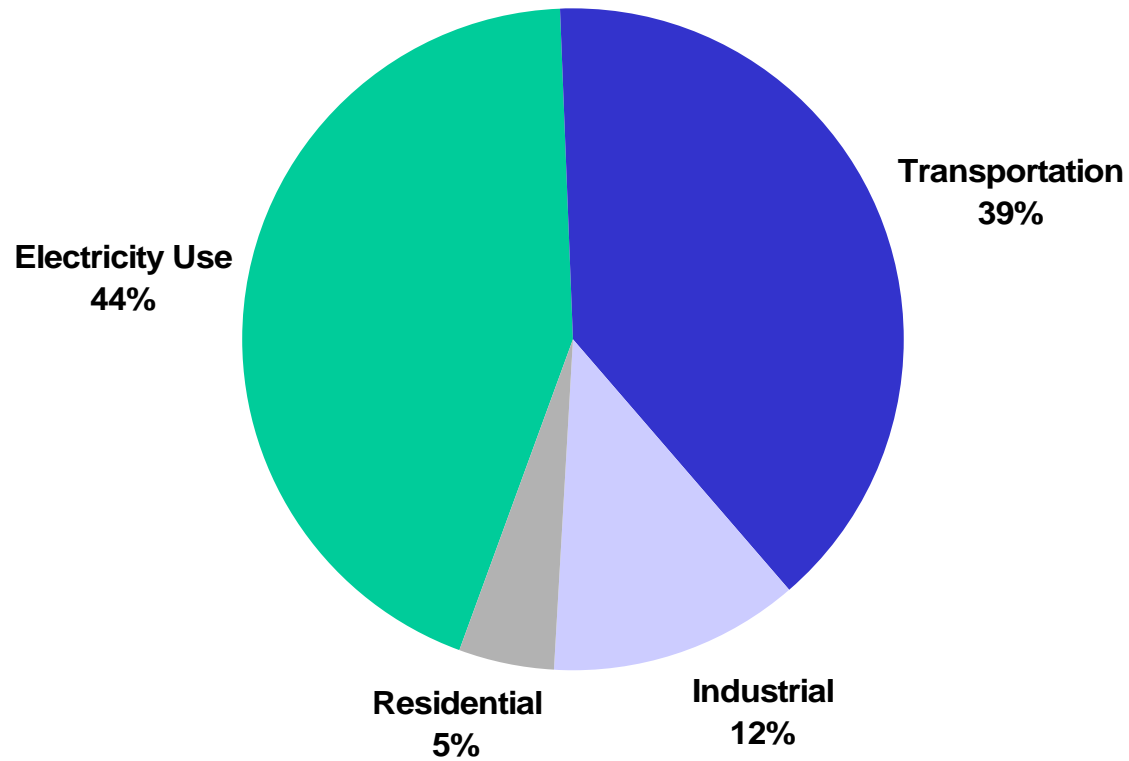
Governor's Advisory Group on Global Warming

- ◆ **Appointed by the Governor in early 2004, concurrent with the West Coast Governors' Global Warming Initiative**
- ◆ **Public and private representation (28 members) with support from technical subcommittees and 250 written comments from the public**
- ◆ **Unanimously adopted *Oregon Strategy for Greenhouse Gas Reductions* in December**
- ◆ **Published report was transmitted to Governor Kulongoski in March 2005**

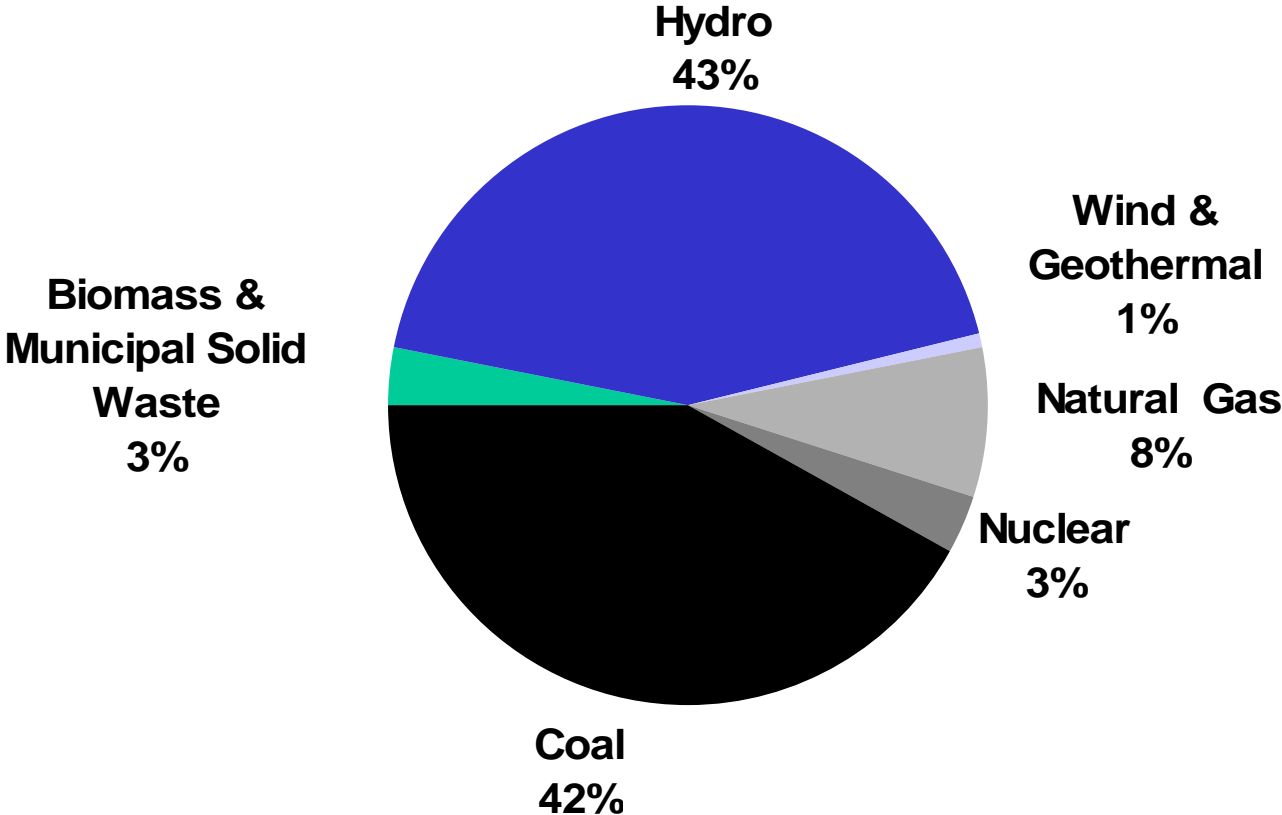
Oregon GHG Emissions Sources in 2000



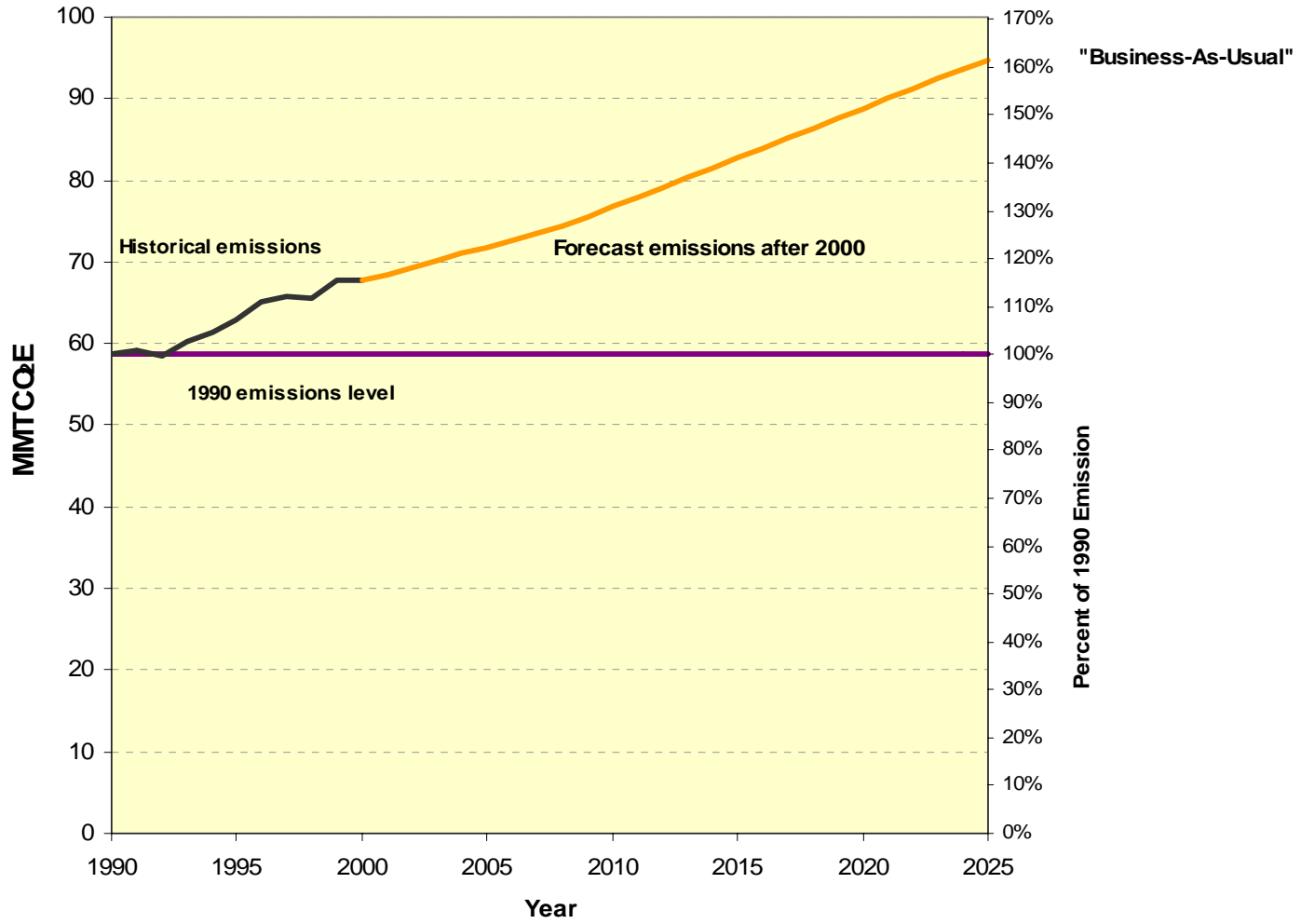
Oregon's CO₂ Emissions from Fossil Fuels by Sector



Electricity Mix Supplying Oregon 2002



Historic and Forecast Greenhouse Gas Emissions in Oregon



Historical and Forecast Oregon Greenhouse Gas Emissions, MMTCO₂E

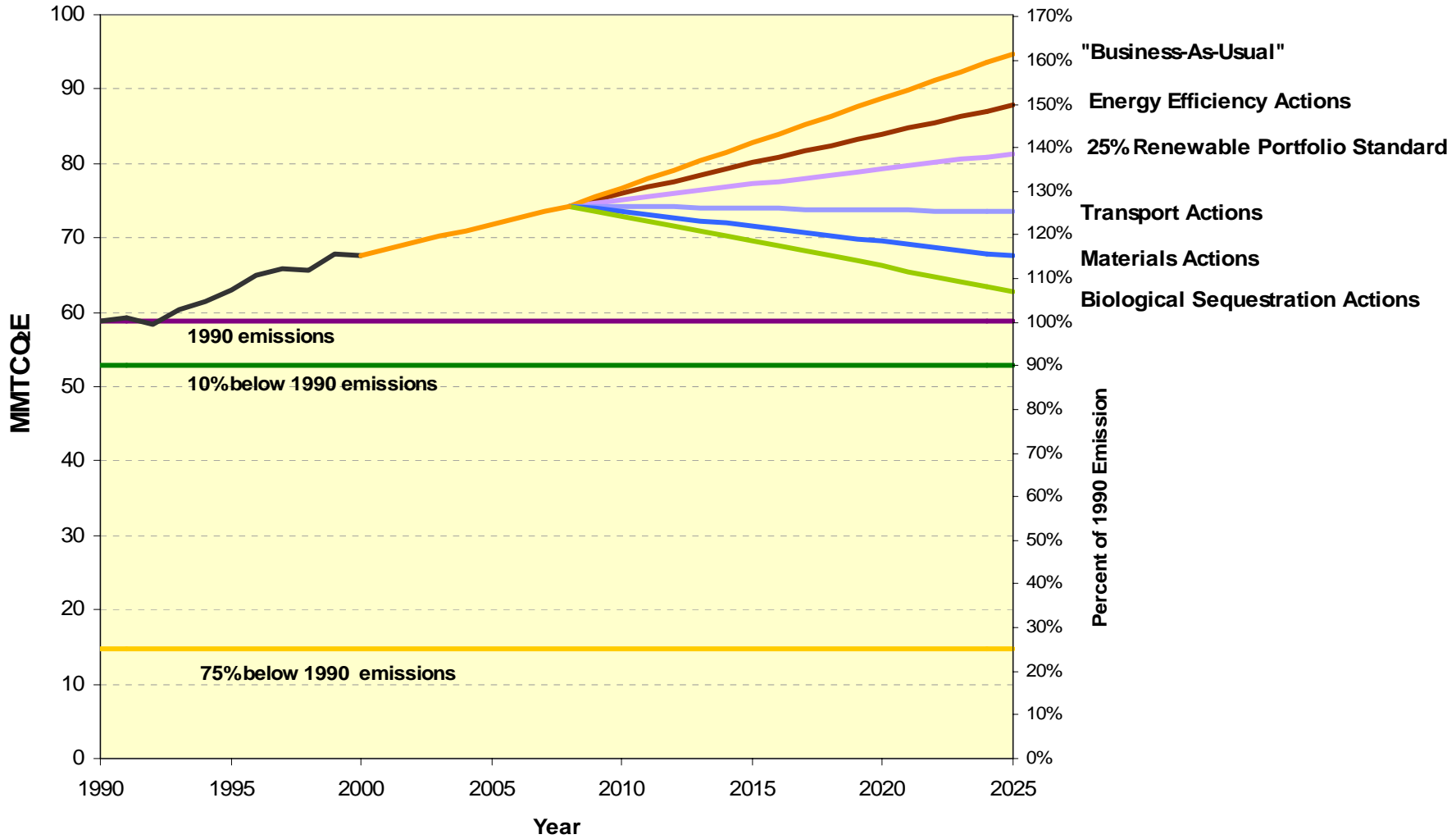
	1990	1995	2000	2015	2025
Gross CO₂	49.2	52.6	57.9	70.6	80.3
Net CO₂	48.4	51.9	57.0	69.6	79.0
CO ₂ from Fossil Fuel Combustion	48.5	51.9	57.0	69.4	78.8
Industrial Processes	0.3	0.3	0.6	0.9	1.1
Waste	0.3	0.4	0.3	0.3	0.4
Landfill Carbon Storage	(0.8)	(0.8)	(0.8)	(1.0)	(1.2)
Methane	4.2	4.4	4.5	5.9	6.5
Stationary Combustion	0.1	0.1	0.1	0.1	0.0
Mobile Combustion	0.1	0.1	0.1	0.1	0.0
Natural Gas and Oil Systems	0.6	0.6	0.6	0.7	0.8
Enteric Fermentation	2.0	2.2	2.2	2.6	2.9
Manure Management	0.3	0.3	0.3	0.3	0.3
Waste	1.0	0.9	1.1	1.9	2.3
Wastewater	0.2	0.2	0.2	0.2	0.2
Nitrous Oxide	4.4	4.9	4.2	5.5	6.0
Stationary Combustion	0.1	0.1	0.1	0.1	0.0
Mobile Combustion	0.6	0.8	0.8	1.0	1.1
Manure Management	0.1	0.1	0.1	0.0	0.0
Agricultural Soil Management	3.4	3.8	3.1	4.3	4.7
Waste	0.0	0.0	0.0	0.0	0.0
Wastewater	0.1	0.1	0.1	0.1	0.2
HFC, PFC, and SF₆	1.7	1.8	2.0	2.5	3.3
Hydrofluorocarbons	0.0	0.3	0.7	1.9	2.6
Perfluorocarbons	1.1	1.1	0.9	0.5	0.5
Sulfur Hexafluoride	0.5	0.5	0.3	0.2	0.1
Gross Emissions	59.5	63.8	68.6	84.6	96.0
Landfill Carbon Storage	(0.8)	(0.8)	(0.8)	(1.0)	(1.2)
Net Emissions (Sources and Storage)	58.7	63.0	67.7	83.6	94.8

Governor's Advisory Group on Global Warming

Key Principles

- ◆ **Goals and solutions grounded in science**
- ◆ **Begin with cost-effective actions**
- ◆ **Serve long-term economic well-being and climate stabilization, but maintain short-term competitiveness**
- ◆ **Ensure energy reliability**
- ◆ **Equity in allocating costs and benefits**

Historic and Forecast Greenhouse Gas Emissions in Oregon and Estimated Cumulative Reductions from All Measures in Sequence



Recommendations and Actions

Governor Accepted Major Recommendations

- ◆ **New GHG Emission Reduction Goals:**
 - 10% below 1990 levels by 2020**
 - 75% below 1990 by 2050**
- ◆ **Meet Northwest Power and Conservation Council target of capturing at least 960 average megawatts (aMW) of electricity savings and comparable savings of gas and oil.**
- ◆ **Increase retail energy sales from renewable resources by one percent or more annually through 2015 (about 150 aMW per biennium).**

Governor's Actions

- ◆ **Governor will convene task force to recommend to the 2007 Legislature a **carbon content standard** for delivered energy (electricity, gas, oil) on a schedule consistent with state goals.**
- ◆ **A Renewable Portfolio Standard is an alternate or complementary approach for electricity, with an assumption that it would be at least 25%.**

Governor's Actions

- ◆ **Governor will convene task force to recommend to the Environmental Quality Commission or the Governor and the 2007 Legislature a proposal for adopting California greenhouse gas emission standards for new vehicles.**
- ◆ **Governor will use a line-item-veto to remove a budget note that advises the Department of Environmental Quality not to spend money on adopting vehicle standards.**

Governor's Actions

- ◆ **Governor will convene an new advisory group to address adaptation to climate change and implementation of mitigation recommendations.**

Legislative Action

- ◆ **Legislature adopted appliance efficiency standards for 11 products, consistent with California and Washington standards.**
- ◆ **Legislature increased incentive for residential photovoltaics.**

Department of Energy

- ◆ **Published Renewable Energy Action Plan in 2005 to complement GHG reduction strategy and West Coast Governors' Global Warming Initiative.**

City of Portland and Multnomah County

- ◆ **Portland adopted its CO₂ reduction strategy in 1993. First US city to do so.**
- ◆ **By 2004, emissions had returned to within 1% of 1990 levels.**
- ◆ **Reasons why CO₂ emissions have been reduced:**
 - **Per capita gasoline use decreased 9%**
 - **Transit ridership has increase 75%**
 - **Bicycling has tripled**
 - **Household electricity use fell by 10%**
 - **Recycling rates tripled to 55%**
 - **Water use reduced 15% per capita**

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Oregon Strategy for Greenhouse Gas Reductions at

www.oregon.gov/ENERGY/GBLWRM/Strategy.shtml