

Eugene's Climate and Energy Action Plan and Materials Management



SUSTAINABLE OREGON 2011

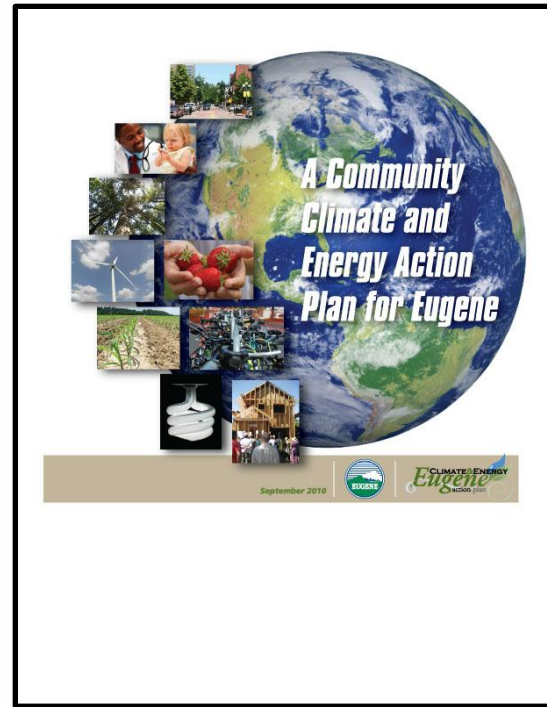
presented by the

Association of Oregon Recyclers

Today's Outline

- Eugene's Climate and Energy Action Plan
- Counting carbon – GHG inventories
- Eugene's CEAP recommendations
- Signs of progress
- Food for thought

Eugene Climate and Energy Action Plan



Eugene's first CEAP approved by City Council in September 2010

Eugene Climate and Energy Action Plan

GOALS:

1) Reduce greenhouse gas emissions.



2) Reduce fossil fuel use 50%

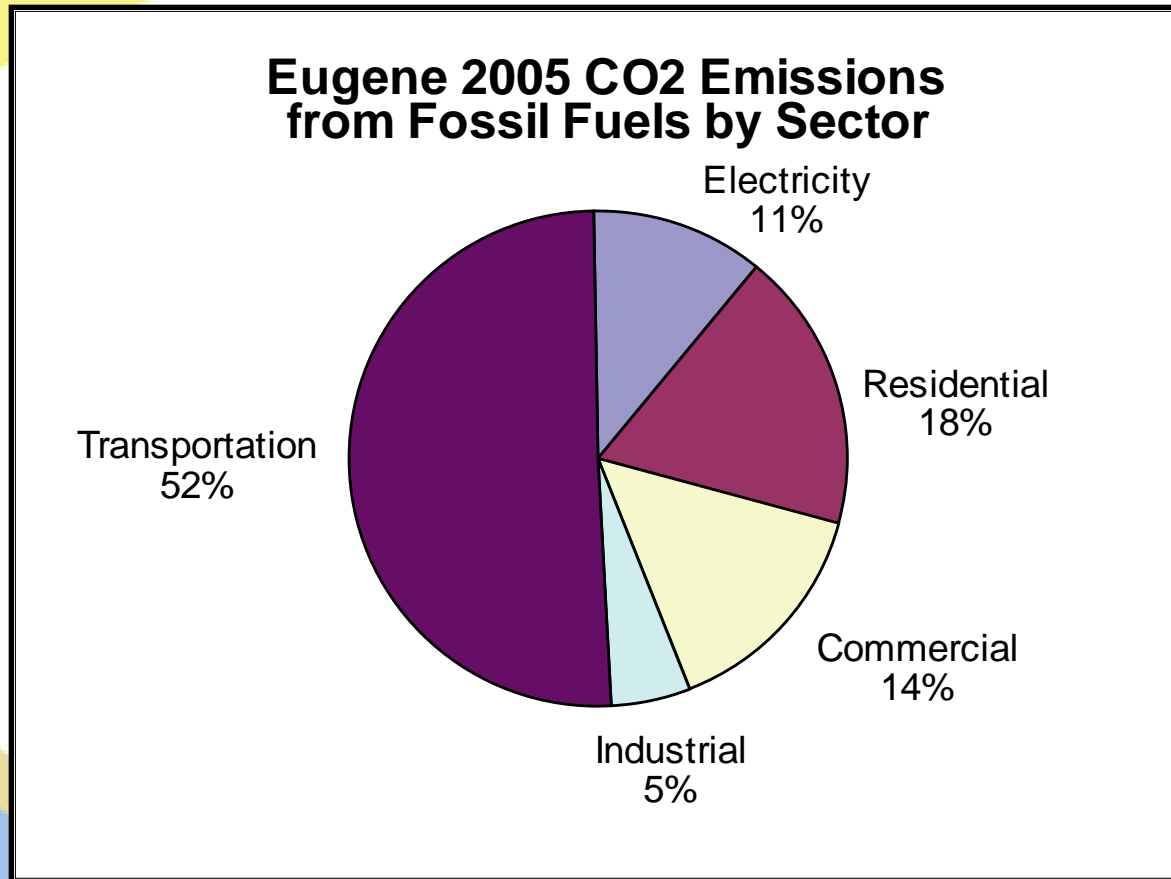


3) Identify adaptations to
climate change.

4) Identify adaptations to rising
fuel prices.

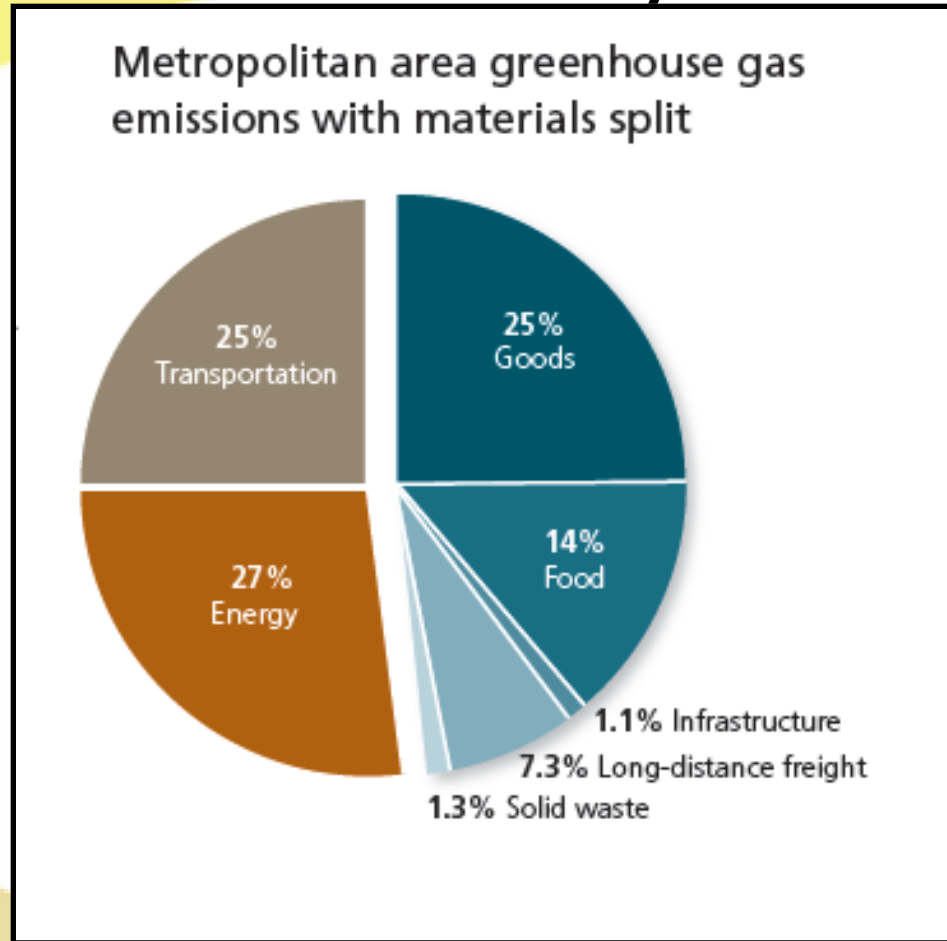


Sector based greenhouse gas inventory



Eugene Sector-based GHG inventory (2007)

System-based greenhouse gas inventory



Portland Metro System-based
GHG inventory (2010)

Greenhouse Gas Emissions Reductions and Materials Management

“Waste Management” or “Discards Management” is a Subset of Materials Management

**“Zero Waste” (at disposal sites)
≠ Zero Emissions**



Greenhouse Gas Emissions Reductions and Materials Management

“Waste Management” or “Discards Management” is a Subset of Materials Management



Materials
Management

Discards
Management

Eugene Climate and Energy Action Plan

Plan broken into six sections:

Buildings and Energy

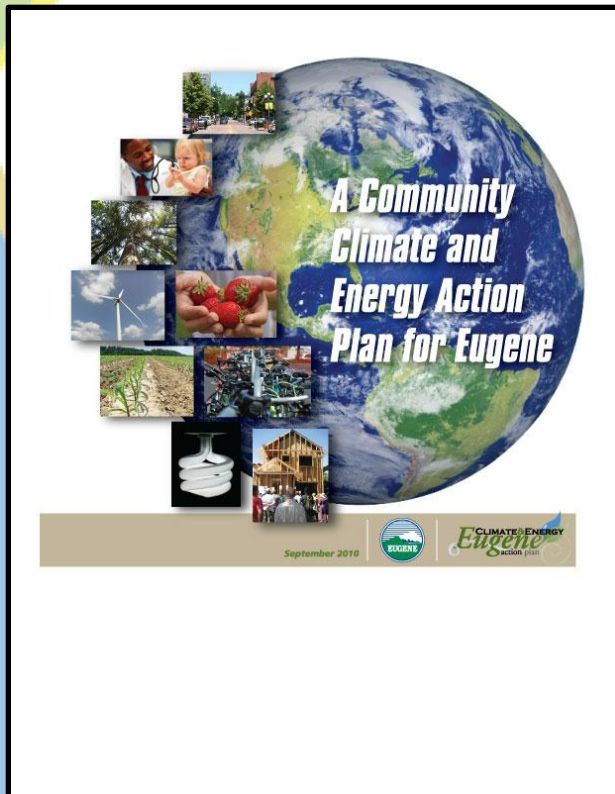
Food and Agriculture

Land use and Transportation

Consumption and Waste

Health and Social Services

Urban Natural Resources



Greenhouse Gas Emissions Reductions and Materials Management



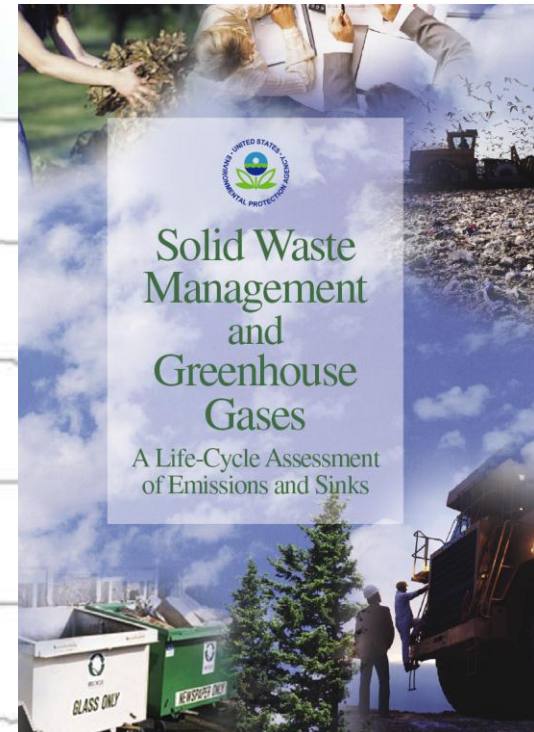
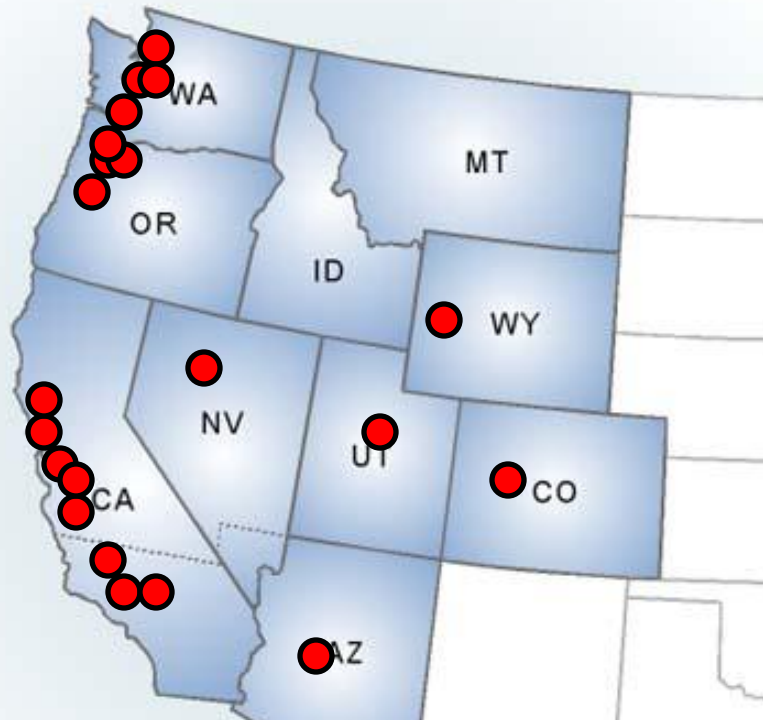
Specific recommendations:

Follow research and incorporate findings from:

EPA West Coast Forum on Climate Change and Materials Management

The Oregon Global Warming C

Interim Roadmap



<http://captopkit.wikispaces.com/>

Upstream Recommendations:

Lobby at the state level for better product labeling including GHG emissions labeling.

POWER CONTENT LABEL		
	PRODUCT	2007 CA
ENERGY	NAME*	POWER
RESOURCES	(projected)	MIX**
	(for comparison)	
Eligible Renewable	55%	10%
-- Biomass & waste	10%	<1%
-- Geothermal	11%	2%
-- Small hydroelectric	13%	6%
-- Solar	10%	<1%
-- Wind	11%	2%
Coal	16%	32%
Large Hydroelectric	12%	24%
Natural Gas	16%	31%
Nuclear	1%	3%
Other	<1%	0%
TOTAL	100%	100%
* 50% of this product is specifically purchased from individual suppliers.		
** Percentages are estimate annually by the California Energy Commission based on electricity sold to California consumers during the previous year.		
For specific information about this electricity product, contact Company Name. For general information about the Power Content Label, contact the California Energy Commission at 1-800-555-7794 or www.energy.ca.gov/consumer		

Upstream Recommendations:

Educate businesses and residents about the role of consumption in GHG emissions



Upstream Recommendations:

Set targets and create measurements to increase the effectiveness of current sustainable purchasing policies



Upstream Recommendations:

Reduce public agency purchase of greenhouse gas-intensive goods by 2014.



Downstream Recommendations:

Enact a local ordinance to increase waste recovery rates from *commercial* and *multi-family* buildings



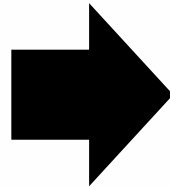
Downstream Recommendations:

Enact an ordinance requiring all construction and demolition waste be sorted for reusable or recyclable materials



Downstream Recommendations:

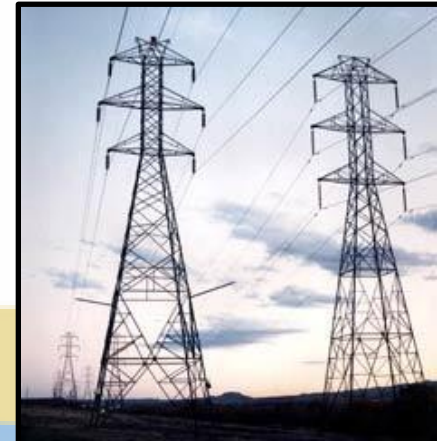
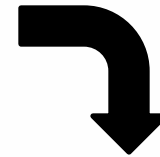
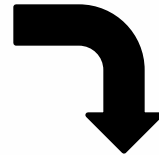
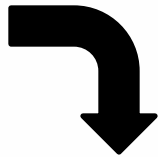
Establish a composting facility that can accept food wastes



Develop a food waste collection program and rate structure

Downstream recommendations:

Conduct a pilot project at the municipal wastewater treatment plant to co-digest food waste and biosolids to generate electricity



Signs of progress

One local commercial composting facility has a permit to accept food waste - and expects to begin accepting all types of food waste in July 2011.



Signs of progress

We are currently creating an internal operations zero waste plan.



Signs of Progress

Preparing an education campaign – drawing on the work of others

PORTLAND CLIMATE ACTION NOW!



City of Portland Bureau of
Planning and Sustainability
100 N. Oregon Street, Portland, Oregon

Taking action on climate change can seem overwhelming. But residents like you are already taking important steps to move us in the right direction.

The choices we make everyday about food, heating and powering our homes, getting around and buying and disposing of stuff make up more than half of all local carbon emissions. We all have an important role to play.

The good news is, making choices that protect the climate makes sense in our everyday lives. These choices help us save money, be healthy, support our local economy and connect with family, friends and community.

TAKE ACTION TODAY!

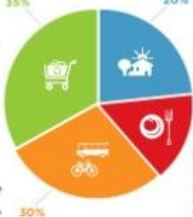


CLIMATE AND YOUR STUFF

FACT: About 35 percent of household carbon emissions come from the manufacturing, shipping and packaging of the stuff we buy; food adds another 16 percent.

CLIMATE AND A HEALTHY HOME

FACT: The heating, cooling and powering of buildings is the single largest contributor to human caused global warming, accounting for about a third of total carbon emissions. About 20 percent of all emissions come from our homes.



CLIMATE AND GETTING AROUND

FACT: The transportation of people accounts for almost 30 percent of local carbon emissions in Multnomah County.

CLIMATE AND FOOD CHOICES

FACT: The global system for producing, distributing and landfilling of food accounts for at least 16 percent of household carbon emissions that cause global warming.

WHAT IS GLOBAL WARMING?

Global warming is happening because we are putting too much carbon into the atmosphere by burning fossil fuels for energy—whether it's to drive our cars, or to power our homes and businesses.

Global warming is driven by the "greenhouse effect," a natural phenomenon essential to life as we know it. Water vapor, carbon dioxide and other gases in the Earth's atmosphere act like a blanket over the Earth, absorbing some of the heat from the sunlight-warmed surface of the planet instead of allowing it to escape into space. Increasing the amount of these gases, often referred to as "carbon emissions," in the atmosphere essentially makes the blanket thicker—trapping excess heat around the globe.

The impacts are much broader and more complex than a simple increase in temperature, however. Global warming is accompanied by changes in precipitation patterns, increased frequency and intensity of storms, wildfires, droughts, floods and rising sea levels.

TAKE ACTION TODAY! Find out more: www.portlandclimateaction.org

CLIMATE-FRIENDLY ACTIONS YOU CAN TAKE AT HOME

TOGETHER WE CAN MAKE A DIFFERENCE!

TAKE ACTION TODAY!	NEXT STEPS	START PLANNING FOR CHANGE
<p>TAKE ACTION TODAY!</p> <p>FACT: 10 percent of the energy that we use at home comes from solar panels. You can get your household on the right track.</p> <p>Save energy and costs: Replace incandescent light bulbs with efficient compact fluorescent light bulbs (CFLs). www.thereadings.com</p> <p>Plug your microwave, stereo, chargers, television and computer equipment into power strips that cut the electricity when not in use.</p> <p>Keep your home cooler in the winter: Get "R" blankets, draft stopping mats from Home Depot, and warmer in the summer. www.homedepot.com</p> <p>Do simple weatherization by sealing cracks and leaks around roofs, windows, doors and windows.</p>	<p>Set up a free home energy review with Energy Trust of Oregon: www.energystreet.org</p> <p>Buy clean energy from your utility: www.portlandpower.com, Pacific Power: 1-800-969-3177 www.portlandpower.com</p> <p>Talk and monitor your home's energy use: www.energystreet.org, www.energystreet.org</p>	<p>Fully insulate your home and hot water tank: www.chronicle.com/energy/insulation</p> <p>Reduce your furnace, water heater and home appliances with ENERGY STAR: models that qualify for Oregon tax credits: www.energystreet.org</p> <p>When planning a home renovation project, call the Green Building Hotline for free expert advice: www.greenbuilding.com</p> <p>Local solar water heating or a solar electric system on your home: 1-877-546-8769 www.solarinoregon.org</p>
<p>Maintain your car properly: Inflate tires and keep it tuned up for efficient driving.</p> <p>Combine several errands into one trip by planning ahead, making a list, using store hours, spreading your appointments and doing one-stop shopping: www.do-it-all.com</p>	<p>40 percent of all Portland Trips are under 15 miles. Switch at least one of your destination trips to walking, transit, carpooling or biking. Find a partner at: www.bikeandroll.com and www.carpool.com</p> <p>Track your monthly driving mileage: Make a goal to reduce your mileage by a specific percentage.</p>	<p>Buy the most fuel-efficient vehicle that meets your needs.</p> <p>If your household has more than one car, try to alternate a car and borrow or share a second vehicle when you need one.</p> <p>Planning to move? Consider neighborhoods with daily services within walking distance: www.walking.com</p>
<p>Recycle paper: recycle all paper, metal and glass, as well as yogurt tubs and other plastics accepted at curbside: 503-822-7222 www.portlandrecycle.com</p> <p>Recycle non-recyclable items at a food depot: 503-234-8100 www.oregonrecycles.com</p> <p>Paper or plastic? No thanks! Take reusable bags with you every time you're shopping.</p>	<p>Compost food scraps in your backyard: www.oregonrecycles.com</p> <p>Stop local yard neighborhood cleanups and keep your debris in Portland: www.portlandcleaner.com</p> <p>Repair and reuse durable items.</p>	<p>Be a smart consumer:</p> <ul style="list-style-type: none"> • Make a list. • Check off your items that can be reused, purchased used or borrowed instead. • Buy long-lasting, durable and reusable goods.
<p>Make a effort to reduce driving in traffic: www.oregonrecycles.com</p> <p>Look for:</p> <ul style="list-style-type: none"> • Locally produced and organic foods. 	<p>Buy responsibly produced and purchased:</p> <ul style="list-style-type: none"> • Look for locally produced and organic foods. 	<p>Plant a vegetable garden and fun fruit and berry trees: www.portlandclimate.com, www.portlandclimate.com</p> <p>Portland Public and Recreation, Community Gardens: 503-822-8102 www.portlandclimate.com</p>

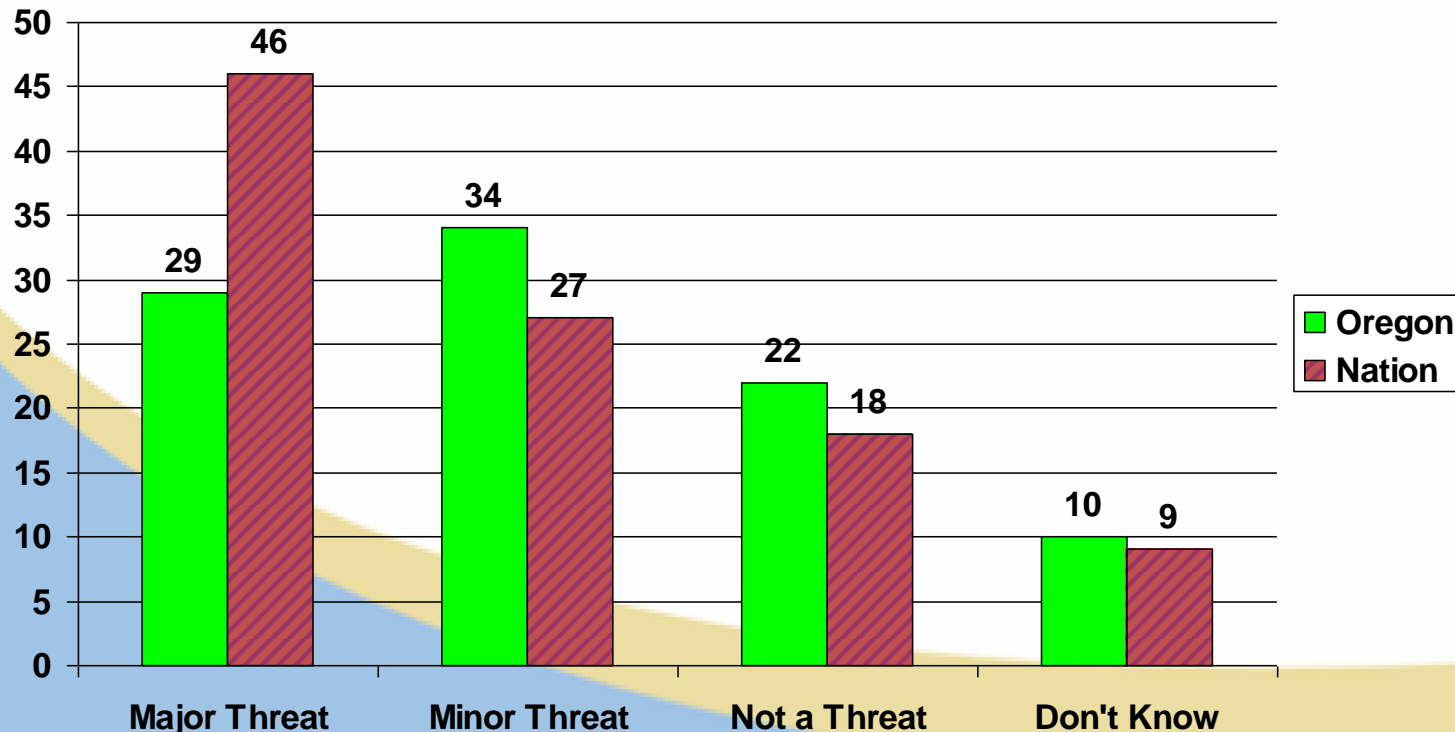
www.portlandclimateaction.org

And....Policy Interactive

Food for thought

“Looking ahead 50 years from today, do you think global warming will be a major threat to human life on earth, a minor threat, or not a threat?”
(Oregon & USA Compared)

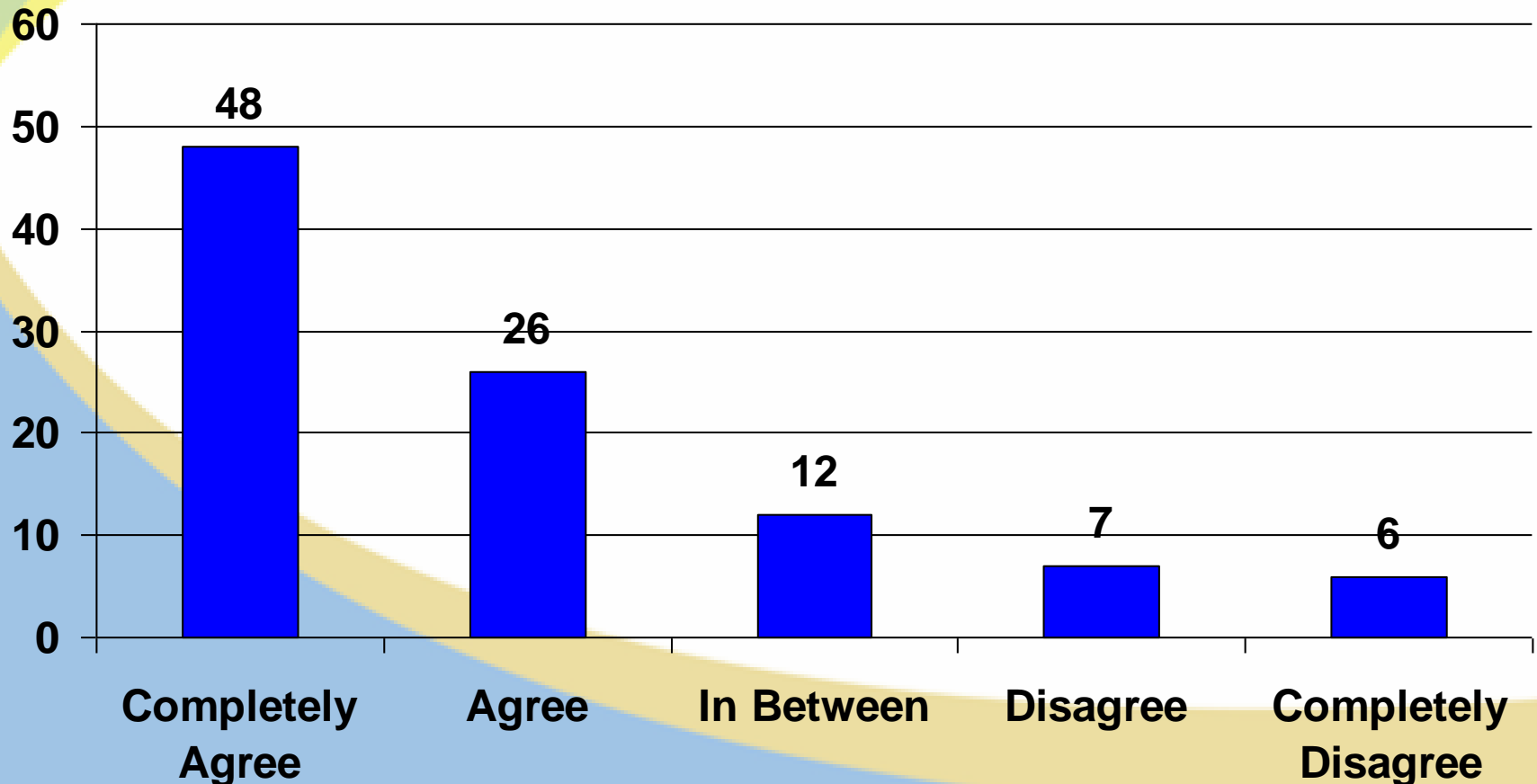
PI in various solid colors April 2008 n=400; Hatched Bars From Princeton Research Assoc. Aug 1 2007 USA n=1002



Food for thought

“Our country would be a better place if we all consumed less.”

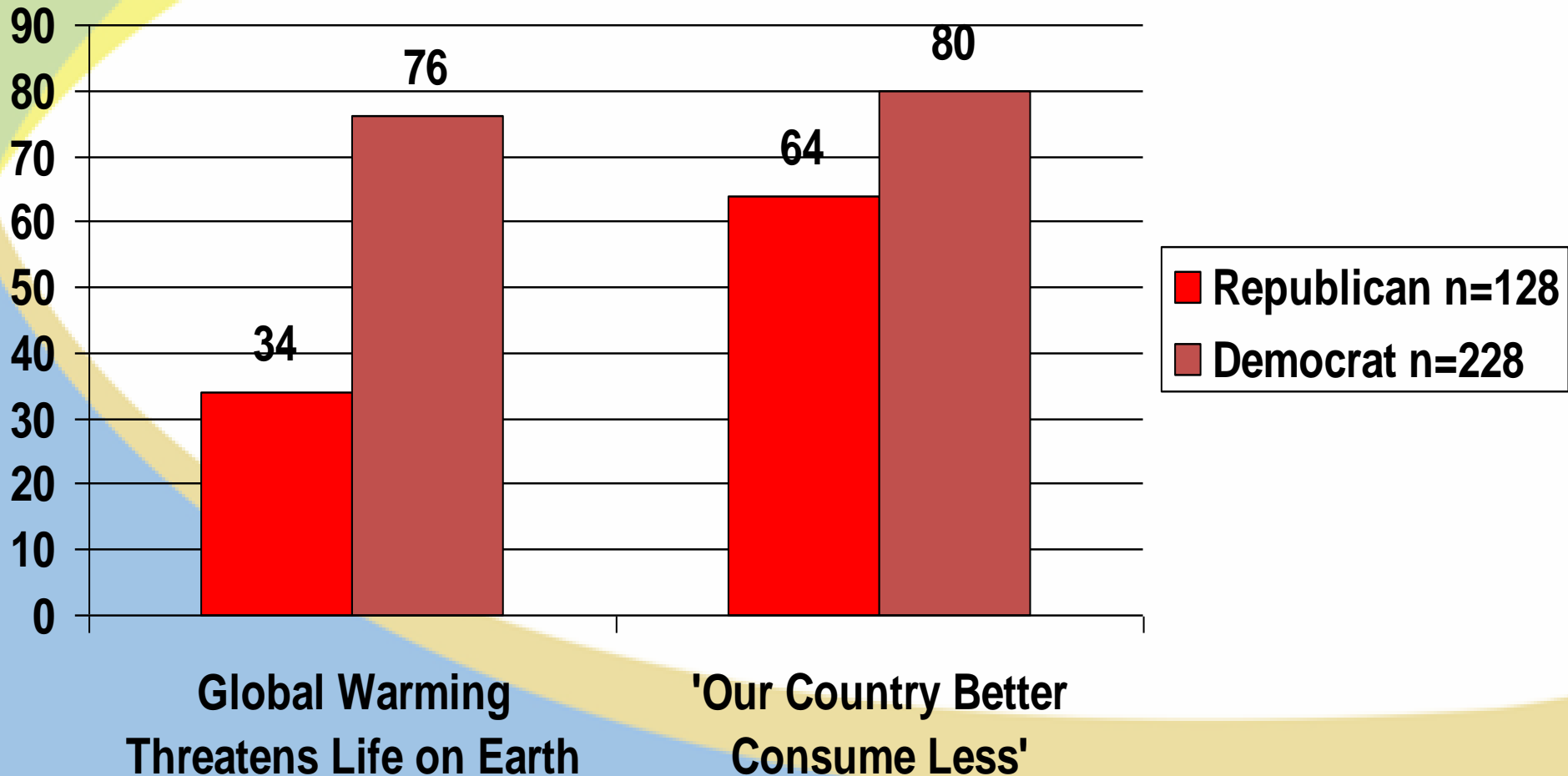
(V1A) (PI November 2008 n=400)



Food for thought

Political Party Ideology Comparison Compare Global Warming / Consume less

PI November 2008 n=400 V4A/V1A (expressed as % Agreement of Sector)



Eugene Climate and Energy Action Plan

