

# Oregon's Roadmap to 2020

<http://www.keeporegoncool.org/content/roadmap-2020>

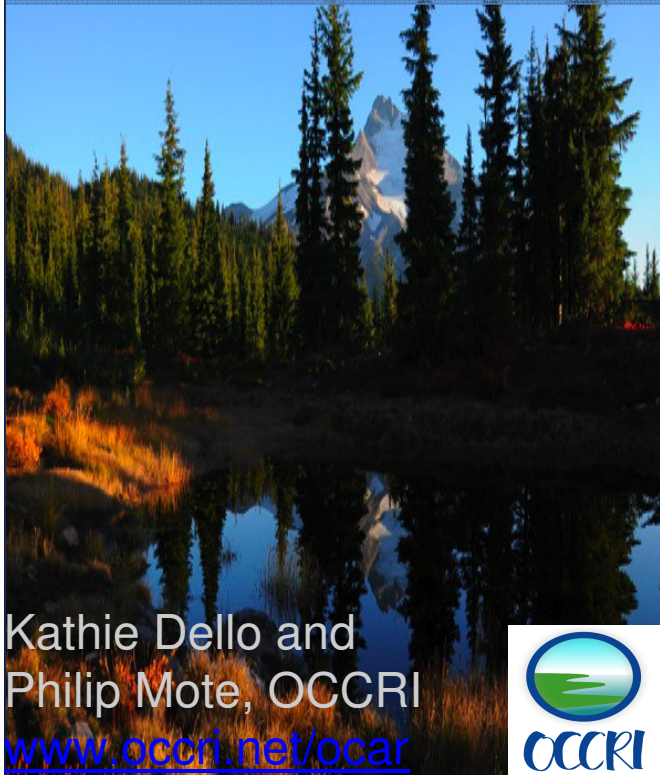


# Keep Oregon Cool

Oregon Global Warming Commission

# State of Oregon Climate Initiatives 2010-2011

## Oregon Climate Assessment Report



Kathie Dello and  
Philip Mote, OCCRI  
[www.occri.net/ocar](http://www.occri.net/ocar)



## The Oregon Climate Change Adaptation Framework

## Summary of Key Findings and Recommendations



## Oregon Global Warming Commission

## Roadmap to 2020



# Oregon communities act on climate

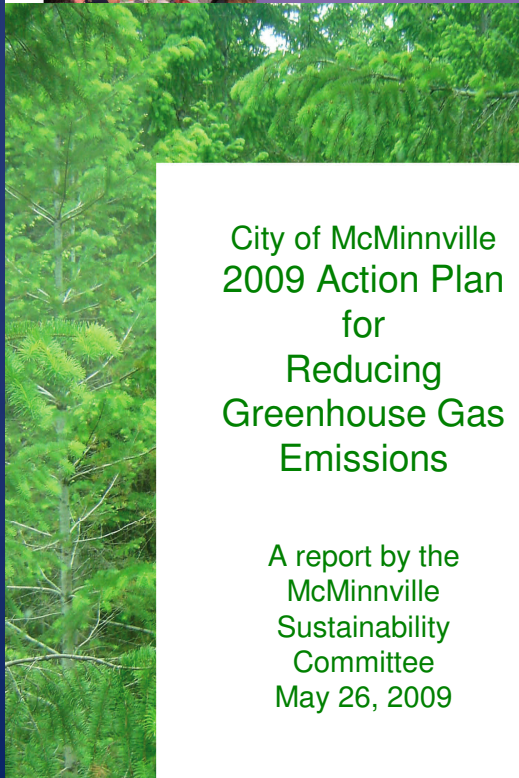
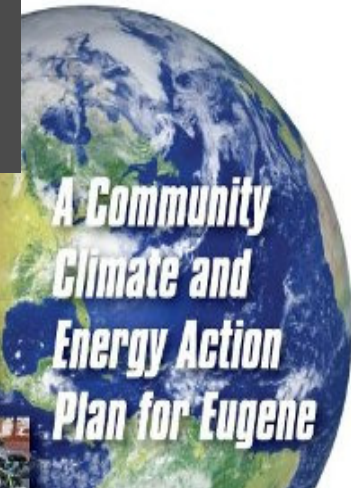


Corvallis



Community Sustainability  
Final Action Plan

**BEND2030**  
vision builds

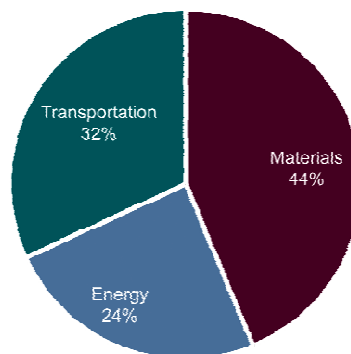


City of McMinnville  
2009 Action Plan  
for  
Reducing  
Greenhouse Gas  
Emissions

A report by the  
McMinnville  
Sustainability  
Committee  
May 26, 2009

## Southern Oregon Regional Greenhouse Gas Inventory

The carbon footprint of  
Jackson and Josephine



PORTLAND/MULTNOMAH  
COUNTY

**CLIMATE  
ACTION  
PLAN  
2009**

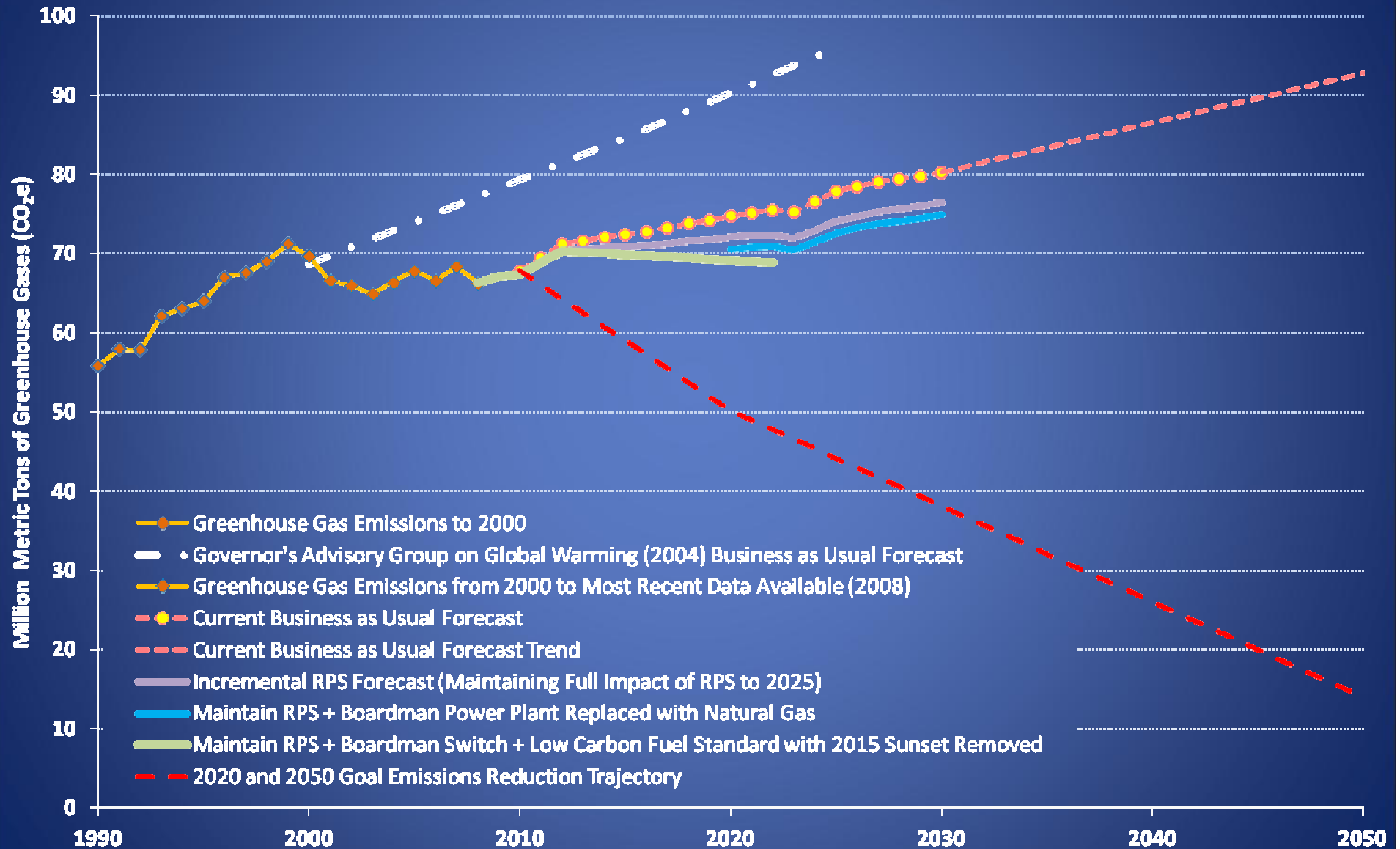


City of Portland, Oregon  
Planning and Sustainability

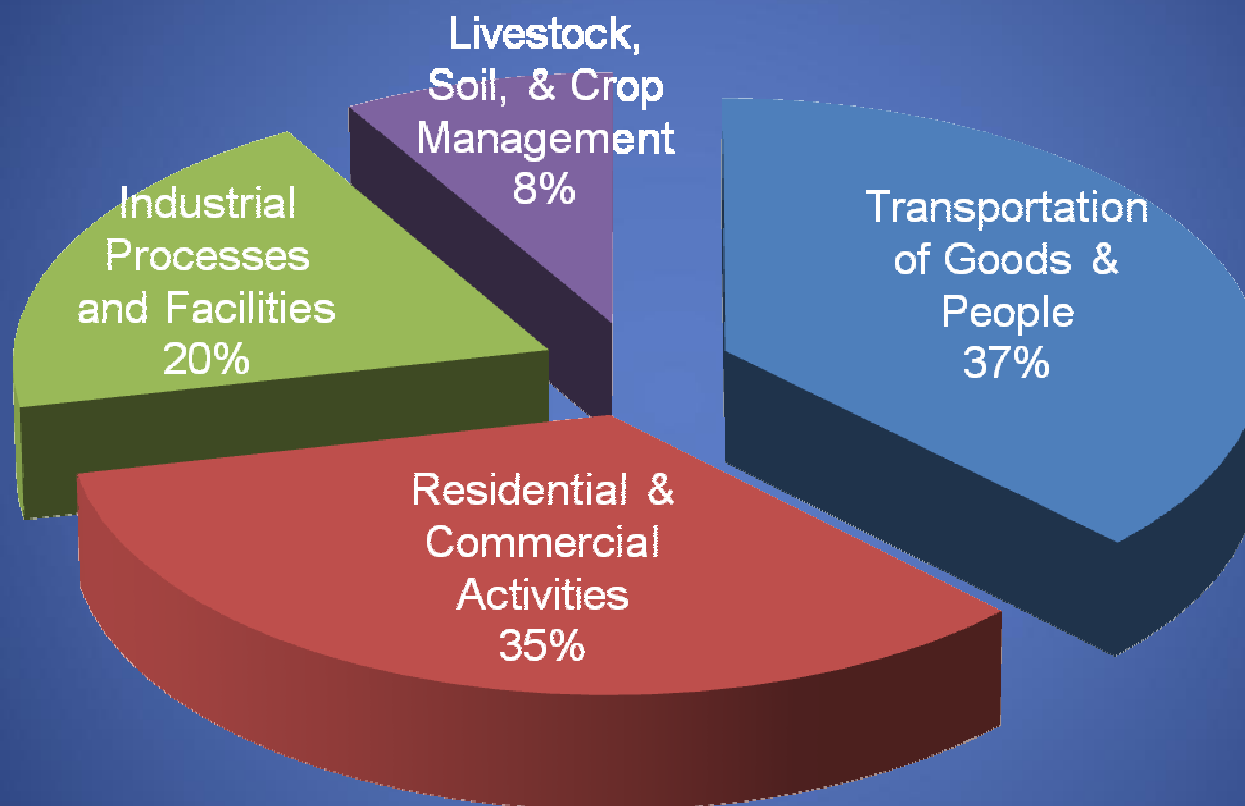


Multnomah County  
Planning and Sustainability

# Progress Toward Oregon's Greenhouse Gas Reduction Goals



# Oregon Greenhouse Gas Emissions by Key Sector in 2008



# Roadmap to 2020 – Seven Propositions

*Embed carbon in the planning process*

*Leverage efficiency of cities*

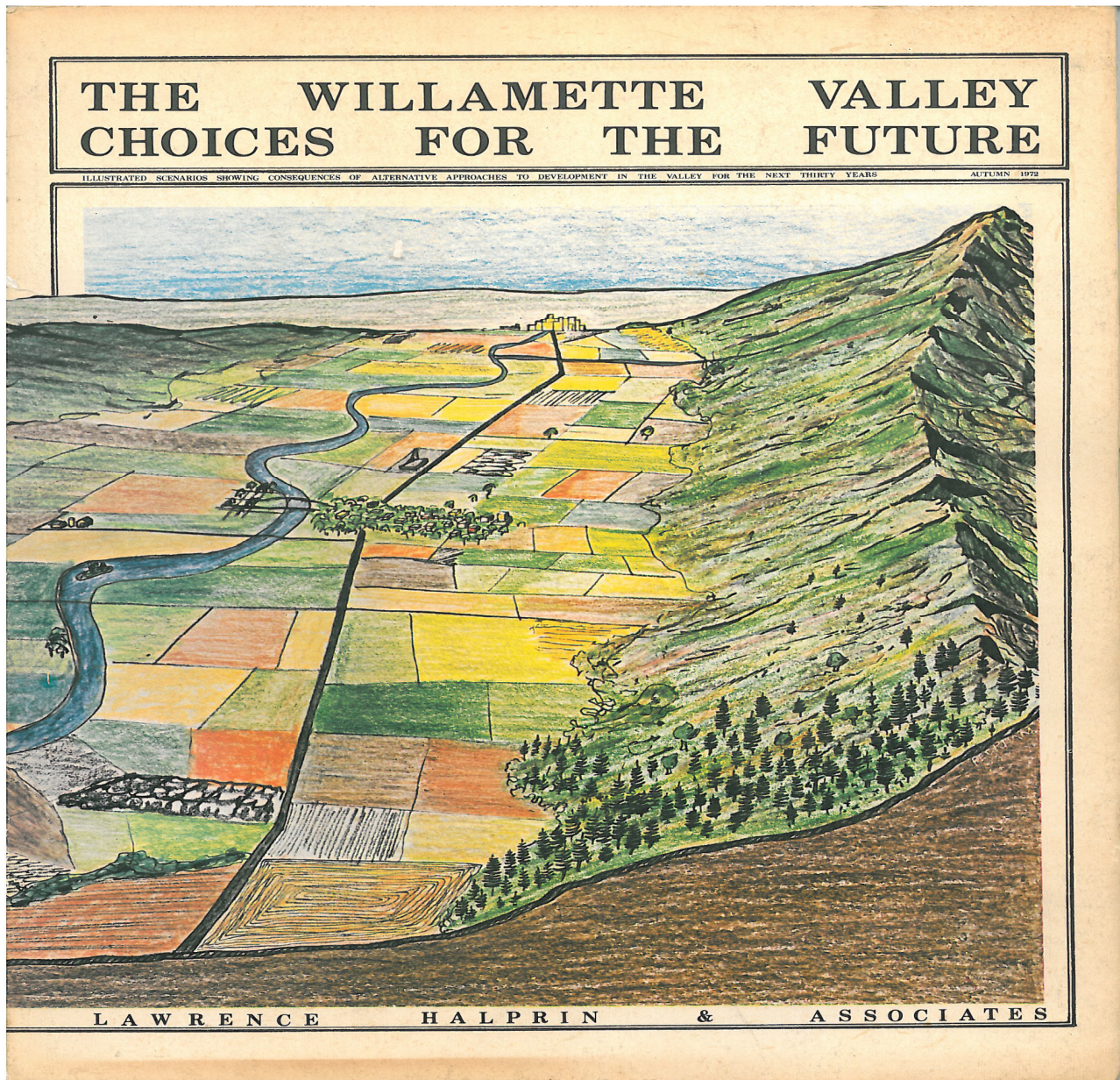
*Leverage efficiency of buildings*

*Shift transportation fuels*

*Ramp down coal emissions*

*Capture carbon across the board*

*Embed carbon in energy prices*



*Why couldn't we  
rethink how we  
plan our  
communities,  
industrial parks,  
roads and  
transit, energy  
and water  
systems, so  
carbon  
makes a  
difference?*

Governor Tom McCall -- 1972

## Roadmap to 2020 – Propositions

### ***Embed carbon in the planning process***

- *State and local transportation/land use plans should target 2020\* greenhouse gas goals*
- *Transportation “Least Cost Planning”*
- OR electric/gas utility resource plans should meet GHG goals
- “Consumption-based” GHG Inventory

\* = about 30% below today's levels

*Why couldn't we design and build cities that are energy and carbon efficient?*



Roadmap to 2020 – Propositions

## ***Leverage Efficiency of Cities***

- Stay within present UGB's (larger cities)
- Redesign neighborhoods for walking access to schools, services, shopping, transit
- *More & more accessible public transit*
- *Shift longer freight hauls from truck to rail*
- *Smarter roadways; priority to emergency, freight, multi-passenger users*

*Why couldn't  
we create  
tomorrow's  
buildings, and  
rebuild  
today's, for  
superior  
energy and  
carbon  
performance?*

[Portland, OR Health Sciences  
solar south façade]

OHSU CENTER FOR HEALTH



## Roadmap to 2020 – Propositions

### ***Leverage Efficiency of Buildings***

- New buildings: “near-zero-emissions” designs
- Existing buildings: Retrofit building energy code applied to existing buildings at point-of-purchase
- Smart Building systems for energy, water efficiency
- Fuel-blind space/water heating (gas + electric)

*Why couldn't we shake the oil habit, and move full speed ahead to electric and other new vehicles and fuels?*



## Roadmap to 2020 – Propositions

# ***Shift Transportation Fuels***

- *Implement Low Carbon Fuel Standard*
- *Fleet turnover to low-carbon vehicles at double the national rate*
- *Deploy public, private recharging infrastructure*
- *Integrate plug-in EV's with Smart Grid to add vehicle flexibility, grid energy storage (V2G)*
- *Natural gas, biofuels, other low carbon options for bus/distribution fleets, freight, air?*

*Why couldn't we  
shake the coal habit,  
and move rapidly to  
wind, solar, biofuels,  
gas, and scaled-up  
energy efficiency?*

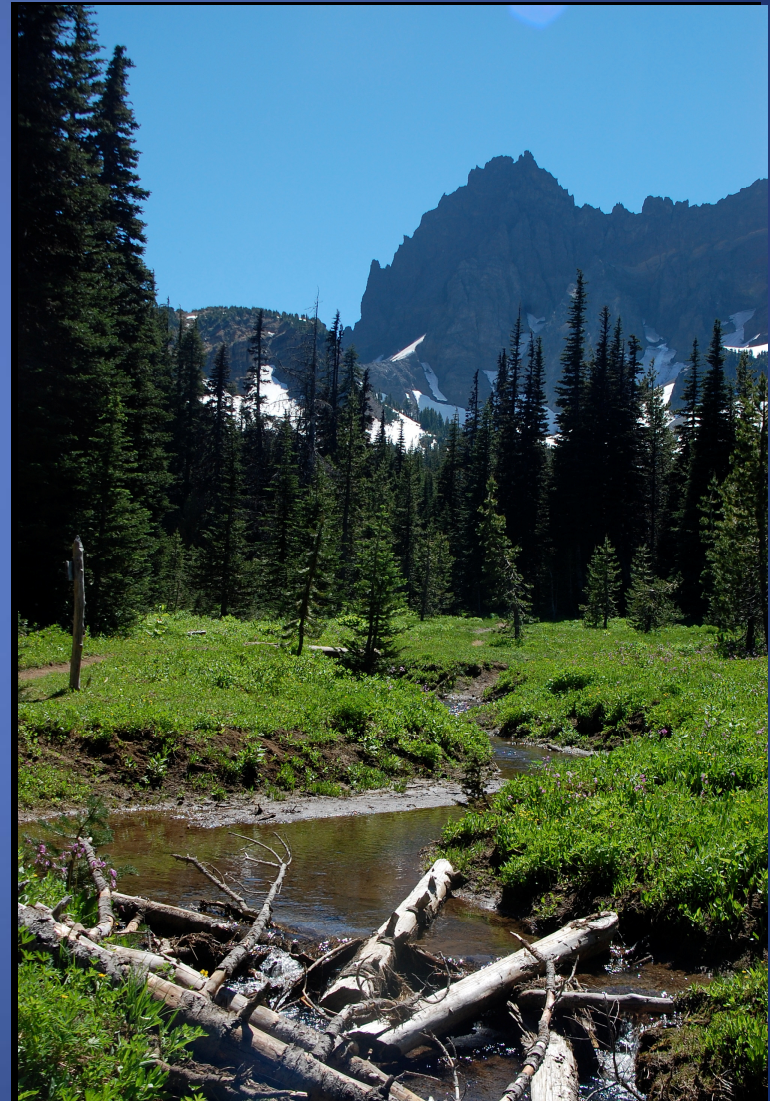


Roadmap to 2020 – Propositions

## ***Ramp Down Coal; Ramp Up Efficiency, Renewables***

- “Substantial reductions” in coal generation by 2020 and thereafter
- Replace with efficiency + renewables + gas
- New transmission
- Integrate generation with “smarter” homes, businesses and electric vehicles

*Where else can we go digging for carbon reductions? Industry? Farms? Forests? Stuff?*



## Roadmap to 2020 – Propositions

# ***Capture Carbon Across the Board***

- Align forest practices for conservation, fire management, carbon capture/storage
- Align agricultural practices (1) to reduce soil disturbance and fertilizer overuse; (2) to capture and use methane
- Support industrial efficiencies with access to finance, technical support
- Reduce, reuse, recycle “stuff”

*Can we imagine taxing carbon  
inefficiency instead of taxing income  
or property values?*



## Roadmap to 2020 – Propositions

### ***Embed carbon in energy prices***

- Eliminate gas tax; replace with fee for vehicle efficiency X miles traveled
- Charge extra for using roadways at choke points to reduce highway congestion
- Charge for parking at workplaces (all parking?)
- Link property taxation to building efficiency, not market value

# Roadmap to 2020 / Related State GHG Initiatives

1. Governor's Ten Year Energy Strategy
2. Boardman Replacement/PGE IRP
3. Statewide Transportation Strategy (STS) for GHG Reductions (ODOT)
4. Transportation Least Cost Planning (ODOT)
5. Urban Areas GHG Reduction Goals, Scenario Planning, Toolkit (DLCD/ODOT)
6. Low Carbon Fuel Standards (ODEQ)

# CLIMATE SUMMIT

WHAT IF IT'S  
A BIG HOAX AND  
WE CREATE A BETTER  
WORLD FOR NOTHING?

- ENERGY INDEPENDENCE
- PRESERVE RAINFORESTS
- SUSTAINABILITY
- GREEN JOBS
- LIVABLE CITIES
- RENEWABLES
- CLEAN WATER, AIR
- HEALTHY CHILDREN
- ETC. ETC.

Read Article





# KeepOregonCool

Oregon Global Warming Commission

[www.KeepOregonCool.org](http://www.KeepOregonCool.org)