

Oregon's Roadmap to 2020

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



State of Oregon Climate Initiatives

2010-2011

Oregon Climate Assessment Report



Kathie Dello and
Philip Mote, OCCRI
www.occri.net/ocar



The Oregon Climate Change Adaptation Framework

Summary of Key Findings and Recommendations



Oregon
Global
Warming
Commission

Roadmap to 2020



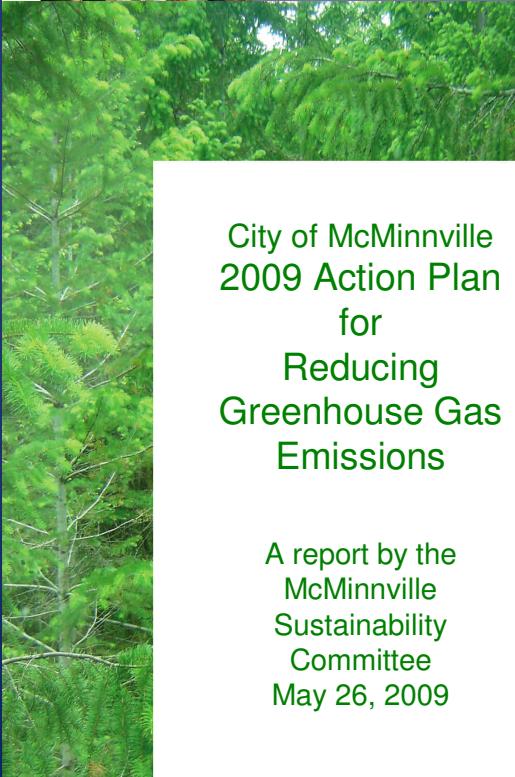
Oregon communities act on climate



Corvallis



Community Sustainable
Final Action Plan

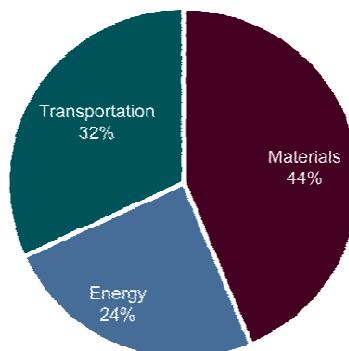


City of McMinnville
2009 Action Plan
for
Reducing
Greenhouse Gas
Emissions

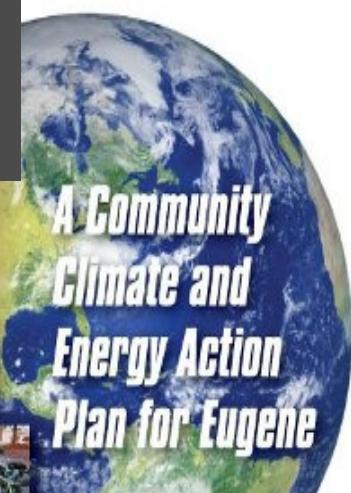
A report by the
McMinnville
Sustainability
Committee
May 26, 2009

Southern Oregon Regional Greenhouse Gas Inventory

The carbon footprint of
Jackson and Josephine



BEND2030
vision builds



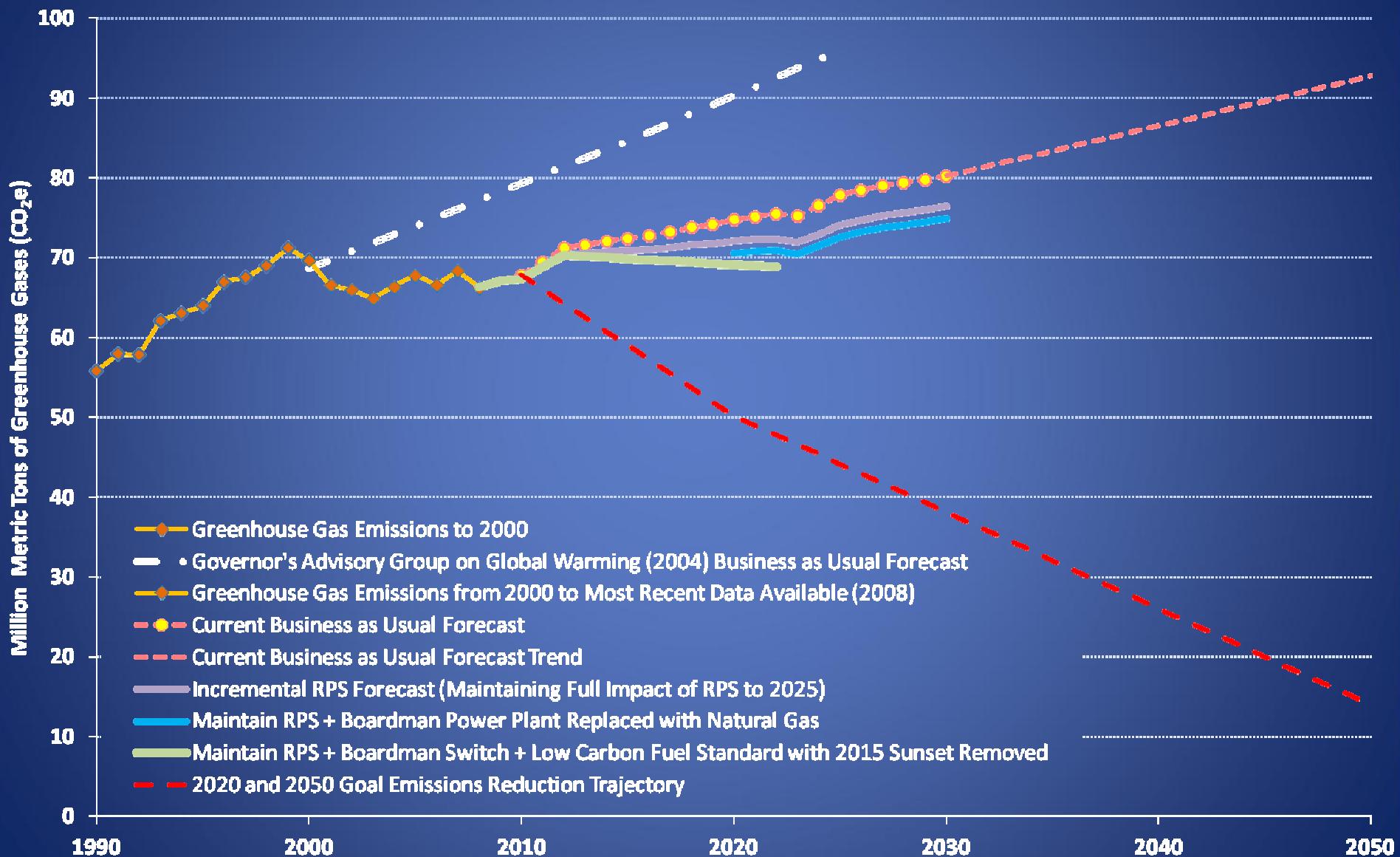
PORTLAND/MULTNOMAH
COUNTY

**CLIMATE
ACTION
PLAN
2009**

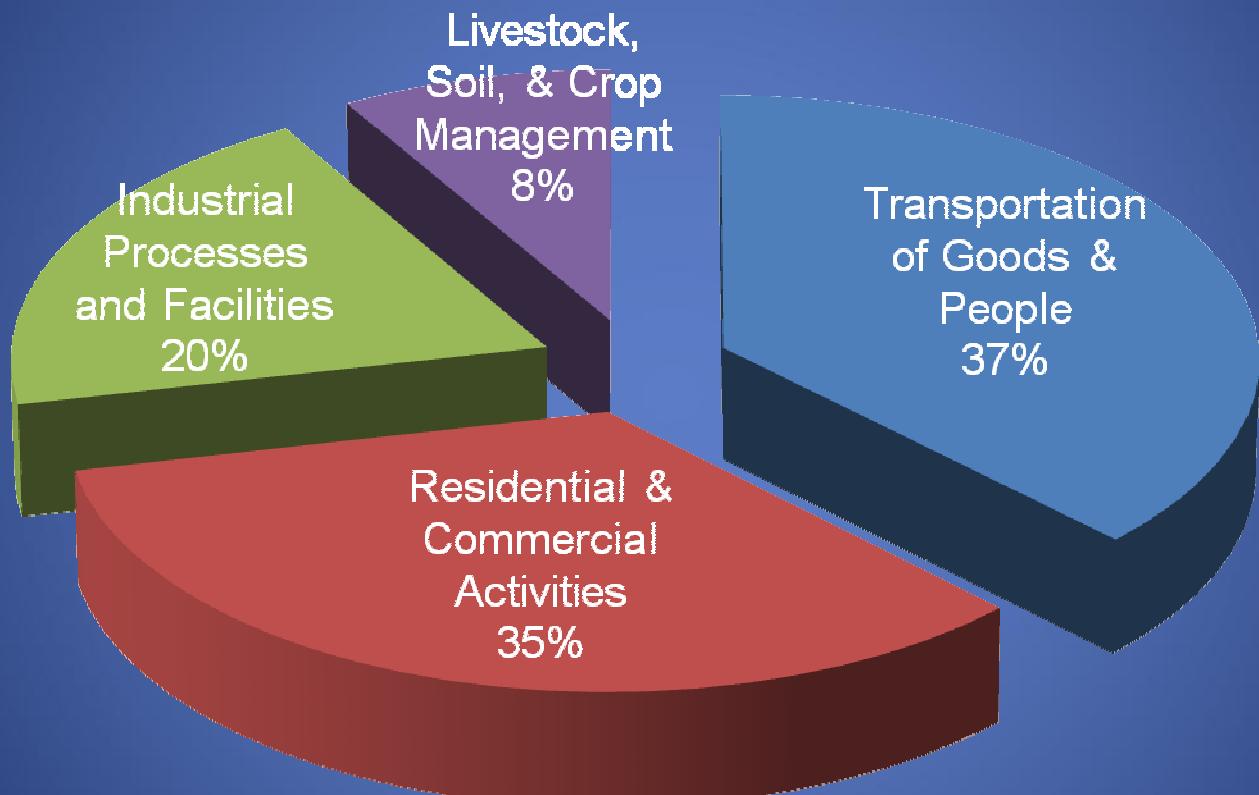
City of Portland
Planning and Sustainability



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

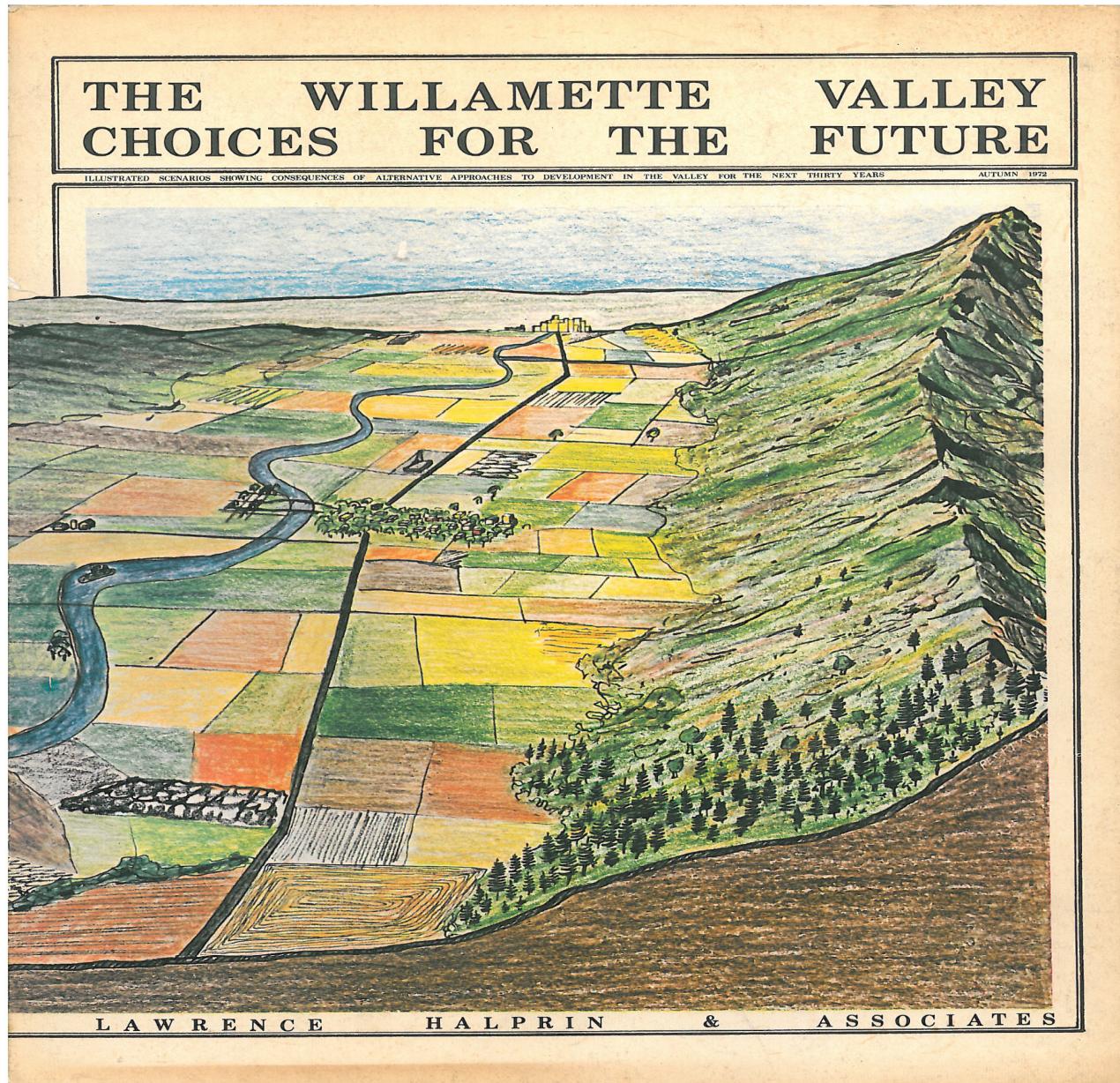
Leverage efficiency of buildings

Shift transportation fuels

Ramp down coal emissions

Capture carbon across the board

Embed carbon in energy prices



Governor Tom McCall -- 1972

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

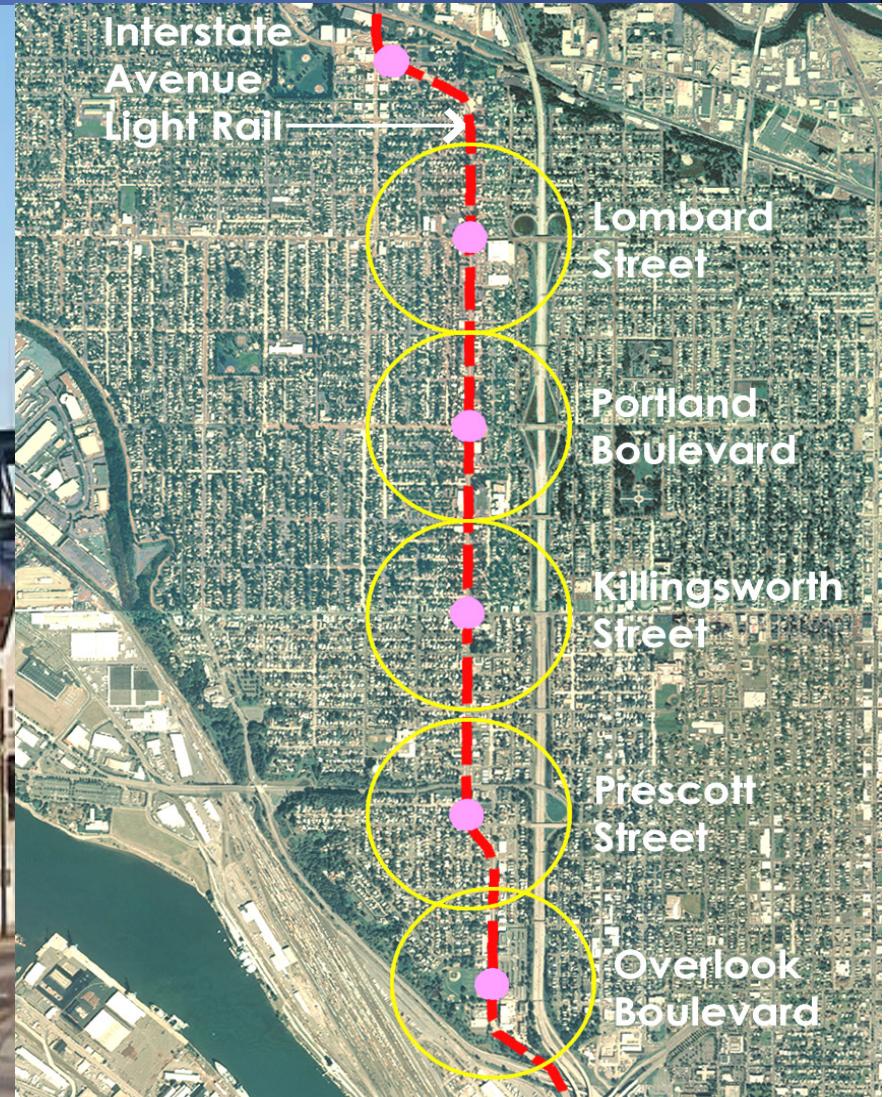
Roadmap to 2020 – Propositions

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?*

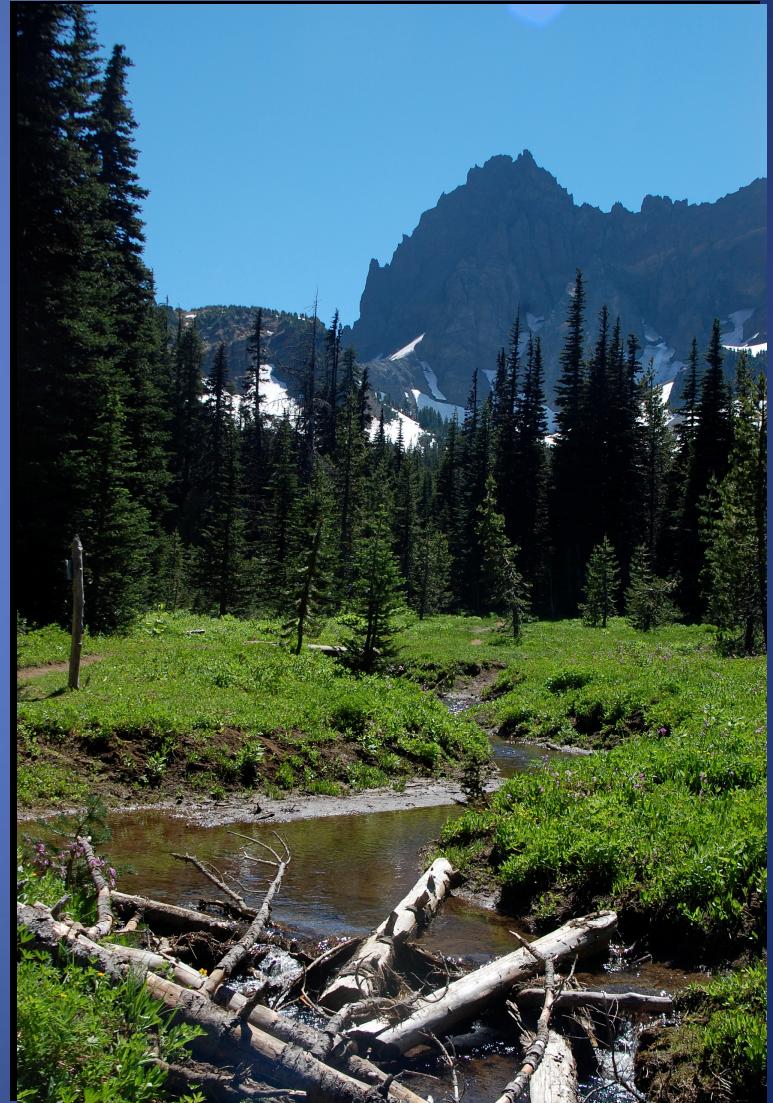


Roadmap to 2020 – Propositions

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

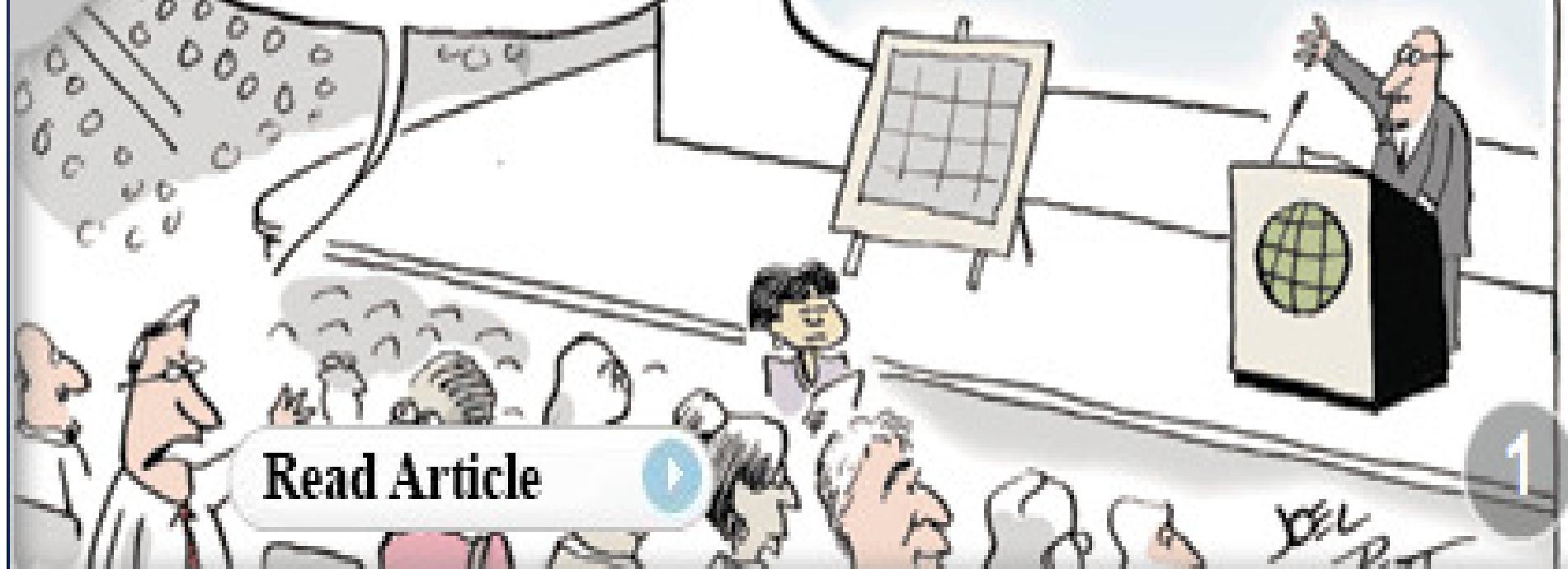
Roadmap to 2020 / Related State GHG Initiatives

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?

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





www.KeepOregonCool.org