

# WASHINGTON STATE DEPARTMENT OF COMMERCE

## Washington Energy Policies and the 25 by 25 Agenda

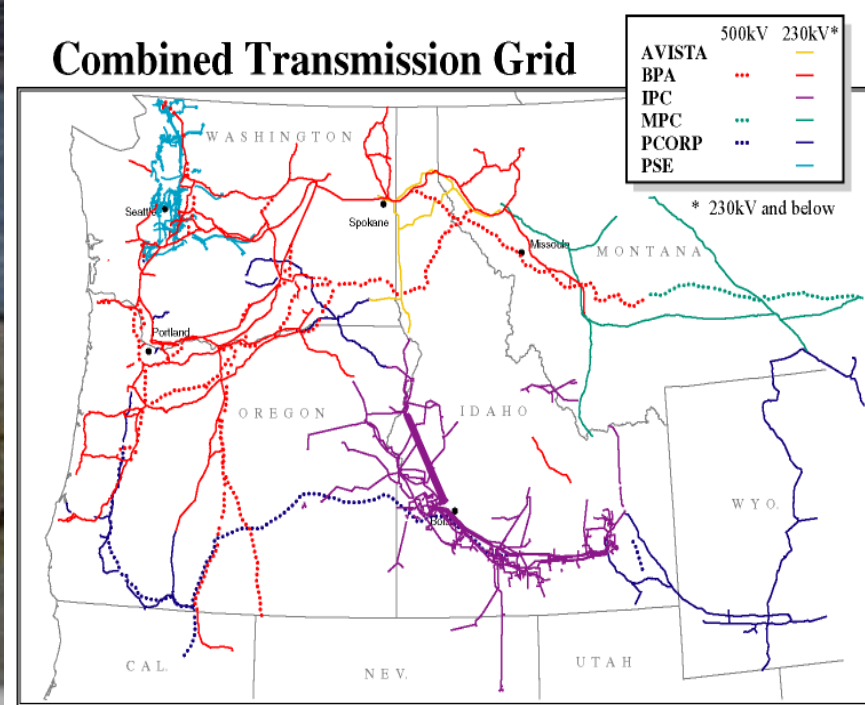
September 24, 2009



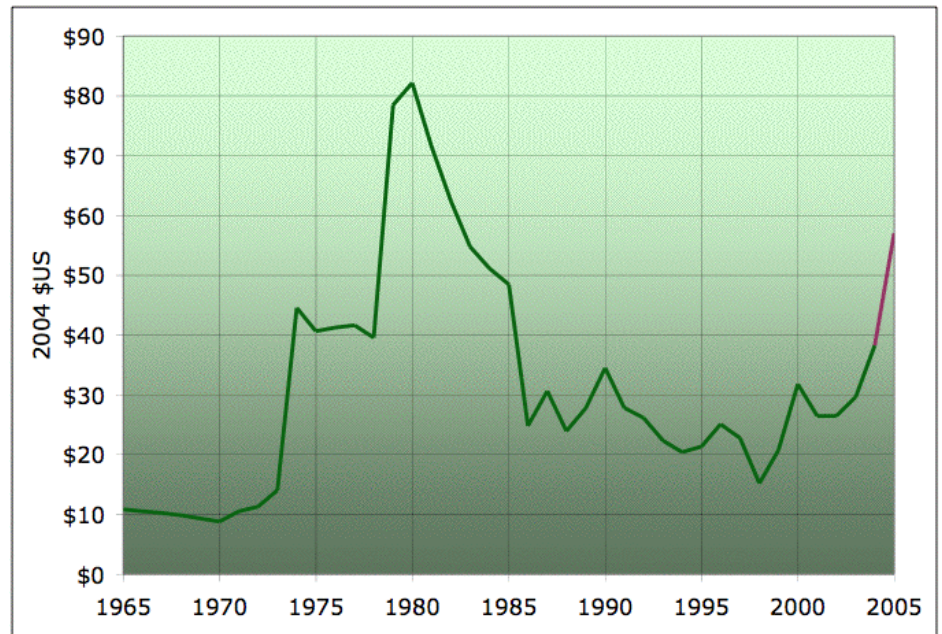
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# The Northwest's First Renewable "Revolution"

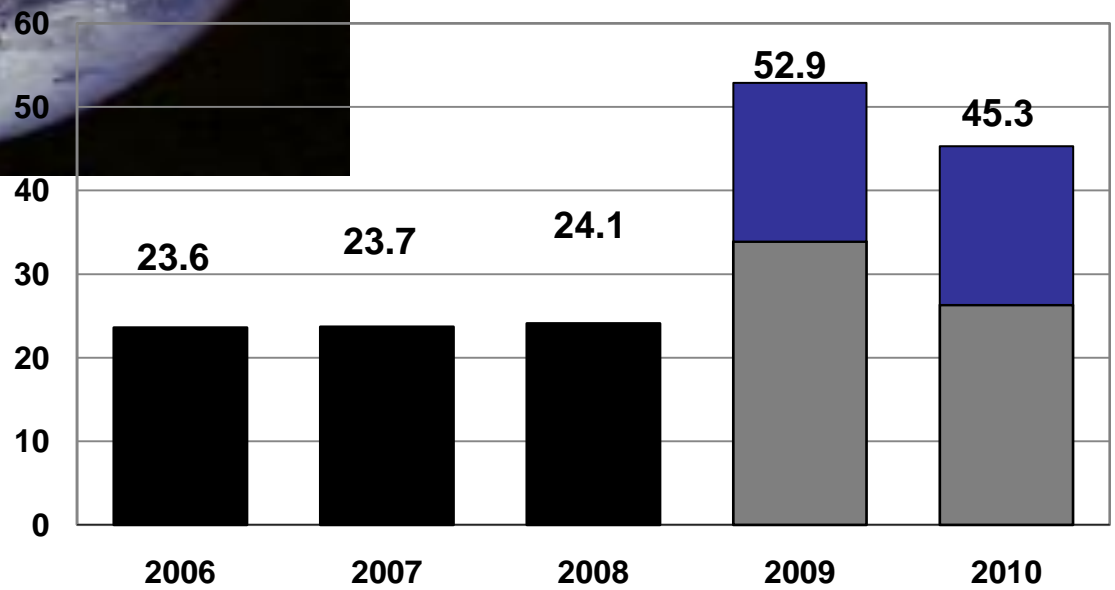






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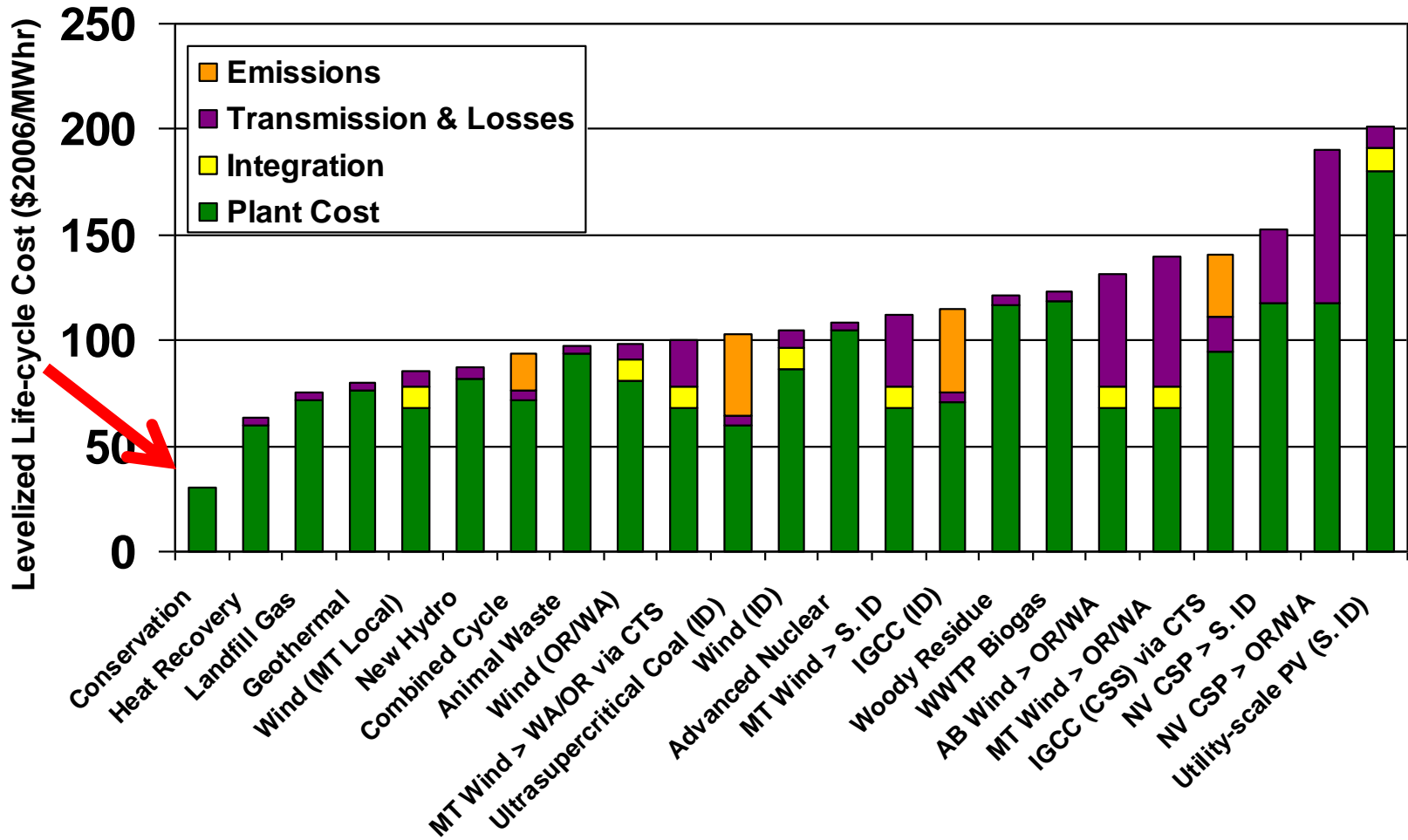
# Climate Change



***Energy efficiency always  
should be America's highest-  
priority energy resource and  
the energy option of first  
choice.***



# Resource Costs: Long Term

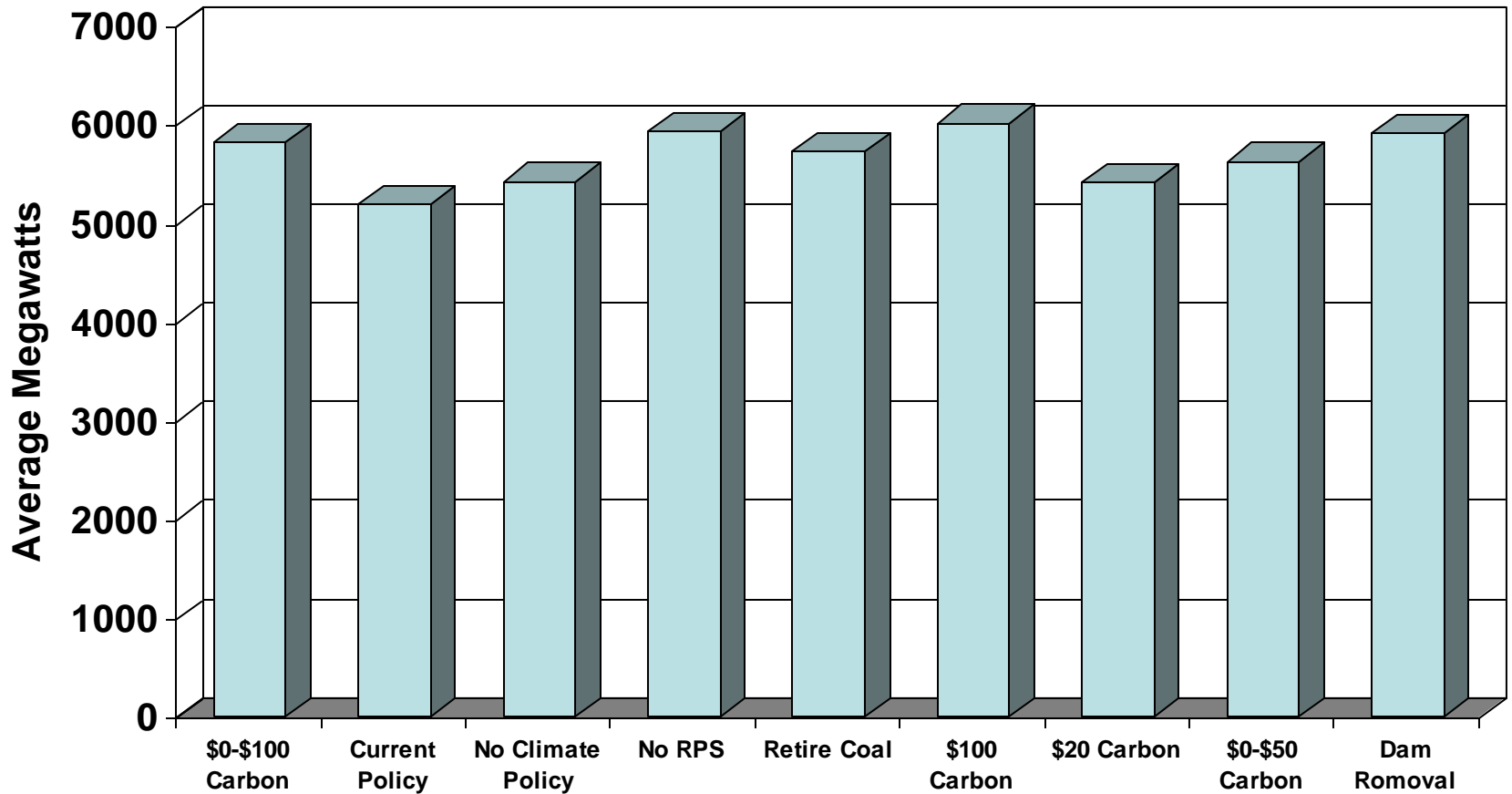


Source: NW Power and Conservation Council - Draft 6<sup>th</sup> Plan



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# Conservation is Cost-effective Under Many Different Future Scenarios



Source: NW Power and Conservation Council - Draft 6<sup>th</sup> Plan



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# State Targets - Reduce Emissions Grow Our Economy

- By 2020 reduce GHG emissions to 1990 levels
- By 2035 reduce emissions to 25% below 1990 levels
- By 2050 reduce emissions to 50% below 1990 levels
- By 2020 increase the number of clean energy sector jobs to 25,000 from the 8,400 jobs in 2004
- By 2020 reduce expenditures by 20% on fuel imported into the state

***Have agriculture and forestry play a leadership role in seizing energy efficiency opportunities.***



# Energy Efficiency in Northwest Agriculture

- Washington & Oregon collaboration: state and federal agencies, research institutions, dairy federations
- \$500,000 in federal stimulus funds
- Quantify on-farm energy use and offer practical energy conservation and efficiency recommendations
- Comprehensive approach integrates cropping systems, fuel usage, fertilizer and irrigation
- Funding to address both dairy and dryland farming, including no-till



# Washington State Bioenergy R&D Investments

- WSU/PNL Bioproducts, Sciences & Engineering Lab
- WSU Applied Research on bioenergy cropping systems, innovative digester design, and oilseed coproducts
- WSU and UW assessments of biofuels markets and wood-based energy obstacles and opportunities
- Organic Waste-to-Resources fund
- Western WA University converting digester biogas to CNG for transport.
- Pulp and paper mill energy efficiency assessment



# Washington State Project Funding

- Over \$18 million in Energy Freedom Program loans and grants for bioenergy infrastructure
- \$38.5 million in federal stimulus funding for efficiency, renewables and innovative clean tech projects
- Community Economic Revitalization Board funds for allied infrastructure development





# Renewable Energy Tax Incentives

- Renewable energy generation equipment
- Alternative fuel vehicle and biofuel sales
- Wood-based and alcohol fuel production
- Forest-derived biomass used for bioenergy
- Digester construction and operation



# Biofuel Market Expansion

- WSDOT public-private partnership study on alternative fuel refueling along I-5
- State clean vehicle purchase requirements
- B20 for state vehicles and vessels
- Government fleet use of electricity and biofuels: 40% by 2013, “extent practicable” by 2015
- RFS adopted but needs work, exploring LCFS options



# What We Need to Do

1. We need to make the Recovery Act wildly successful
2. We need to maintain the momentum for climate action (Waxman/Markey)
3. We need to retain a large vision for our energy future
4. We need to communicate effectively with every citizen
5. We need to use the states as the incubators of change



# Contact Information

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