



WESTERN GOVERNORS' ASSOCIATION

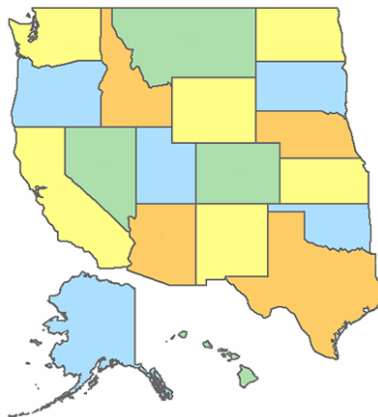
Clean Energy & Climate Change Initiatives

WESTCARB Annual Business Meeting
Nov. 8-9, 2006
Phoenix, Arizona

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Funding Support:
Southwest Regional Partnership on Carbon Sequestration

Western Governors' Association



- Represent 19 States and 3 U.S.-Flag Pacific Islands
- Address policy and governance issues; advance the role of states in the federal system
- Develop and carry out programs in the areas of natural resources, the environment, human services, economic development, international relations and state governance.
- Chair Gov. Rounds (SD) & Vice Chair Gov. Freudenthal (Wyo.)

Clean Energy/Climate Change Initiatives

- **Carbon Sequestration Partnerships**
- **Clean and Diversified Energy**
- **Global Climate Change Initiative**
- **Western Regional Air Partnership (WRAP)**
- **Western Renewable Energy Generation Information System (WREGIS)**

Carbon Sequestration Partnerships

- **WGA is assisting Western regional carbon sequestration partnerships with outreach**
 - Share updates on a quarterly basis to our Staff Council, governors policy advisors
 - At our 2004 Energy Summit had poster session featuring the partnerships
 - Most recently invited Partnerships to discuss their work with state environmental and air quality directors at a WRAP meeting.

Carbon Sequestration Partnerships

World Resources Institute

- WGA is working with other invited stakeholders on issues related to liability and regulatory aspects of CCS

Columbia University

- Global Roundtable on Climate Change
WGA invited to participate on international roundtable looking at ways to advance CCS
- Lenfest Center for Sustainable Energy
WGA participated in Summit on Coal Technology and Policy
- Gov. Schweitzer of Montana co-hosted

Clean and Diversified Energy

- **In 2004, the Governor's called for the analysis of the necessary policy recommendations that would:**
 - Bring 30,000 megawatts of new, clean energy online by 2015
 - Increase energy efficiency 20% by 2020
 - Meet transmission needs over the next 25 years
- **Governors formed Clean and Diversified Energy Advisory Committee**

Clean and Diversified Energy Initiative

- CDEAC created task forces to develop consensus, incentive- based policies to reach the goals.
- More than 250 stakeholders representing diverse interests participated on task forces for Advanced Coal, Solar, Wind, Geothermal, Biomass, Energy Efficiency and Transmission.
- White papers were also submitted on Hydro, Combined Heat and Power and Natural Gas
- All of the reports and white papers were posted for public comment and reviewed by the appropriate committees.

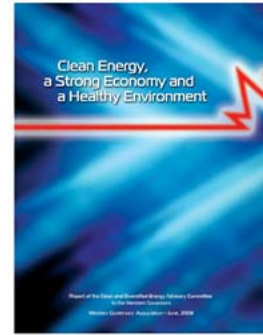
Clean and Diversified Energy



Clean and Diversified Energy

CDEAC Report Accepted by the Governors in June 2006

- Governors' goals can be met or exceeded by 2015 and 2020 deadlines
- Primarily incentive-based recommendations
- Goals do not entail complicated, unpopular changes
- State, regional & federal action needed



Clean and Diversified Energy

Potential Generation Capabilities by 2015

- Advanced Coal – 5,000 megawatts
- Biomass – 10,000 megawatts
- Geothermal – 5,600 megawatts
- Solar – 8,000 megawatts
- Wind – 5,000 to 54,000 megawatts

Potential Energy Efficiency by 2020

- 48,000 megawatts

Clean and Diversified Energy

Governors' Position Related to Fossil Fuels

- **Coal must be part of our clean energy future**
- **New technologies must rapidly move toward zero emissions and carbon capture and sequestration**
- **The West must work towards getting multiple pilot facilities that demonstrate advanced technologies, such as IGCC, located at high altitude and using Western coal**
- **Demonstrate technologies for the capture and storage of carbon**

States Leading the Way

- **WGA is encouraging others to adopt the recommended policies and is tracking progress toward the governors' goals**
 - Gov. Owens (CO) – Signed legislation to encourage IGCC within the state; Xcel Energy has since announced plans to build a 350 MW IGCC plant
 - Gov. Napolitano (AZ) – Issued an executive order on energy efficiency with the aim of reducing GHGs to 2000 levels by 2012
 - Gov. Huntsman (UT) -- Proposed legislation to set a 20% goal for energy efficiency in Utah by 2015
 - Govs. Schwarzenegger (CA) and Freudenthal (WY) signed an MOU on developing IGCC with carbon sequestration and renewable energy in Wyoming
 - Gov. Gregoire (WA) signed legislation that requires state schools and office buildings to be constructed in a manner that will conserve energy and minimize their environmental impact
 - Gov. Schwarzenegger (CA) signed the Million Solar Roofs Legislation in August 2006

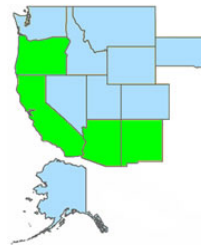
WGA Global Climate Change Resolution

Includes support for:

- Continued research on global climate change
- Carbon sequestration research and implementation
- Cost-effective, market-based policies to reduce greenhouse gases
- Consideration of state and regional GHG programs if/when a national regime is developed
- A voluntary registry to document and track greenhouse gas emissions

Western Regional Air Partnership (WRAP)

- Voluntary association of 15 states, Western tribes, and federal agencies
- Assists Western states and tribes in developing regional haze plans for national parks and wilderness areas - Class I:
 - State regional haze plans due to EPA in December 2007.
- Currently working with 9 states to develop GHG emission inventories and forecasts
 - Final products are expected in early 2007
 - 4 states already have developed inventories



June 2006: Western Governors Adopt Policy Resolution on Global Climate Change

- **“Action is needed to reduce greenhouse gas emissions.”**

- **“Western Governors support local, state, regional, and national programs to reduce anthropogenic greenhouse gases in a manner that:**
 - Is consistent with the findings of scientific research
 - Will not significantly harm the U.S. economy
 - Encourages comparable action by major trading partners and key contributors to global emissions”

Western Regional Air Partnership (WRAP)

- **Participating with other states/regions to evaluate options for a multi-state GHG registry**
 - California and Eastern states are leading the effort
 - Western and Mid-Western states and tribes participating
 - Build on California Climate Action Registry: ensure consistency and avoid multiple or different state registries
 - Goal: Operational by January 2008
 - Policy neutral system - states and tribes opt-in at their discretion

Western Renewable Energy Generation Information System (WREGIS)

- Formed in 2004 as a joint effort between WGA, WRAP, and the California Energy Commission
 - Will issue, track, and verify regional renewable electricity generation and certificates
 - Scheduled to come online in early 2007
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Additional Information

**To learn more about the WGA and these
initiatives or to receive updates, please visit
our Web site**

www.westgov.org
