

US EPA ARCHIVE DOCUMENT



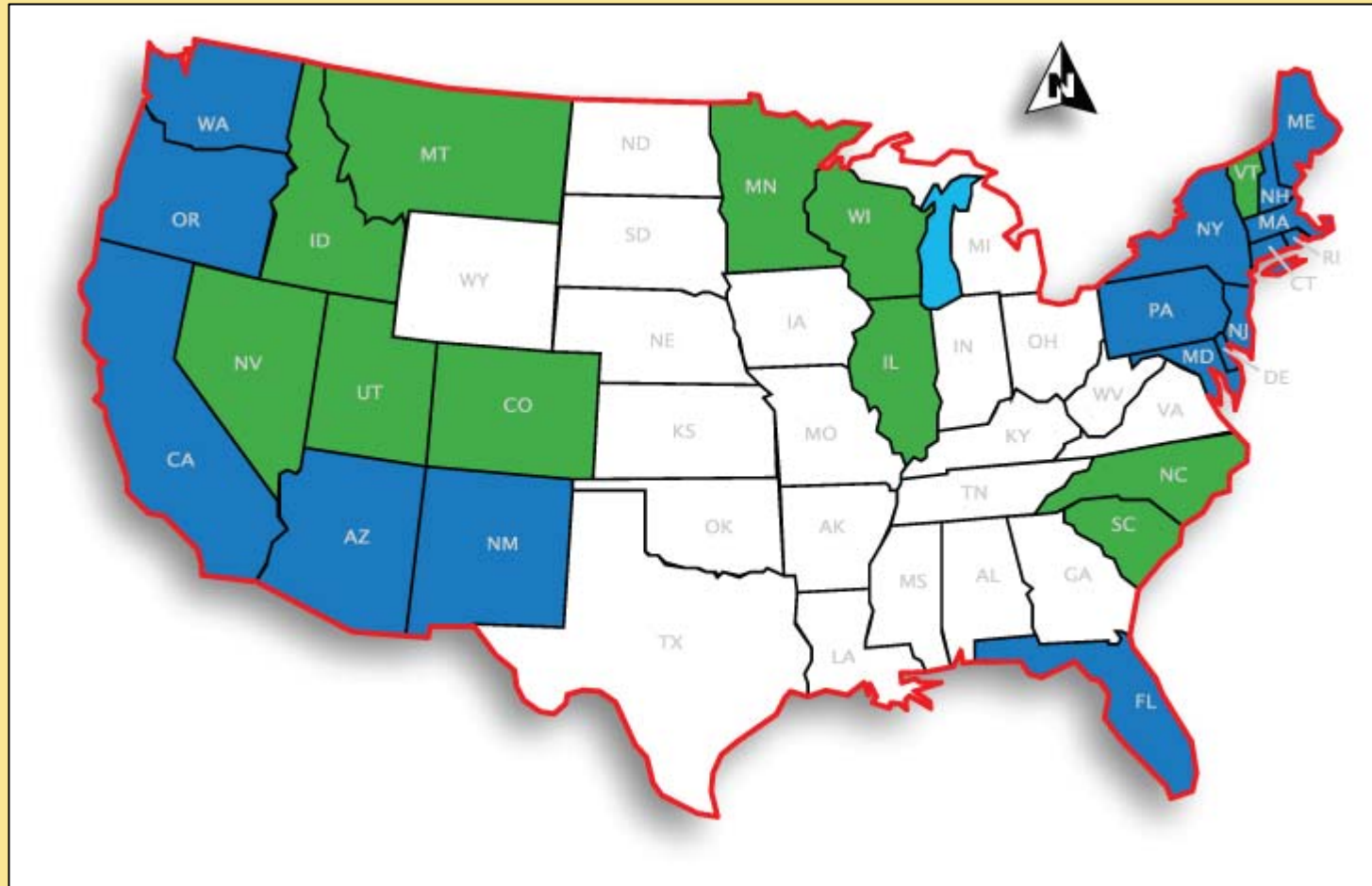
Climate Change Action in Arizona and the West



**Director Steve Owens
Arizona Dep't of Environmental Quality**

www.azclimatechange.gov

Current State Climate Action



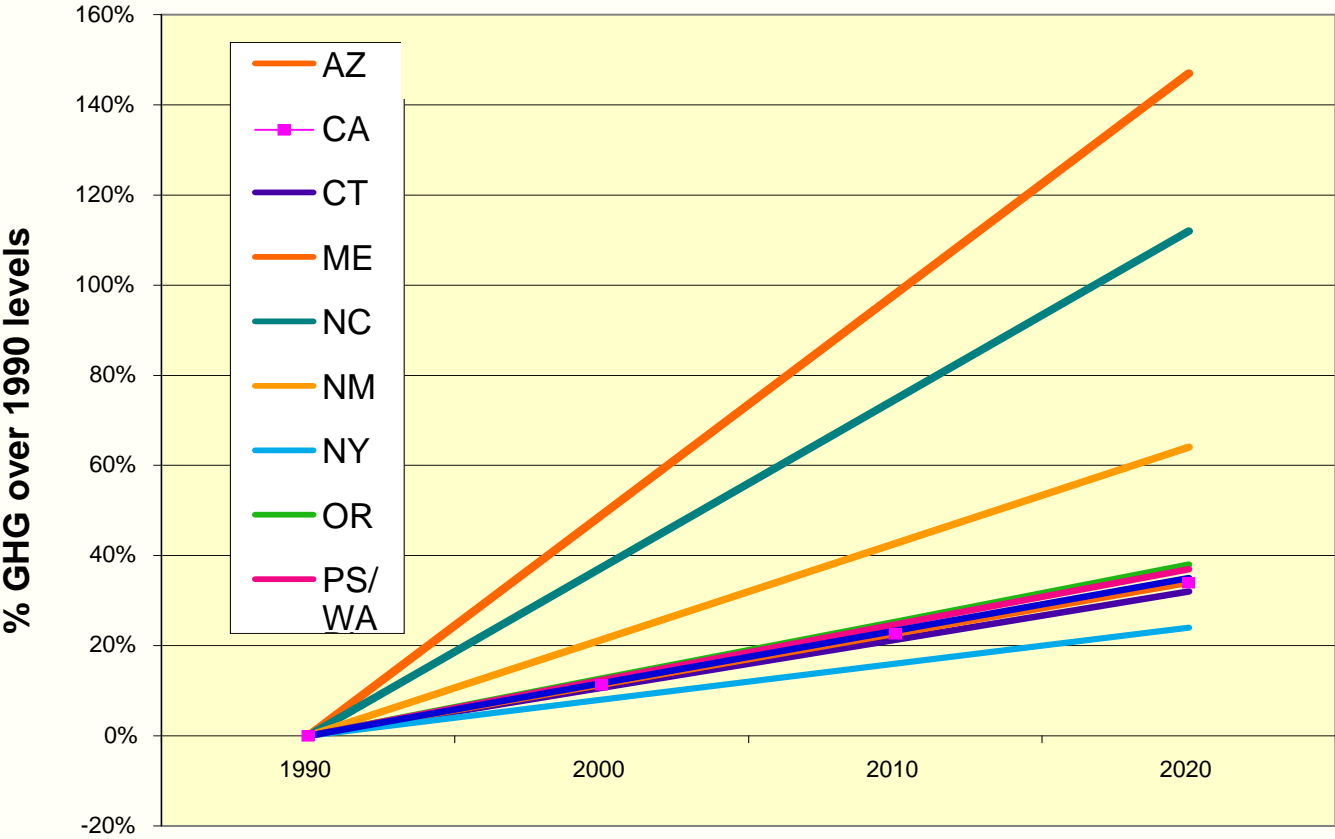
Governor Napolitano's Executive Order 2005-02

- **Created a 35-member Arizona Climate Change Advisory Group (CCAG) to:**
 - **Establish a baseline inventory and forecast of greenhouse gas emissions in Arizona**
 - **Produce an action plan to reduce Arizona's greenhouse gas emissions**

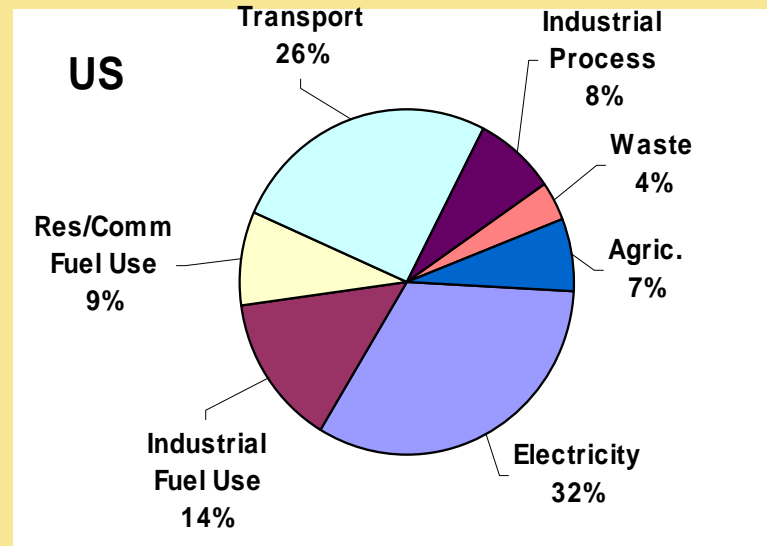
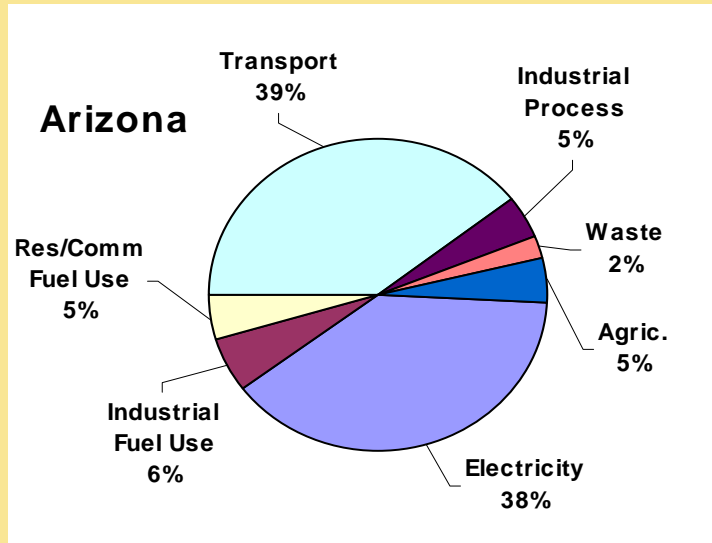
Arizona GHG Emissions Inventory & Forecast

- Arizona's GHG emissions increased by nearly 56% between 1990 and 2005 (from 59 MMT to 93 MMT)**
- Arizona's GHG emissions are projected to increase to roughly 148% over 1990 levels by 2020 (to 147 MMT) and 200% by 2040 (to 179 MMT)**
- Arizona has the fastest GHG emissions rate of growth in the U.S.**

State GHG Emissions Growth Rates



Arizona GHG Emissions, by sector



- **Electricity Use/Production and Transportation together account for roughly 77% of Arizona's total**

**ARIZONA
CLIMATE CHANGE ADVISORY GROUP**

**CLIMATE CHANGE ACTION PLAN
AUGUST 2006**



CCAG Recommendations

49 recommendations, focused on:

- **Reducing energy demand and increasing energy efficiency**
- **Increasing production and use of renewable energy**
- **Increasing alternative fuels and technologies for vehicles**
- **Reducing fuel use**
- **Expanding carbon sinks**
- **Reducing vehicle emissions**
- **Reporting GHG emissions and giving credit for reductions**
- **Capping and trading GHG emissions**
- **Setting a state goal: reduce Arizona's GHG emissions to 2000 level by 2020 and to 50% below 2000 level by 2040**

Governor Napolitano's Executive Order 2006-13

- **Contained specific directives, including:**
 - **Develop a GHG emissions reporting mechanism and establish a multi-state registry**
 - **Adopt the Clean Car Program**
 - **Convert state vehicle fleet to low-GHG-emissions vehicles**
- **Set goal to reduce state's GHG emissions to 2000 levels by 2020 and to 50% below 2000 levels by 2040**
- **Established Climate Change Executive Committee**

Western Regional Climate Action Initiative

- Signed on February 26, 2007 by Washington, Oregon, California, Arizona and New Mexico
- Allows other U.S. states, tribes, Canadian Provinces and Mexican states to observe and join
- Now called Western Climate Initiative (WCI)



Christine O. Gregoire



Theodore R. Kulongoski



Arnold Schwarzenegger



Janet Napolitano



Bill Richardson

WESTERN REGIONAL CLIMATE ACTION INITIATIVE

WHEREAS, western states are experiencing the effects of a hotter, drier climate, including prolonged droughts, excessive heat waves, reduced snow packs, increased snowmelts, decreased spring runoff, altered precipitation patterns, more severe forest and rangeland fires, widespread forest diseases, and other serious impacts; and

WHEREAS, scientific consensus has developed that increasing emissions of human-caused greenhouse gases (GHGs), including carbon dioxide, methane and other GHGs, that are released into the atmosphere are affecting the Earth's climate; and

WHEREAS, the Western Governors Association (WGA) has declared that climate change could have severe economic and environmental impacts on the Western States in coming decades; and

WHEREAS, the WGA also has declared that action is needed to reduce GHG emissions and that many of these actions can have significant economic and environmental benefits for the Western States, including increased energy efficiency, increased renewable energy generation, improved air quality, cost savings, job growth, increased state revenues, and reduced water pollution; and

WHEREAS, we support the development of national, regional, tribal, state and local programs to reduce GHG emissions; and

WHEREAS, we support national, regional, tribal, state and local level policies on global climate change that are consistent with efforts to develop cost-effective alternative energy sources and more efficient use of energy; and

WCI

www.westernclimateinitiative.org

- **Commitments:**
 - **Within 6 months, set a regional goal for reducing GHG emissions**
 - **Within 18 months, develop a design for a regional market-based multi-sector mechanism, such as a load-based cap and trade program, to achieve the regional goal**
 - **Participate in a multi-state GHG registry**

WCI Participants

- **Original Members:**

- Arizona
- California
- New Mexico
- Oregon
- Washington

- **New Members:**

- Utah
- British Columbia
- Manitoba

Original WCI States & Goals

- **Arizona:**
2000 by 2020; 50% below 2000 levels by 2040
- **California:**
2000 by 2010; 1990 by 2020; 80% below 1990 by 2050
- **New Mexico:**
2000 by 2012; 10% below by 2020; 75% below by 2050
- **Oregon:**
1990 by 2010; 10% below by 2020; 75% below by 2100
- **Washington:**
1990 by 2020; 25% below 1990 by 2035; 50% below 1990 by 2050

New WCI Participants

New members must have aggressive emissions reduction goals and commit to take comparable actions (i.e., adopt clean car standards)

- Utah

Will adopt state goal by May 2008

- British Columbia

10% below 1990 levels by 2020

- Manitoba

1990 levels by 2012; 6% below 1990 by 2020

- Observers

Alaska, Colorado, Idaho, Kansas, Nevada, Wyoming, Ontario, Saskatchewan, Sonora

WCI Regional Goal

- **Aggregate reduction of 15% below 2005 levels by 2020**
- **Regional goal reflects the combined impact of individual goals of the WCI partners**
- **Goal statement and metrics located at www.westernclimateinitiative.org/ewebeditpro/items/O104F13006.pdf**
- **WCI partners also have committed to do their share to reduce worldwide CO2 emissions between 50% and 85% by 2050**

Criteria for New WCI Entrants

- Must have adopted an economy-wide GHG reduction goal that reflects a level of effort consistent with that of the WCI partners**
- Must have developed or be developing a comprehensive multi-sector climate action plan to achieve the goal**
- Must have committed to adopt GHG tailpipe standards for passenger vehicles**
- Must be participating in The Climate Registry**

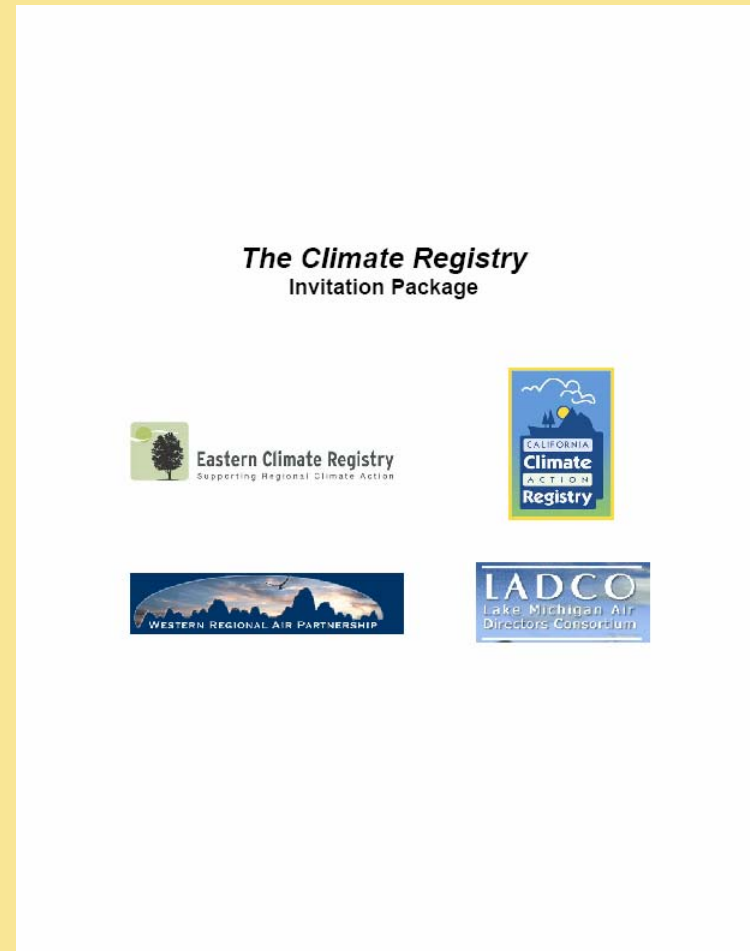
WCI Subcommittees

- **Allocations**
- **Data Reporting**
- **Electricity**
- **Offsets**
- **Scope**

The Climate Registry

www.theclimateregistry.org

- **Multi-state/national GHG emissions registry**
- **Created by WRAP, CCAR, ECR (NESCAUM states) and Midwestern (LADCO) states**
- **Purpose:**
 - **Provide a common GHG currency and minimize the reporting burden**
 - **Provide baseline protection**
 - **Includes tribes**
 - **Canadian provinces and Mexican states can join**



The Climate Registry

- States

AL, AZ, CA, CO, CT, DE, FLA, GA, HI, ID, ILL, KS, ME, MD, MA, MI, MN, MO, MT, NH, NV, NJ, NM, NY, NC, OH, OK, OR, PA, RI, SC, TN, UT, VA, VT, WA, WI, WY

- Tribes

Campo Kumeyaay Nation, Pueblo of Acoma, Southern Ute Tribe

- Provinces

British Columbia, Manitoba

- Mexican States

Sonora

The Climate Registry States

