

State Greenhouse Gas (GHG) Actions

Compiled by Amy Royden-Bloom, Senior Staff Associate, National Association of Clean Air Agencies (NACAA)
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State	Regulation/ offset of EGU emissions	Regulation of motor vehicle emissions & fuels	State-wide target	Action plan	Registry	Other (including contact information)
Alabama				12/1997	The Climate Registry ⁱ	
Alaska				Prelim. report by 3/07; final by 1/08		<ul style="list-style-type: none"> - Alaska Climate Impact Assessment Commission created by legislation 5/06 - Governor created Climate Change Sub-cabinet 9/07 - Observer in Western Climate Initiativeⁱⁱ - www.climatechange.alaska.gov
Arizona		EO 2006-13 directs adoption of CA GHG regulation (Pavley)	-- Per EO 2006-13: - 2020: GHG emissions to 2000 levels - 2040: GHG emissions to 50 percent below 2000 levels -- regional goal through Western Climate Initiative	9/06	The Climate Registry	<ul style="list-style-type: none"> - Climate Change Executive Committee formed 9/06 - Western Climate Initiative - Southwest Climate Change Initiative - www.azclimatechange.us - Ira Domsky Domsky.ira@azdeq.gov
Arkansas			To be recommended by Global Warming Commission	By 11/08 (per HB2460)		Global Warming Commission formed by law 4/07 (HB2460)

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California	1,100 pounds of CO ₂ per megawatt-hour load-based performance standard enacted 1/07 by the California Public Utilities Commission (investor-owned utilities) and 5/07 by the California Energy Commission (municipal utilities) (per SB1368, which provides that all new long-term power contracts serving baseload generation have GHG emissions no higher than a combined-cycle natural gas turbine plant)	<ul style="list-style-type: none"> - Near-term (2009-12) and mid-term (2013-16) CO₂-equivalent g/mi standard; separate ones for passenger cars/small SUVs and large trucks/SUVs (Pavley) - Low carbon fuel standard announced by governor 1/07 	<ul style="list-style-type: none"> -- Per AB 32: - 2020: GHG emissions to 1990 levels --By executive order: - 2010: GHG emissions at 2000 levels - 2020: GHG emissions to 1990 levels - 2050: GHG emissions to 80% below 1990 levels -- regional goal through Western Climate Initiative 	12/05 (under public review)	<ul style="list-style-type: none"> - CA Climate Action Registry (voluntary registry of emissions) - mandatory reporting by largest stationary sources (for EGUs, 2,500 metric tonnes of CO₂ or more; for most other sources, 25,000 metric tonnes of CO₂ or more) beginning with 2008 emissions (to be reported in 2009) - The Climate Registry 	<ul style="list-style-type: none"> - Governor established advisory committee (6/05) - West Coast Governors' Global Warming Initiative - Western Climate Initiative - www.climatechange.ca.gov - Eileen Tutt etutt@calepa.ca.gov - Chuck Shulock cshulock@arb.ca.gov

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Colorado	EGUs will be directed to include in their energy resource plans an analysis of how the EGU could achieve a 20% reduction in CO ₂ emissions from 2005 levels by 2020	Governor announced in climate action plan that he would issue executive order directing the Air Quality Division to propose adoption of CA GHG regulations (Pavley)	Climate Action Plan: - 2020: reduce GHG emissions 20% below 2005 levels - 2050: reduce GHG emissions 80% below 2005 levels	11/07	- The Climate Registry - Governor to issue EO directing proposal of regulations “at the appropriate time” to mandate reporting of all GHG emissions	- Observer in Western Climate Initiative - www.coloradoclimate.org

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Connecticut	RGGI ⁱⁱⁱ	CA GHG regulation (Pavley) - Feebate study completed 12/05 - Legislative action 2006 on car labeling based on GHG emissions - Program under development	- NEG/ECP ^{iv} - PA 04-252 (2004) provides that “it shall be the goal of the state” to reduce GHG emissions “in order to make an appropriate contribution to achieving the regional goals” of reducing GHG emissions to 1990 levels by 1/1/2010, and to 10% below 1990 levels by 1/1/2020, and to 75-85% below 2001 levels by 2050	2/2005	- Mandatory reporting for Title V sources beginning in 2006 - The Climate Registry	- Governor’s Steering Committee - www.ctclimatechange.com - Tracy Babbidge – tracy.babbidge@po.state.ct.us
Delaware	RGGI			1/2000	The Climate Registry	Valerie Gray Valerie.gray@state.de.us

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Florida	Per EO 07-127, DEP to establish maximum allowable GHG emissions levels with at least three reduction milestones: - 2000 levels by 2017, - 1990 levels by 2025, and - 80% below 1990 levels by 2050.	Per EO 07-127, adopt CA GHG regulation (Pavley) when EPA grants waiver	- by 2017, reduce GHG emissions to 2000 levels; - by 2025, reduce GHG emissions to 1990 levels; - by 2050, reduce GHG emissions by 80% of 1990 levels (EO 07-127)	Phase I plan issued 11/07; Phase II plan by 10/08 (EO 07-128)	The Climate Registry	dep.state.fl.us/climatechange/
Georgia					- The Climate Registry - Carbon sequestration registry underway	- Energy/climate contact: Chuck Mueller chuck_mueller@dnr.state.ga.us - Development of state GHG emissions inventory: Michelle Bergin michelle_bergin@dnr.state.ga.us - State carbon sequestration registry: Josh Love joshl@gfc.state.ga.us
Hawaii			1990 levels by 2020 (HB226)	11/1998; new one by 2009	The Climate Registry	
Idaho					The Climate Registry	Governor Executive Order issued 5/07 directing DEQ to develop GHG emissions inventory and recommendations for reducing GHG emissions

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Illinois			-- Per governor announcement 2/14/07: - By 2020, reduce GHG emissions to 1990 levels - By 2050, 60% below 1990 levels -- regional goal through Midwestern Regional GHG Reduction Accord ^v	6/1994 - new plan after ICCAG recs	The Climate Registry	- Illinois Climate Change Advisory Group (ICCAG) created 10/06; complete work by 6/07 - Member of Chicago Climate Exchange; CCX target is reduce emissions from governmental activities by 6% by 2010. - Midwestern Regional GHG Reduction Accord - Ron Burke Ron.burke@illinois.gov
Indiana						- Midwestern Regional GHG Reduction Accord (observer) - Jon Bates jbates@idem.in.gov
Iowa	Permit applicants need to quantify potential to emit GHG emissions due to proposed project (SF485)		-- 50% reduction by 2050 (SF485) -- regional goal through Midwestern Regional GHG Reduction Accord	- 12/1998 - New one by 1/1/08 (SF485)	- Voluntary GHG registry by 1/1/09 (SF485) - The Climate Registry	- Iowa Climate Change Advisory Council created 4/07 by SF485 - Midwestern Regional GHG Reduction Accord - George Welch George.welch@dnr.state.ia.us
Kansas			Regional goal through Midwestern Regional GHG Reduction Accord		The Climate Registry	- Midwestern Regional GHG Reduction Accord - Observer in Western Climate Initiative
Kentucky				6/1998		

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Maine	RGGI	CA GHG regulation (Pavley)	- Statute in June 2003 requires state to meet NEG/ECP targets - NEG/ECP	12/2004	- Multi- pollutant reporting rule - The Climate Registry	
Maryland	RGGI	CA GHG regulation (Pavley) beginning with Model Year 2011 cars	Commission to recommend a goal; EO signed by governor suggests 1990 levels by 2020 and 80% below 2006 levels by 2050	3/2004; new one by 4/08	The Climate Registry	Governor signed Executive Order 4/20/07 establishing Climate Change Commission

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Massachusetts	<ul style="list-style-type: none"> - RGGI - Under 310 CMR 7.29(5)(a)5, CO₂ emissions from six EGUs are capped for 2007 and 2008. A rate cap of 1800 lbs CO₂/MWh also applies for 2008. Excess emissions can be offset with GHG credits under 310 CMR 7.00 Appendix B(7). RGGI (310 CMR 7.70) will replace 310 CMR 7.29(5)(a)5 in 2009. - 1-3% offset from new plants 	CA GHG regulation (Pavley)	NEG/ECP	2004	The Climate Registry	<ul style="list-style-type: none"> - More information regarding 310 CMR 7.29 and GHG Credits can be found at: www.mass.gov/dep/air/laws/regulation.htm#ghg - Bill Lamkin William.lamkin@state.ma.us - Nicholas Bianco Nicholas.Bianco@.State.ma.us
Michigan			Regional goal through Midwestern Regional GHG Reduction Accord		The Climate Registry	<ul style="list-style-type: none"> - Midwestern Regional GHG Reduction Accord - Vinson Hellwig hellwig@michigan.gov

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Minnesota			-- Will be part of climate change action plan -- regional goal through Midwestern Regional GHG Reduction Accord	2/2003; writing new one per Governor direction 12/06 that is due 1/08	The Climate Registry	- Midwestern Regional GHG Reduction Accord - Governor proposed joining Chicago Climate Exchange 12/06 - Peter Ciborowski Peter.ciborowski@state.mn.us
Missouri				7/2002	The Climate Registry	
Montana	HB25 requires coal plants built after 1/1/07 to capture and sequester a minimum of 50% of CO ₂ , and natural gas plants built after 1/1/07 to implement cost- effective carbon offsets		Reduce GHG emissions to 1990 levels by 2020 (Climate Advisory Committee recommendation)	11/2007	The Climate Registry	- Governor announced 11/19/07 state would join Western Climate Initiative - www.mtclimatechange.us

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Nevada					<ul style="list-style-type: none"> - EGUs of 5 MW capacity and larger that sell electricity produced from non-renewable energy sources must report associated GHG emissions -The Climate Registry 	<ul style="list-style-type: none"> - Governor announced Climate Change Advisory Committee on 4/10/07 - Observer in Western Climate Initiative
New Hampshire	<ul style="list-style-type: none"> - Three oldest power plants reduce CO₂ emissions to 1990 levels beginning in 2007; cap and trade system. - Phase II cap replaced by RGGI -- RGGI 		NEG/ECP	8/2002; to be updated in 2007	<ul style="list-style-type: none"> -Voluntary reductions registry - The Climate Registry 	Joe Fontaine jfontaine@des.state.nh.us

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New Jersey	RGGI	CA GHG regulation (Pavley)	Per A3301 - stabilize GHG emissions at 1990 levels by 2020 - reduce GHG emissions 80% below 2006 levels by 2050	2/2002; new one to meet 2020 GHG reduction targets by 6/08 and to meet 2050 reduction target by 6/10	- Requires entities that report other air emissions to the state DEP to also report CO ₂ and CH ₄ emissions - A3301 requires reporting of GHG emissions by significant emitters, including EGUs, gas public utilities & manufacturers & distributors of fossil fuels - The Climate Registry	

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New Mexico		CA GHG regulation beginning with model year 2011 cars (Pavley)	--Per Executive Order: - by 2012, 2000 levels - by 2020, 10% below 2000 levels - by 2050, 75% below 2000 levels -- regional goal through Western Climate Initiative	12/06	- Title V facilities are required to report GHG emissions annually beginning with CO ₂ emissions in 2008 and phasing in other GHGs in future years; also some minor source reporting is required - The Climate Registry	- Governor established Climate Change Action Implementation Team in 12/06 (EO-2006-69) - Southwest Climate Change Initiative - Western Climate Initiative - Member of Chicago Climate Exchange: reduce state gov't GHG emissions by 4% by 2006 and an additional 2% by 2010 - www.nmclimatechange.us - Sandra Ely Sandra.Ely@state.nm.us
New York	RGGI	CA GHG regulation (Pavley)	5% below 1990 levels by 2010; 10% below 1990 levels by 2020	4/2003	The Climate Registry	Peter Iwanowicz pmiwanow@gw.dec.state.ny.us

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North Carolina	Future regulation will depend upon level of goal set by Legislative Commission on Global Climate Change (LCGCC) established by Legislature 9/2005	CA GHG emission regulations (Pavley) under consideration	LCGCC to determine if a goal and stringency - by April 15, 2008	Under development – draft by mid 2007 and complete end 2007	- Likely, but will be impacted by goals set by LCGCC and by national legislation - The Climate Registry	LCGCC - coordinator – Jennifer McGinnis, JenniferM@ncleg.net Climate Action Plan Advisory Group (CAPAG) info at www.ncclimatechange.us Coordinator – Jim Southerland, james.southerland@ncmail.net
Ohio					The Climate Registry	- Midwestern Regional GHG Reduction Accord (observer) - Bill Spires Bill.spires@epa.state.oh.us
Oklahoma					The Climate Registry	

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Oregon	For any new or expanded natural gas plant >25 MW, CO ₂ emissions not exceed 0.675 lbs/kwh (limit set at 17% below the best performing plant). Can offset emissions or pay \$1.35/ton CO ₂ for sequestration project	CA GHG regulation (Pavley)	--Governor announcement 4/05 (& HB3543 8/07): - By 2010, arrest the growth of Oregon's GHG emissions and reduce towards meeting 1990 levels - By 2020, achieve a 10 percent reduction below 1990 GHG levels - By 2050, achieve a "climate stabilization" emissions level at least 75 percent below 1990 levels -- regional goal through Western Climate Initiative	12/2004; new one by end 2007	The Climate Registry	<ul style="list-style-type: none"> - West Coast Governors' Global Warming Initiative - Western Climate Initiative - Governor created the Oregon Climate Change Integration Group to build on 2004 action plan and create a new report by the end of 2007. See http://egov.oregon.gov/ENERGY/GBLWRM/CCIG.shtml - Oregon Global Warming Commission created by HB3543 to submit report by March of each odd-numbered year on progress in meeting reduction targets - Bill Drumheller bill.drumheller@state.or.us
Pennsylvania		CA GHG regulation (Pavley)			The Climate Registry	
Rhode Island	RGGI	CA GHG regulation (Pavley)	NEG/ECP	7/2002	The Climate Registry	<ul style="list-style-type: none"> - Plan contains 52 options to reduce GHG emissions - Steve Majkut Steve.majkut@dem.ri.gov

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South Carolina				By 3/08	The Climate Registry	Executive Order 2007-04 established Governor's Climate, Energy and Commerce Advisory Committee to develop plan
South Dakota						Midwestern Regional GHG Reduction Accord (observer)
Tennessee				4/1999	The Climate Registry	
Utah			Regional goal through Western Climate Initiative	4/1999; Governor wants new one by fall 2007	The Climate Registry	- Governor Blue Ribbon Advisory Council on Climate Change www.deq.utah.gov/BRAC_Climate/ - Western Climate Initiative
Vermont	RGGI	CA GHG regulation (Pavley)	- Law passed in 2006 setting targets (all from 1990 levels): 25% reduction by 1/1/2012; 50% reduction by 1/1/2028; 75% reduction by 1/1/2050 (if practical using reasonable efforts) - NEG/ECP	7/1998; new plan due by 10/07	The Climate Registry	- Jeff Merrell jeff.merrell@state.vt.us -Harold Garabedian Harold.garabedien@state.vt.us - www.vtclimatechange.us

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Virginia			Virginia Energy Plan goal of reducing GHG emissions 30% by 2025 (return to 2005 levels)	By 12/15/08 (per EO59)	The Climate Registry	<ul style="list-style-type: none"> - GHG Working Group convened by State Advisory Board on Air Pollution issued report 1/07 on impacts of global warming on Virginia and possible options. See www.deq.virginia.gov/air/sabrpts.html - Energy Plan available at www.governor.virginia.gov/TempContent/2007_VA_Energy_Plan-Full_Document.pdf - Governor convened Commission on Climate Change 12/21/07 (EO59) www.governor.virginia.gov/Initiatives/ExecutiveOrders/2007/EO_59.cfm

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Washington	<p>- Beginning 7/1/08, all baseload electric generation in long-term contracts must meet the <i>lower</i> of (a) 1,100 lbs.CO₂/MWhr or (b) the average GHG emissions output of new combined-cycle natural gas thermal electric turbines. Renewable and cogeneration plants are deemed in compliance. Emissions can be sequestered or mitigated to meet this standard. (SB6001)</p> <p>- New power plant >25MW and existing plants that increase the production of CO₂ emissions by 15% or more must offset 20% of CO₂ generated by the plant over 30 years. Can satisfy requirement by investing or paying for CO₂ mitigation at \$1.60 per metric ton)</p>	<p>CA GHG regulation (Pavley)</p> <p>- RFS adopted for motor fuels. Starts at 2% can go up to 10% if in-state feedstock and air quality conditions are met.</p>	<p>-- Per EO 07-02 & SB6001:</p> <ul style="list-style-type: none"> - by 2020, reduce GHG emissions to 1990 levels; - by 2035, reduce GHG emissions to 25% below 1990 levels; - by 2050, reduce GHG emissions to 50% below 1990 levels or 70% below expected 2050 levels <p>-- regional goal through Western Climate Initiative</p>	1/2005; new one due 2/08	The Climate Registry	<ul style="list-style-type: none"> - West Coast Governors' Global Warming Initiative - Western Climate Initiative - Washington Climate Change Challenge launched 2-07; plan due 2-08 - Tony Usibelli tonyu@cted.wa.gov - Janice Adair (Ecology) Jada461@ecy.wa.gov

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West Virginia					<ul style="list-style-type: none"> - voluntary GHG reductions registry - mandatory GHG reporting for sources already reporting air emissions under other programs (SB337) 	
Wisconsin			Regional goal through Midwestern Regional GHG Reduction Accord	<ul style="list-style-type: none"> - 5/1998 - new one by 12/31/07 	<ul style="list-style-type: none"> - voluntary reductions registry - emissions reporting required for entities that emit 100,000 or more tons of CO₂ - The Climate Registry 	<ul style="list-style-type: none"> - Governor created Task Force on Global Warming 4/07 - dnr.wi.gov/environmentprotect/gtfgw/ - Midwestern Regional GHG Reduction Accord - Edward Jepsen (registry) edward.jepsen@wisconsin.gov - Eric Mosher (other issues) eric.mosher@dnr.state.wi.us
Wyoming					The Climate Registry	Observer in Western Climate Initiative

ⁱ The Climate Registry is a tool to measure, track, verify and publicly report GHG emissions accurately, transparently and consistently across borders and industry sectors. The Registry will support voluntary, market-based and regulatory GHG emissions reporting programs. It was launched on May 8, 2007. See www.theclimateresistry.org.

ⁱⁱ The Western Climate Initiative was launched on February 26, 2007. Participating states will: 1) within six months, set an overall regional goal for reducing GHG emissions, “consistent with state-by-state goals;” 2) 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 GHG reduction goal;” and 3) participate in a multi-state GHG registry. In August 2007, the WCI announced a regional GHG economy-wide reduction goal of 15% below 2005 levels by 2020. See www.westernclimateinitiative.org.

ⁱⁱⁱ RGGI - Goal is to develop a multi-state cap-and-trade program covering GHG emissions from power plants, focused first on carbon dioxide emissions. Participating states finalized a model rule in August 2006 agreeing to stabilize carbon dioxide emissions from the region’s power plants at current levels from 2009 to the start of 2015 and reduce emissions by 10 percent by 2019. See www.rggi.org.

^{iv} NEG/ECP - Regional goal of reducing GHG emissions to 1990 levels by 2010, 10% below 1990 levels in 2020, and by a sufficient amount to avert the threat of global warming over the longer term, which could be as much as 75%.

^v The Midwestern Regional GHG Reduction Accord was entered into on November 15, 2007. Participating states and the province of Manitoba agreed to establish GHG reduction targets consistent with their own states’ and provincial targets, develop a market-based and multi-sector cap-and-trade mechanism to help achieve these targets, join The Climate Registry and develop and implement other mechanisms and policies as needed to achieve the reduction targets. The Accord also provides that signatories will complete development of a proposed cap-and-trade agreement and a model rule within 12 months of the effective date of the accord. See <http://www.wisgov.state.wi.us/docview.asp?docid=12497>.