

MEMORANDUM

DATE: August 16, 2007
TO: GHG Emissions Work Group
FROM: Joan Rohlf, Chief, AQ Planning
SUBJECT: Regional Climate Strategy Recommendations

The Greenhouse Gas (GHG) Emissions Work Group has been tasked with recommending a regional greenhouse gas reduction goal or target “based on an appropriate baseline,” and recommending projection years. The Climate Change Steering Committee will meet next on September 26. The CCSC Work Program calls for them to consider recommendations regarding baseline year and future years. The Work Group’s recommendations will be presented at that meeting.

Staff Recommendation: The proposed goals are to stop growth in GHG emissions within the next 5 to 10 years and to achieve 2% annual emissions reductions, with the goal of achieving regional GHG emissions reductions of 80% by 2050.

These goals are consistent with major initiatives, such as the Cool Counties agreement, the Mayors Climate Protection Agreement and the broad goals of the Kyoto Protocol. The agreements differ regarding (1) baseline year from which to start measuring reductions, 2) goals to stop emissions growth, and 3) interim emission reduction targets. Most agreements reference 1990 as a base year.

Two options are presented for discussion, one with a 2005 baseline and the other with a flexible baseline (“current”). Achievement would be measured by subtracting reductions from a target year business-as-usual GHG emissions projection.

Recommendations needed for:

- Baseline year
- Projection year(s)
- Target year for stopping GHG emissions growth
- Total overall percent reduction target.

	Base Year	Stop Emissions Growth	Annual Reductions	2020	2030	2050
Option 1	2005	by 2012	2% ↓	30% ↓	50% ↓	80% ↓
Option 2	Current Levels		2% ↓	30% ↓	50% ↓	80% ↓

Attachments:

- A. Metropolitan Washington Region: Jurisdictional GHG Reduction Goals
- B. States and Regional Climate Change Goals
- C. U.S. and International Climate Agreements

Attachment A.
Metropolitan Washington Region: Jurisdictional GHG Reduction Goals
Source: MWCOG

AREA	Base Year	Future Year	TARGETS	STATUS
DC	1990	2012	7% below 1990	US Mayors Agreement
MD (state)	1990	2020	Reduce to 1990	RGGI Climate Change Commission
	2006	2050	20% below 2006	
Montgomery	Current	2012 2050	Stop growth 80% below	Cool Counties
VA (state)				The Climate Registry
Arlington	2000	2012	10% below 2000	FreshAir
Fairfax	Current	2012 2050	Stop growth 80% below	Cool Counties
RGGI	2009	2015	Reduce to 1990	US Northeast; Maryland to Maine. EGUs only.
	2009	2019	10% below 2009	

Attachment B.
States and Regional Climate Change Goals
Source: Pew Center for Climate Change

United States - State & Regional				
Entity	Base Year	Future Year	Target	Notes and Source
Arizona: State-wide	2000	2020 2040	Reduce to 2000 50% below 2000	Executive Order 2006-13
California: State-wide	2000	2010	Reduce to 2000	Executive Order S-3-05
	1990	2020	Reduce to 1990	
		2050	80% below 1990	
California: Major industries state-wide	1990	2020	Reduce to 1990	AB 32
Connecticut: State-wide	1990	2010 2020	Reduce to 1990 10% below 1990	Connecticut Climate Change Action Plan
Illinois: State-wide	1990	2020 2050	Reduce to 1990 60% below 1990	Press Release
Maine: State-wide	1990	2010 2020	Reduce to 1990 10% below 1990	LD 845 (HP 622)
	2003	Long term (2050)?	75-80% below 2003	
Massachusetts: State-wide	1990	2010 2020 Long term (2050)?	Reduce to 1990 10% below 1990 75-85% below 1990	Massachusetts Climate Protection Plan of 2004
Massachusetts: Electric Utilities	1997-1999	Unspecified	10% below 1997-1999	CO ₂ target only. 310 CMR 7.29
New Hampshire: State-wide	1990	2010 2020	Reduce to 1990 10% below 1990	The Climate Change Challenge
	2001	Long term (2050)?	75-85% below 1990	
New Hampshire: Electric Utilities	1990	2006	Reduce to 1990	CO ₂ target only. HB 284
New Jersey: State-wide	1990	2020	Reduce to 1990	Press release and executive order
	2006	2050	80% below 2006	
New Mexico: State-wide	2000	2012	Reduce to 2000	Executive Order 05-033

		2020 2050	10% below 2000 75% below 2000	
New York: State-wide	1990	2010 2020	5% below 1990 10% below 1990	State Energy Plan of 2002
Oregon: State-wide	Unspecified 1990	2010 2020 2050	Stabilize by 2010 10% below 1990 75% below 1990	Oregon Strategy for Greenhouse Gas Reductions
Rhode Island: State-wide	1990	2010 2020	Reduce to 1990 10% below 1990	Rhode Island Greenhouse Gas Action Plan
Vermont: State-wide	1990 2001	2010 2020 Long term (2050)?	Reduce to 1990 10% below 1990 75-85% below 2001	
Washington: State-wide	1990	2020 2035 2050	Reduce to 1990 25% below 1990 50% below 1990	Executive Order 07-02
Regional Greenhouse Gas Initiative: CO ₂ emissions from power plants	Unspecified 2009	2009 2019	Cap emissions at current levels in 2009 10% below 2009	Pew Center summary
New England Governors and Eastern Canadian Premiers: Regional economy-wide	1990 2001	2010 2020 Long term (2050)?	Reduce to 1990 10% below 1990 75-85% below 2001	Climate Change Action Plan of 2001

Attachment C.

U.S. and International Climate Agreements

Source: Pew Center for Climate Change

PROGRAM	Base Year	Future Year	TARGETS	STATUS
Kyoto	1990	2012	7% below 1990	
California Climate Action Registry	2000 1990	2010 2020 2050	Reduce to 2000 Reduce to 1990 80% below 1990	Encouraged, but optional. Info: http://www.climateregistry.org
Cool Counties	Current levels	2050	80% below 2010	2%/yr reduction, stop emission growth 2010
Cool Cities	Current levels	2050	80% below	http://coolcities.us , 2%/yr reduction
Clinton Climate Initiative	Unspecified	Unspecified	Unspecified	More info: http://www.clintonfoundation.org/cf-pgm-cci-home.htm
Clean Energy-Environment State Partnership	Unspecified	Unspecified	Unspecified	Voluntary. More info: www.epa.gov/cleanenergy/stateandlocal/partnership.htm
Climate Vision	2002?	2012?	Reduce by 18% over 10 years	Base year and future year not explicitly specified. Info here: http://www.epa.gov/climatechange/policy/index.html
WWF Climate Savers	Organization-Specific	Organization-Specific	Organization-Specific	Encouraged, but optional. Info found here: http://www.worldwildlife.org/climate/projects/climatesavers/companies.cfm

EU GHG Emissions Allowance Trading Scheme	1990	2008-2012	8% below 1990	Compliance required. More info here: http://ec.europa.eu/environment/climat/pdf/reducing_emissions_energy_transport.pdf
Chicago Climate Exchange	1998-2001 Average	2010	6% below	More info here: http://www.chicagoclimateexchange.com/ - Phase 1 (2003-2006) is complete, Phase 2 (2010 target) now underway.
Respect Europe BLICC	Organization-Specific	Organization-Specific	Organization-Specific	Mandatory; specific to each organization. More info here: http://www.respecteurope.com/ --> BLICC
New England Governors Climate Action Plan	1990	2010 2020 Long term (2050)?	Reduce to 1990 10% below 1990 75-85% below 1990	Underway. Info: http://www.newenglandclimate.org/background.htm