



Iowa Climate Change Advisory Council

Cross-Cutting Issues Subcommittee
Meeting #12

September 30, 2008

Iowa Department of Natural Resources
The Center for Climate Strategies

September 30, 2008

Welcome and Introductions

- Iowa Subcommittee (SC) Members
- Iowa DNR
- Members of the Public
- Center for Climate Strategies

Agenda

1. Introductions and Agenda Review
2. Meeting Purpose and Goals
3. Approval of Summary of Prior Call/Meeting [Decision Item]
4. Results from ICCAC Meeting #6, September 3-4, 2008
5. Goals for ICCAC Meeting #7- November 10, 2008
6. Review ICCAC Changes to CC Policy Option Proposals
7. Discuss Process for Developing Proposed Goals and Targets and CC Policy Option #2
8. Review of Next Steps
9. Agenda, Date, and Time for Next Meetings [Decision Item]
10. Public Comments
11. Announcements

Approval of Last Call Summary

- See Draft Summary

Results from ICCAC Meeting #6

- ICCAC made minor amendments to CC Policy Options and approved all CC Options, except #2.
- ICCAC is looking to the CC Subcommittee for a recommendation about proposed GHG Reduction Goals and Targets for IA.
- ICCAC Approved a Final Set of Amendments to be made to the Iowa GHG Emissions Inventory and Forecast

Goals for ICCAC Meeting #7

- Final Approval of the Iowa Emissions Inventory and Forecast
- Review and Approve All Remaining Policy Option Documents from Subcommittees, Including Quantification Results
- Approval of GHG Reduction Goals and Targets for Iowa
- Review Process for Developing and Approving Final Report

Stepwise Planning Process

1. Develop inventory and forecast of emissions
2. Identify a full range of possible actions
3. Identify initial priorities for analysis
4. Develop straw proposals
5. Quantify GHG reductions and costs/savings
6. Evaluate externalities, feasibility issues
7. Develop alternatives to address barriers
8. Aggregate results
9. Iterate to final agreements
10. Finalize and report recommendations

Policy Option Template

- Policy Description (Concept)
- Policy Design (Goals, Timing, Coverage)
- Implementation Methods
- Related Programs and Policies (BAU)
- Estimated GHG Savings and Costs Per MMtCO₂e
 - Data sources, methods, and assumptions
 - Key uncertainties
- Additional (non-GHG) Benefits and Costs, as Needed
- Feasibility Issues, if Needed
- Status of Group Approval
- Level of Group Support
- Barriers to Consensus, if Any

Cross-Cutting Issues Subcommittee

Proposed Priorities

1. GHG Inventories, Forecasting, Reporting, and Registry
2. [Statewide GHG Reduction Goals and Targets](#)
3. State and Local Government GHG Emissions (Lead-by-Example)
4. Public Education and Outreach
5. Tax and Cap Policies
6. Seek Funding for Implementation of ICCAC Recommendations
7. Adaptation and Vulnerability
8. Participate in Regional and Multistate GHG Reduction Efforts
9. Encourage the Creation of a Business-Oriented Organization to Facilitate Investment in Climate-Related Business Opportunities and to Share Information and Strategies, Recognize Successes, and Support Aggressive GHG Reduction Goals

Policy Options Document

- Refer to CC SC Policy Options Document

IA GHG Reduction Goals

- 2005 Baseline Year
- 2012 Short Term Goal- TBD
- 2020 Mid-Term Goal- TBD
- 2050 Long-Term Goals- 50%- 90%

State, Province, or Region	1990-2020 GHG Forecast	State Goals	Climate Plan Coverage
Arizona	144%	<ul style="list-style-type: none"> • 2000 levels by 2020; 50% below by 2040 • 15% below 2005 levels by 2020 (WCI) 	106%
California	40%	<ul style="list-style-type: none"> • E.O.: 2000 level by 2010; 1990 by 2020; 80% below 1990 by 2050 • AB-32: 1990 levels by 2020 • 15% below 2005 levels by 2020 (WCI) 	100%
Colorado	71%	<ul style="list-style-type: none"> • 20% below 2005 level by 2020; 80% below by 2050 	75%
Connecticut	32%	<ul style="list-style-type: none"> • 1990 level by 2010; 10% below by 2020; 75% below by 2050 	100%
Florida	?	<ul style="list-style-type: none"> • 2000 level by 2017; 1990 level by 2025; 80% below 1990 by 2050 	?
Massachusetts	?	<ul style="list-style-type: none"> • 1990 level by 2010; 10% below by 2020; 75% below by 2050 	?
Maine	34%	<ul style="list-style-type: none"> • 1990 level by 2010; 10% below by 2020; 75% below by 2050 	100%
Maryland	54%	<ul style="list-style-type: none"> • 10% below 2006 levels by 2012; 15% below 2006 levels by 2015; 25% (enforceable)-50% (science based) below 2006 levels by 2020; 90% below 2006 levels by 2050. 	TBD
Minnesota	48%	<ul style="list-style-type: none"> • Next Generation Energy Act: 15% below 2005 levels by 2015; 30% by 2025; 80% by 2050 	TBD
Montana	30%	<ul style="list-style-type: none"> • 1990 level by 2020; 80% below by 2050 (consumption & production) 	89%-105%
North Carolina	113%	?	TBD
NEG/ECP	?	<ul style="list-style-type: none"> • 1990 level by 2010; 10% below by 2020; 75% below by 2050 	TBD

State, Province, or Region	1990-2020 GHG Forecast	State Goals	Climate Plan Coverage
New Jersey	28%	<ul style="list-style-type: none"> • E.O. 54: 1990 level by 2020; 80% below 2006 levels by 2050 	TBD
New Mexico	65%	<ul style="list-style-type: none"> • 2000 level by 2012; 10% below by 2020; 75% below by 2050 • 15% below 2005 levels by 2020 (WCI) 	133%
New York	24%	<ul style="list-style-type: none"> • 5% below 1990 by 2010 	?
Ontario	?	<ul style="list-style-type: none"> • 6% below 1990 by 2014 	n/a
Oregon	61%	<ul style="list-style-type: none"> • 10% below 1990 by 2020; 75% below 1990 by 2050 • 15% below 2005 levels by 2020 (WCI) 	85%
Puget Sound	37%	<ul style="list-style-type: none"> • 1990 level by 2010; 10% below by 2020; 75% below by 2100 	100%
Rhode Island	35%	<ul style="list-style-type: none"> • 1990 level by 2010; 10% below by 2020; 75% below by 2050 	100%
Vermont	26-59%	<ul style="list-style-type: none"> • 25% below 1990 levels by 2012; 50% below 1990 by 2028; 75% below by 2050 	TBD
Utah	95%	<ul style="list-style-type: none"> • 15% below 2005 levels by 2020 (WCI) 	TBD
Washington	40%	<ul style="list-style-type: none"> • E.O.: 1990 levels by 2020; 25% below 1990 by 2035; 50% below 1990 by 2050 • 15% below 2005 levels by 2020 (WCI) 	TBD
WCI	54%	<ul style="list-style-type: none"> • 15% below 2005 levels by 2020 (AZ, NM, CA, OR, UT, WA, BC, MB) 	TBD
British Columbia	69%	<ul style="list-style-type: none"> • 15% below 2005 levels by 2020 (WCI) 	TBD
Manitoba	TBD	<ul style="list-style-type: none"> • 15% below 2005 levels by 2020 (WCI) 	TBD

ICCAC Actions

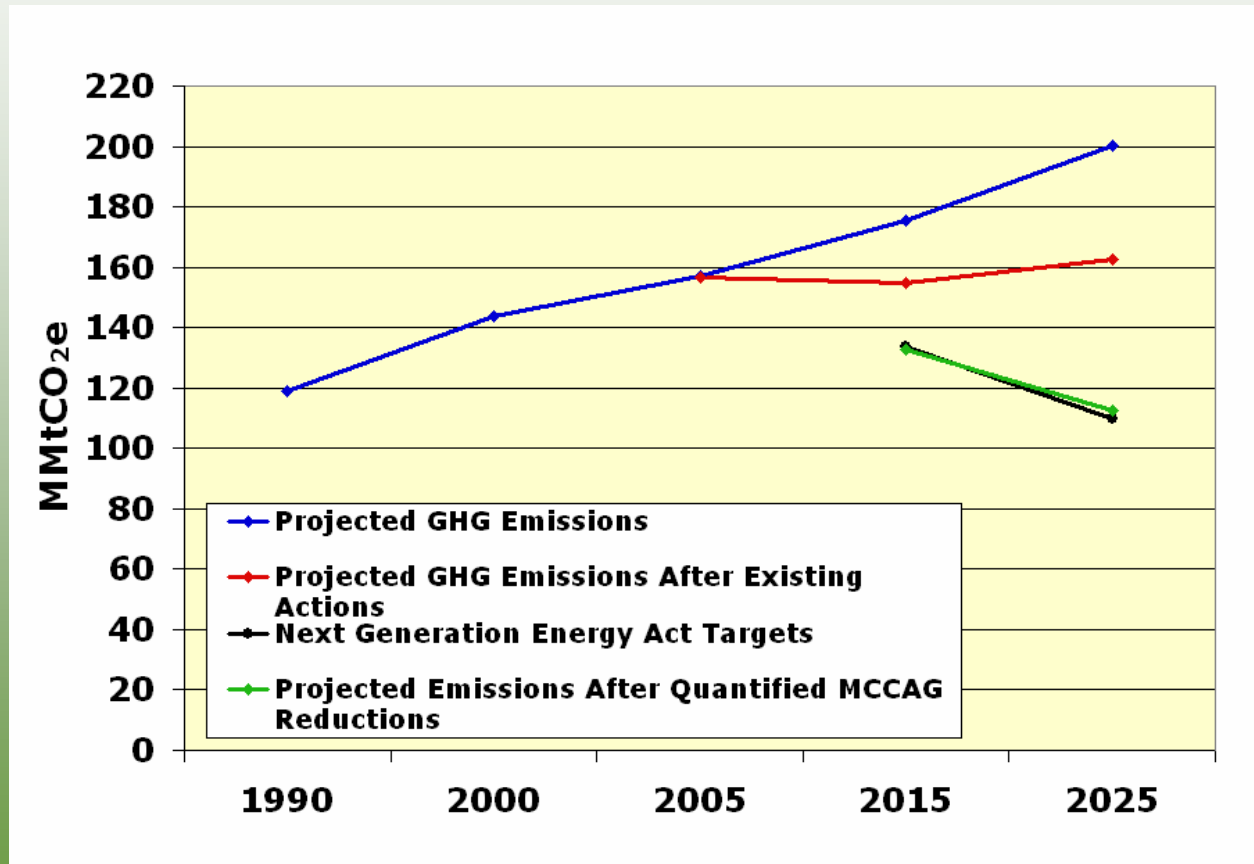
Draft Results- Gross Emissions

Consumption Basis - Gross Emissions/Year							
	1990	2000	2005	2010	2012	2015	2020
Projected GHG Emissions (BAU)	100.9	118.1	121.4	127.8	115.1	135.6	143.9
Reductions from Recent Actions			0.0	0.1	0.4	1.2	2.9
Projected GHG Emissions After Recent Actions			121.4	127.7	114.7	134.4	141.0
GHG Reduction Goal Recommended by ICCAC					TBD	TBD	TBD
Total GHG Reductions from ICCAC Policies					19.5	53.5	110.0
Difference Between ICCAC Reductions & Targets					TBD	TBD	TBD
Projected Emissions After Quantified ICCAC Reductions					95.2	80.9	31.0

ICCAC Actions Draft Cumulative Results

Sector	2012 MMtC O2e/Yr	2020 MM tCO 2e/ Yr	2009- 2020 MMt CO2 e(Cu m.)	Million\$ NPV* 2009- 2020 (Cum.)	\$/tCO2e* (Cum.)
EEC (RCI Fuels; Non-Electric)	0.8	7.7	36.7	-\$852	-\$23
CRE (Energy Supply Includes Adjustments for Overlaps with EEC)	6.1	56.5	289.7	\$6,331	\$22
TLU	1.2	7.4	38.0	\$1,118	\$29
AFW	11.4	38.4	240.1	\$1693	\$7.1
CC					
Total * (-) = Cost savings	19.5	110.0	604.5	\$8290	\$13.7

Figure EX-4. MN Annual GHG emissions: reference case projections and MCCAG recommendations (consumption-basis, gross emissions)

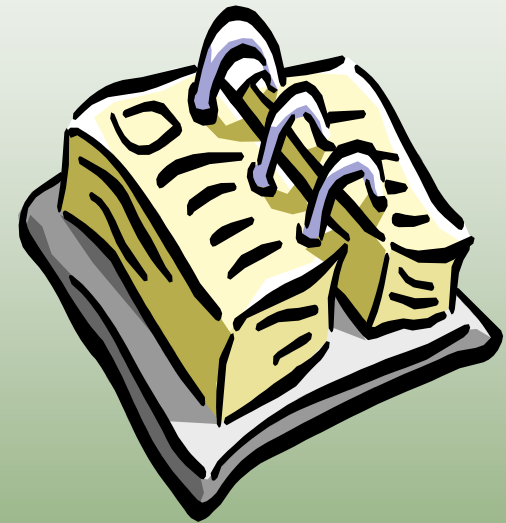


Next Steps

- Other SCs Complete Policy Options Development and Quantification of Remaining Options
- CC SC Develops Proposed GHG Reduction Goals and Targets for ICCAC Consideration

Next Subcommittee Meeting

- Agenda:
 - Develop Proposal to ICCAC for GHG Reduction Goals and Targets
- Date: October 22, 2008



ICCAC Meeting Schedule

Date	Action
October 18, 2007	1 st ICCAC meeting
December 17, 2007	2 nd ICCAC meeting
February 8, 2008	3 rd ICCAC meeting
April 11, 2008	4 th ICCAC meeting
June 12, 2008	5 th ICCAC meeting
September 3-4, 2008	6 th ICCAC meeting
November 10, 2008	7th ICCAC meeting
December 15, 2008	ICCAC Final Report completed
Between ICCAC meetings	SC conference calls and meetings

Public Input, Announcements