



Michigan Climate Action Council
Department of Environmental Quality

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Michigan Climate Action Council (MCAC)

Cross Cutting Issues Technical Work
Group (TWG) Meeting #12
October 1, 2008

Michigan Department of Environmental Quality
The Center for Climate Strategies

Agenda

1. Introductions
2. Meeting Purpose and Goals
3. Approval of Summary of Prior Call- Meeting #11
4. Results from MCAC Meeting #5- September 12, 2008
5. Goals for MCAC Meeting #6- November 20-21, 2008
6. Review of MCAC Changes to CCI TWG Policy Options and Review and Approval of CCI -10
7. Discuss Process for Developing Proposed Goals and Targets and CCI- Option 2
8. Review of Next Steps
9. Agenda, Date and Time for Next Meetings
10. Public Comments
11. Announcements

Approval of Prior Call Summary

- August 20, 2008 Call #11 Summary

Goals for CCI TWG Call #12

- CCI TWG Policy Options- Brief Review of MCAC Changes to Policy Options and Approve CCI -10 for MCAC Consideration
- Review Process to Develop GHG Reduction Goals and Targets Proposal for Next MCAC meeting

Results from MCAC Meeting #5

- MCAC made minor amendments to CCI Policy Options and approved all options except # 2 and #10
- MCAC is looking to CCI TWG for a recommendation about proposed goals and targets for MI.
- MCAC approved a set of amendments to be made to the MI GHG Emissions Inventory and Forecast.

Goals for MCAC Meeting #6

- Final Approval of MI GHG Emissions Inventory and Forecast
- Review and Approve all Remaining Policy Option Proposals from TWGs, including Quantification Results
- Review and Approve GHG Reduction Goals for MI
- Review Process for Developing and Approving the 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 (CCI) TWG- Summary List of Approved Straw Policy Descriptions and Designs

- CCI-1 GHG Inventories, Forecasting, Reporting, and Registry
- [CCI-2 Statewide GHG Reduction Goals and Targets](#)
- CCI-3 State and Local Government GHG Emission Reductions (Lead-by-Example)
- CCI-4 Comprehensive Local Government Climate Action Plans (Counties, Cities, Etc.)
- CCI-5 Public Education and Outreach
- CCI-6 Tax and Cap/ Cap and Trade [MCAC Approved Establishment of New Market Based Policies TWG to Address these Options]
- CCI-7 Seek Funding for Implementation of MCAC Recommendations
- CCI-8 Adaptation and Vulnerability
- CCI-9 Participate in Regional and Multi-state GHG Reduction Efforts
- [CCI-10 Enhance and Encourage Economic Growth and Job Creation Opportunities Through Climate Change Mitigation](#)
- CCI-11 Enhance and Encourage Community Development Through Climate Change Mitigation; Address Environmental Justice

CCI TWG Policy Options Document (POD)

- See MI CCI TWG draft POD

MI GHG Reduction Goals

- 2002 Baseline Year
- 2015 Short Term Goal- 10-20% below baseline
- 2025 Mid-Term Goal- 25-35% below baseline
- 2050 Long-Term Goals- 80% below baseline

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

MCAC Actions

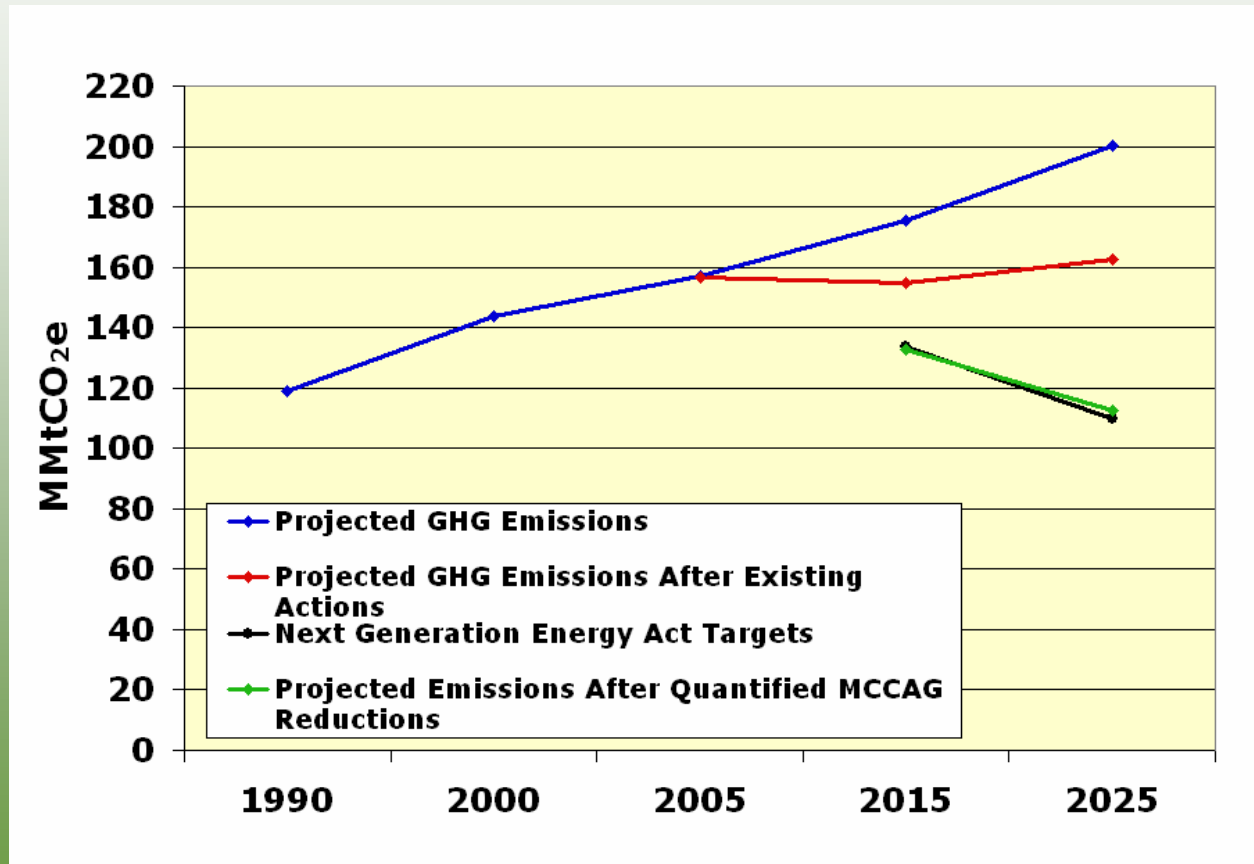
Partial Cumulative Results-Draft

Sector	2015 MMt CO2 e	2025 MMt CO2 e	2009- 2025 MMt CO2 e	Million\$ NP V 200 9- 202 5	\$/tCO2e
RCI (Fuels; Non-Electric)	TBD	TBD	TBD	TBD	TBD
ES (Includes Adjustments for Overlaps with RCI)	TBD	TBD	TBD	TBD	TBD
TLU	2.5	9.4	69.3	\$5,544	\$80
AFW	32.4	80.1	604.2	-\$1,944	-\$3.2
MBP	TBD	TBD	TBD	TBD	TBD
Total	35.0	89.5	673.5	\$3,600	\$5.3

MCAC Actions- Gross Emissions Partial Results- Draft

Consumption Basis - Gross Emissions							
	1990	2000	2005	2010	2015	2020	2025
Projected GHG Emissions	214.0	244.1	239.3	244.9	258.6	271.5	260.5
Reductions from Recent Actions			0.0	0.2	3.7	6.7	7.8
Projected GHG Emissions After Recent Actions			239.3	244.7	255.0	264.7	252.6
GHG Reduction Goal Recommended by MCAC					TBD	TBD	TBD
Total GHG Reductions from MCAC Policies					35.0	62.2	89.5
Difference Between MCAC Reductions & Targets					TBD	TBD	TBD
Projected Emissions After Quantified MCAC Reductions					220.0	202.5	163.1

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

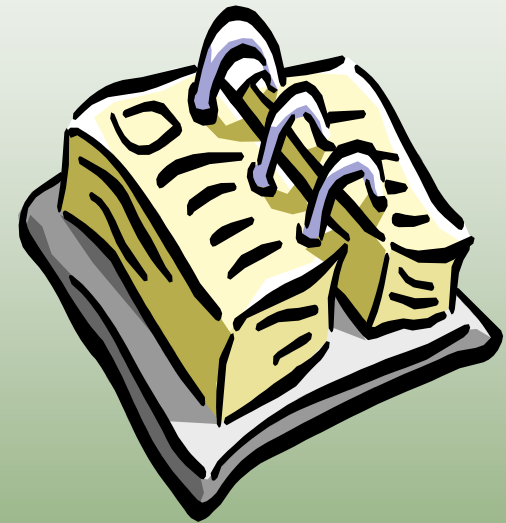


Next Steps- Finish Development of Policy Options Document

- Finish Development of Remaining Policy Options, CCI 10 and CCI -2
- Other TWGs Complete Policy Options Development and Quantification of Remaining Options
- CCI TWG Develops Proposed GHG Reduction Goals and Targets for MCAC Consideration

Next TWG Meeting

- Agenda:
 - Finish Development of all Remaining Proposed Policy Options
 - Discuss proposed Goals for MCAC Consideration
- Call #13 Time and Date-11:00 am-12:30 pm EDT, Wednesday, November 5, 2008



Schedule

Date	Action
December 12, 2007	1 st MCAC meeting
February 14, 2008	2 nd MCAC meeting
April 25, 2008	3 rd MCAC meeting and Interim Report
June 27, 2008	4 th MCAC meeting
September 12, 2008	5 th MCAC meeting
November 20-21, 2008	6 th MCAC meeting
December 19, 2008	MCAC Final Report due
Between MCAC Meetings	TWG conference calls and meetings

Public Input, Announcements