



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 #14
January 14, 2009

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 #13
4. Results of MCAC Meeting #6 on CCI-10
5. Goals for MCAC Meeting #7- January 28, 2009
6. Review and Approval of Option CCI -2 for Recommendation to MCAC
7. Public Comments
8. Announcements

Approval of Prior Call Summary

- November 5, 2008 Call #13 Summary

Goals for CCI TWG Call #13

- CCI TWG Policy Options- Review and Approval of Option CCI -2 for Recommendation to MCAC

Goals for MCAC Meeting #7

- Review and Approve All Remaining Policy Option Proposals from TWGs, including Quantification Results
- Establish Final Proposed GHG Reduction Goals for Michigan
- Review Process for Developing and Approving the Final Report

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

MI GHG Reduction Goals in Interim Report

- 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

Cumulative Results

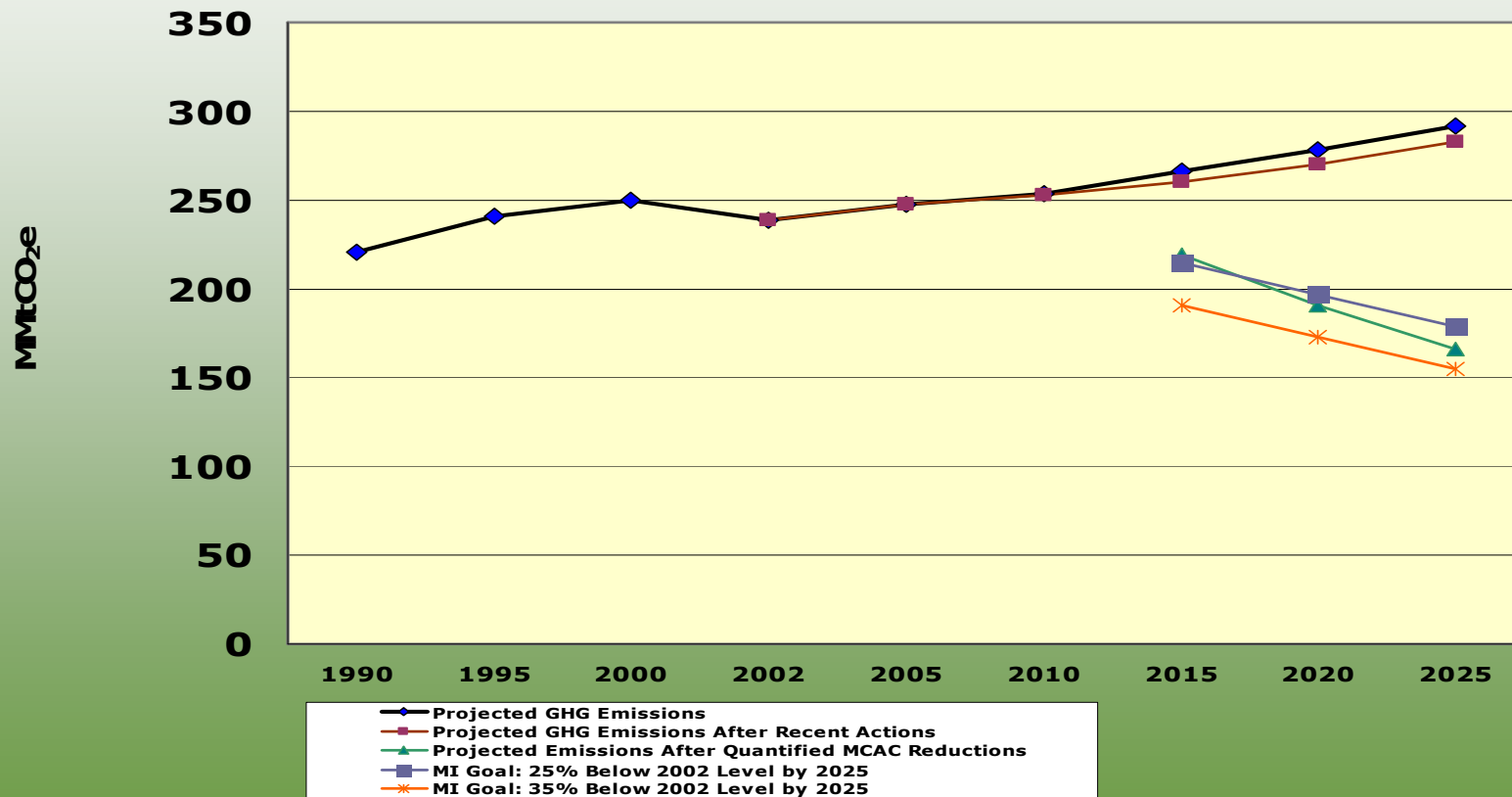
Sector	2015 M Mt C O 2e	2025 M Mt C O 2e	2009- 202 5 MM tC O2 e	Million\$ NP V 200 9- 202 5	\$/tCO2e
RCI (Fuels; Non-Electric)	21.9	65.1	524.6	-\$13,014	-\$25
ES (Includes Adjustments for Overlaps with RCI)	8.1	23.6	220.3	\$7,951	\$36
TLU	4.8	10.5	95.1	-\$3,425	-\$36
AFW	6.4	17.4	147.0	-\$1,634	-\$11.1
CC					
Total	41.2	116.6	987.0	-\$10,122	-\$10.3

GHG Emission Reductions

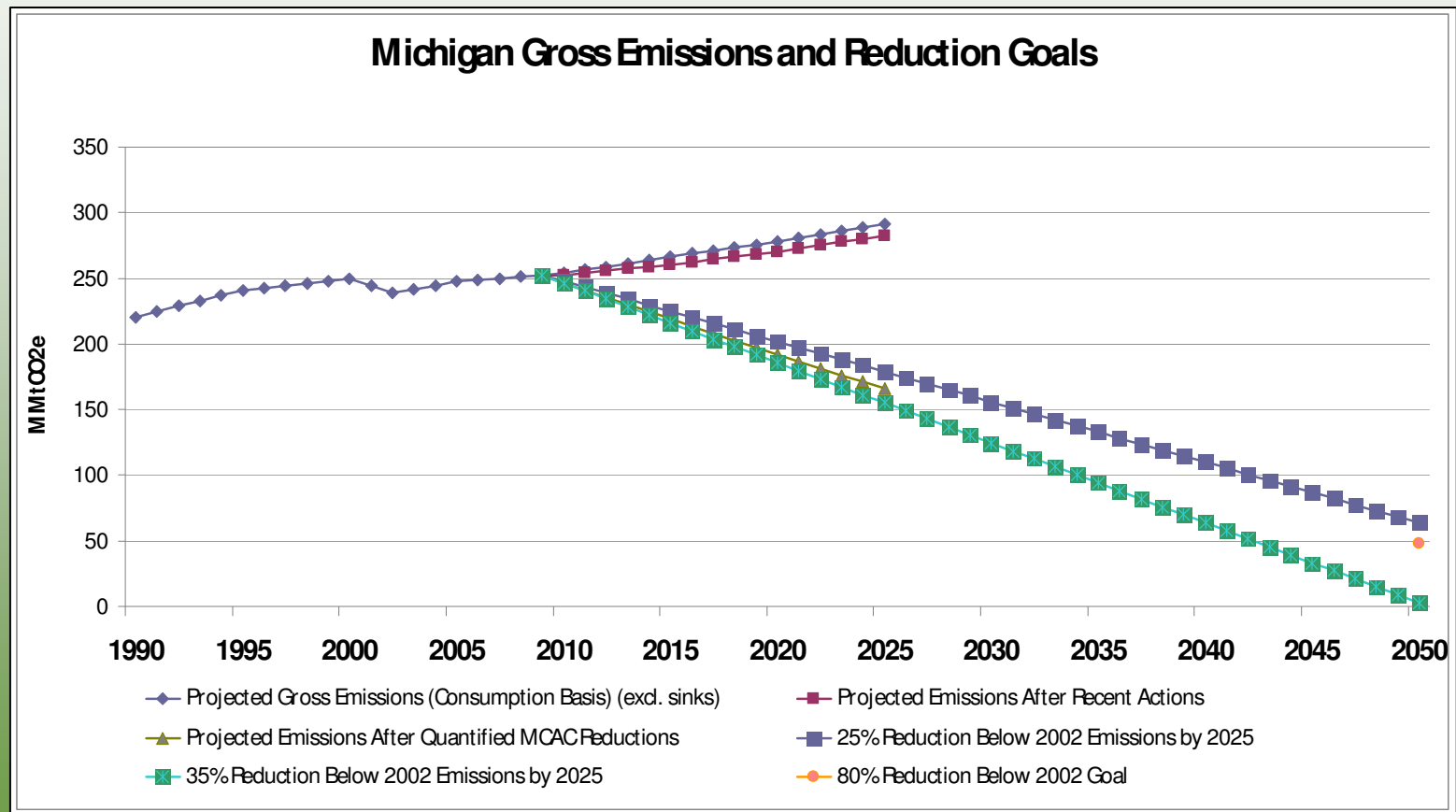
Consumption Basis - Gross Emissions									
	1990	1995	2000	2002	2005	2010	2015	2020	2025
Projected GHG Emissions	220.7	240.9	250.0	238.5	247.5	253.8	266.4	278.0	291.6
Reductions from Recent Actions					0.0	0.7	6.2	8.3	8.9
Projected GHG Emissions After Recent Actions				238.5	247.5	253.1	260.2	269.6	282.7
GHG Reduction Goal Recommended by MCAC								198.0	
Total GHG Reductions from MCAC Policies							41.2	78.9	116.6
Difference Between MCAC Targets & Emissions Remaining After Reductions							-4.3- -28.2	7.3	12.8--11.0
Projected Emissions After Quantified MCAC Reductions							219.0	190.7	166.1
MI Goal: 25% Below 2002 Level by 2025							214.7	196.8	178.9
MI Goal: 35% Below 2002 Level by 2025							190.8	172.9	155.1

Projected Emissions

Future Emissions - Consumption Gross



Linear Projection of GHG Emission Scenarios to 2050



MI Draft Goals Proposal

- Based on MGA Preliminary Proposals:
- Use 2005 as baseline year for calculating target reductions
- Target a 20% GHG reduction below 2005 baseline levels by 2020 as the interim goal
- Target a 80 % reduction below 2005 levels by 2050 as a long-term goal.

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

CCI TWG Policy Options Document (POD)

- See MI CCI TWG draft POD- CCI- 2

Next Steps

- Present Last Remaining Policy Option, CCI -2, to MCAC for Action

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
January 20, 2009	7 th MCAC meeting
February 26, 2009	8 th and final MCAC Meeting via teleconference
March 1, 2009	MCAC Final Report due

Public Input, Announcements