



MINNESOTA
Climate Change
Advisory Group



Minnesota Climate Change Advisory Group

Cross-Cutting Issues
Technical Work Group Meeting #11
January 15, 2008

Minnesota Department of Commerce
Minnesota Pollution Control Agency
The Center for Climate Strategies

Today's Agenda

- Call to order and roll call
- Review and approval of prior call summary
- Review Results of MCCAG Meeting #7
- Review goals for MCCAG Meeting #8 (scheduled for January 24, 2008)
- Finalize the Straw proposals for CC priority policy option descriptions
- Discuss elements of MCCAG Final Report
- Review and discussion of Next Steps for CC TWG
- Public Comments
- Announcements

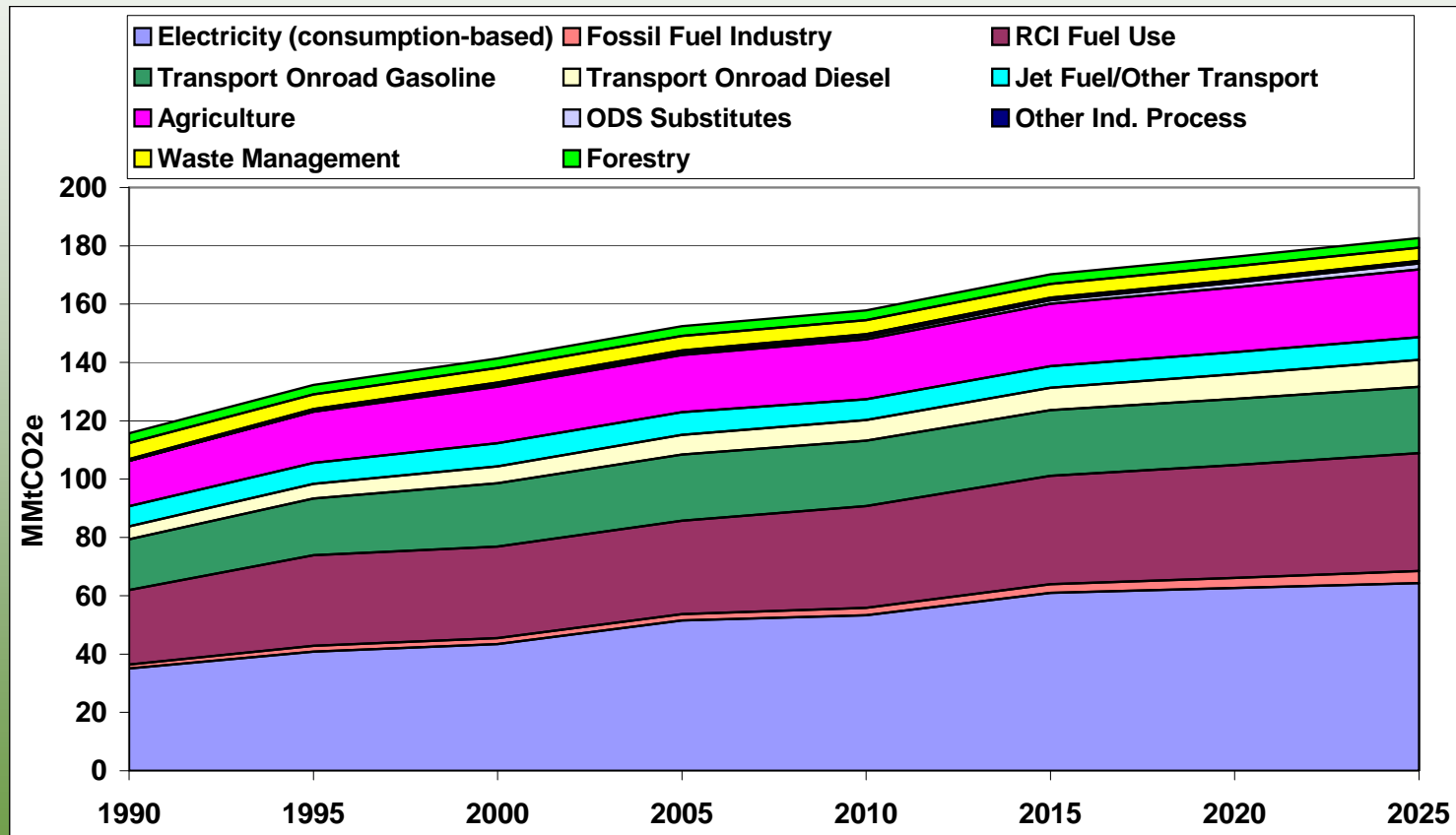
MCCAG Meeting #7 Results

- MCCAG Approved CC TWG Policy Options [CC-1, CC-3, CC-4, CC-7, CC-8, CC-9]
- CC-10 - Carbon Credit System - Is being addressed by Cap and Trade TWG
- CC-2 : Goals - Pending CC TWG Recommendation

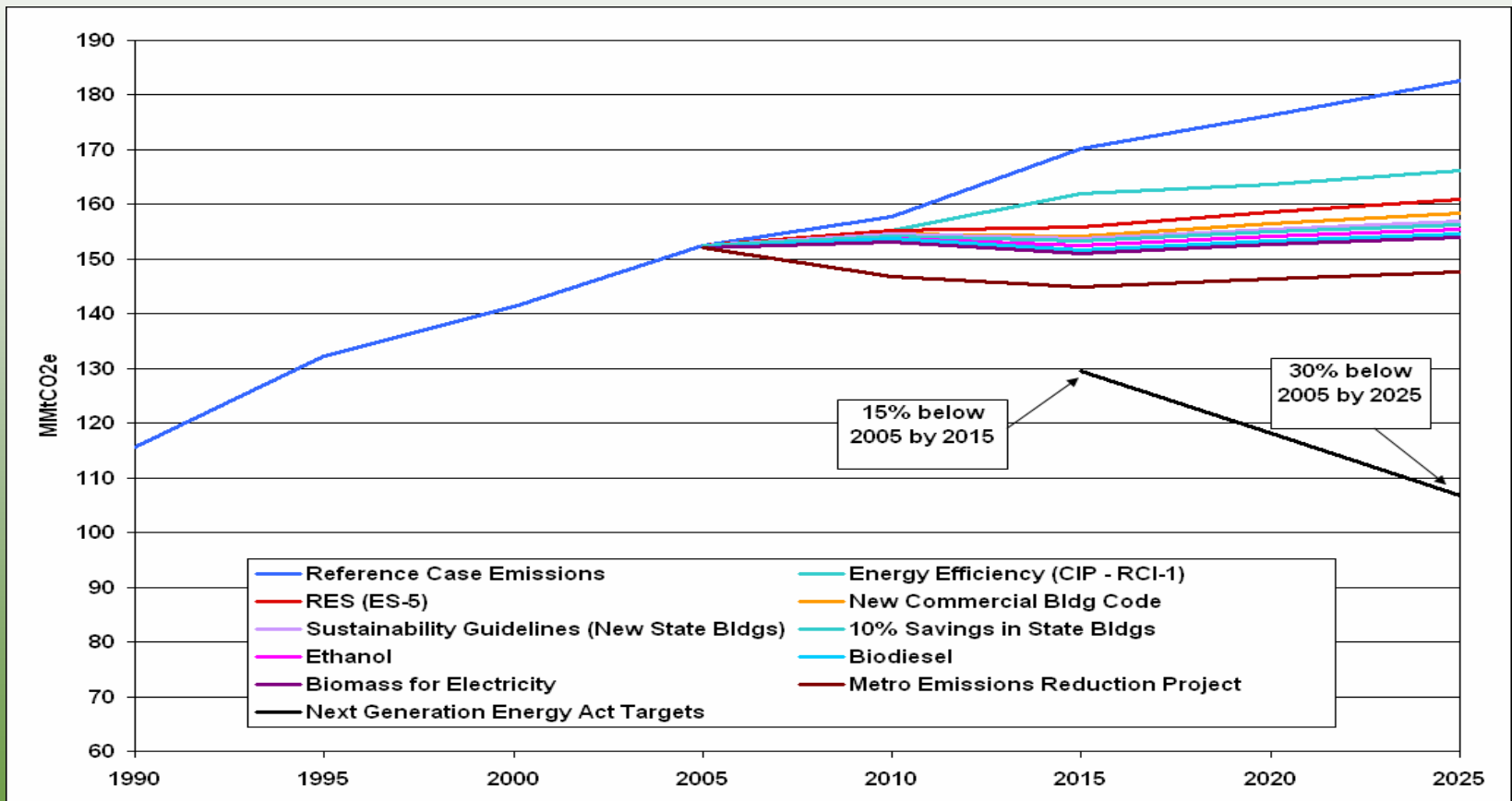
Goals for MCCAG Meeting #8

- Meeting date: January 24, 2008
- Goals: Obtain MCCAG final approval of TWG straw proposal for CC-2
- TWG Steps:
 - Final approval of straw proposals to forward to MCCAG

Gross MN GHG Emissions By Sector, 1990-2025



GHG Reductions – Existing Actions



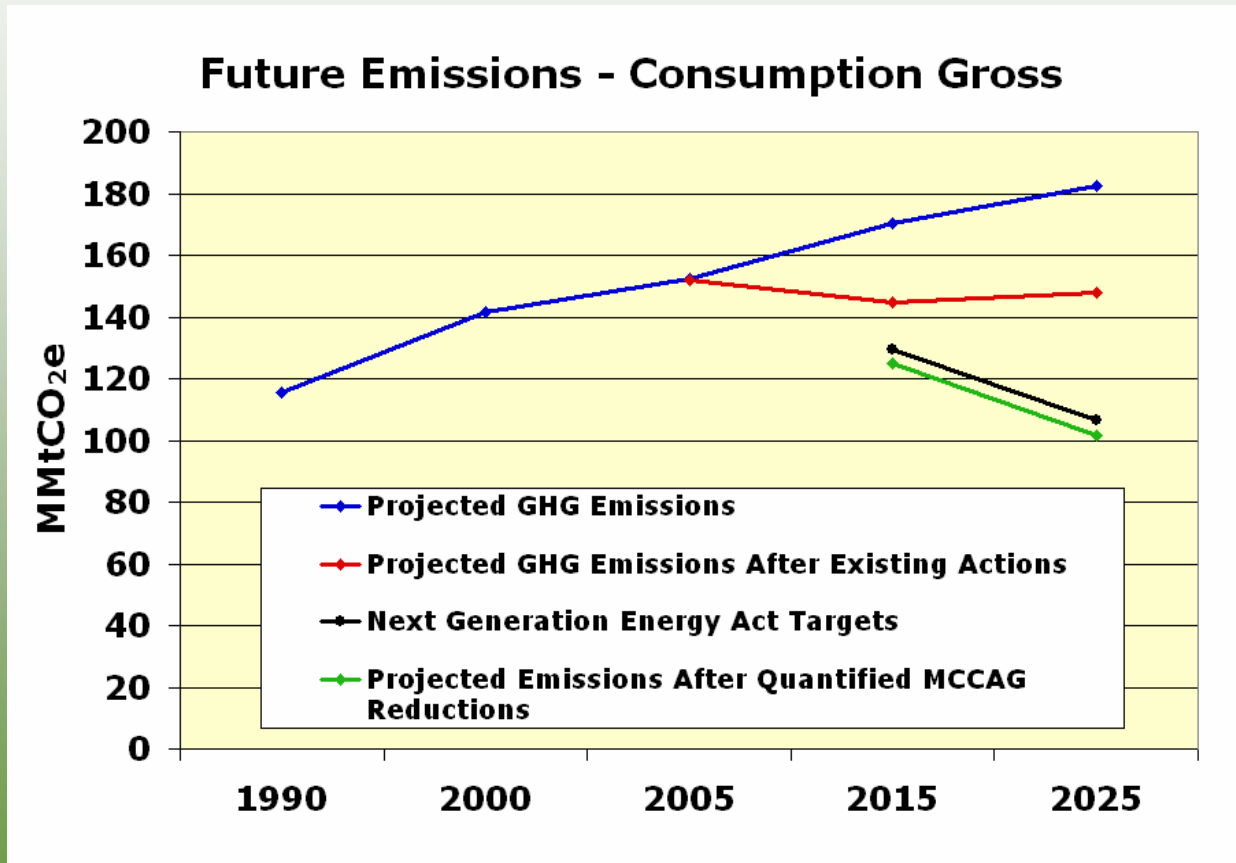
CC-2 GHG Reduction Goals and Targets

- Gross vs. Net (Sinks)
- Production vs. Consumption
- Emission Scenarios
- Levels
- Timing

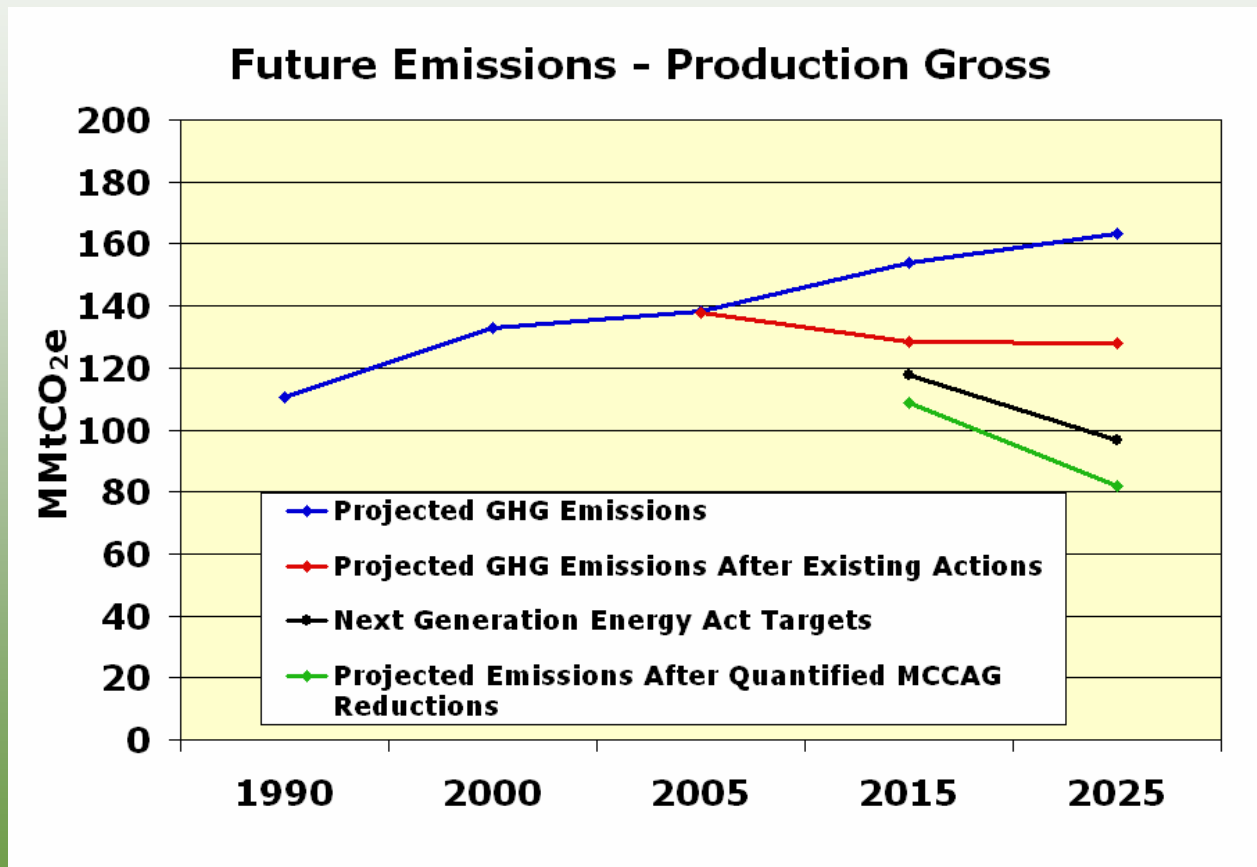
State, Province, or Region	1990-2020 GHG Forecast	State Goals	Climate Plan Coverage
Arizona	144%	<ul style="list-style-type: none"> • 2000 levels by 2020; 50% below by 2040 • 15% below 2005 levels by 2020 (WCI) 	106%
California	40%	<ul style="list-style-type: none"> • E.O.: 2000 level by 2010; 1990 by 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	52%	<ul style="list-style-type: none"> • 1990 level by 2020; 80% 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

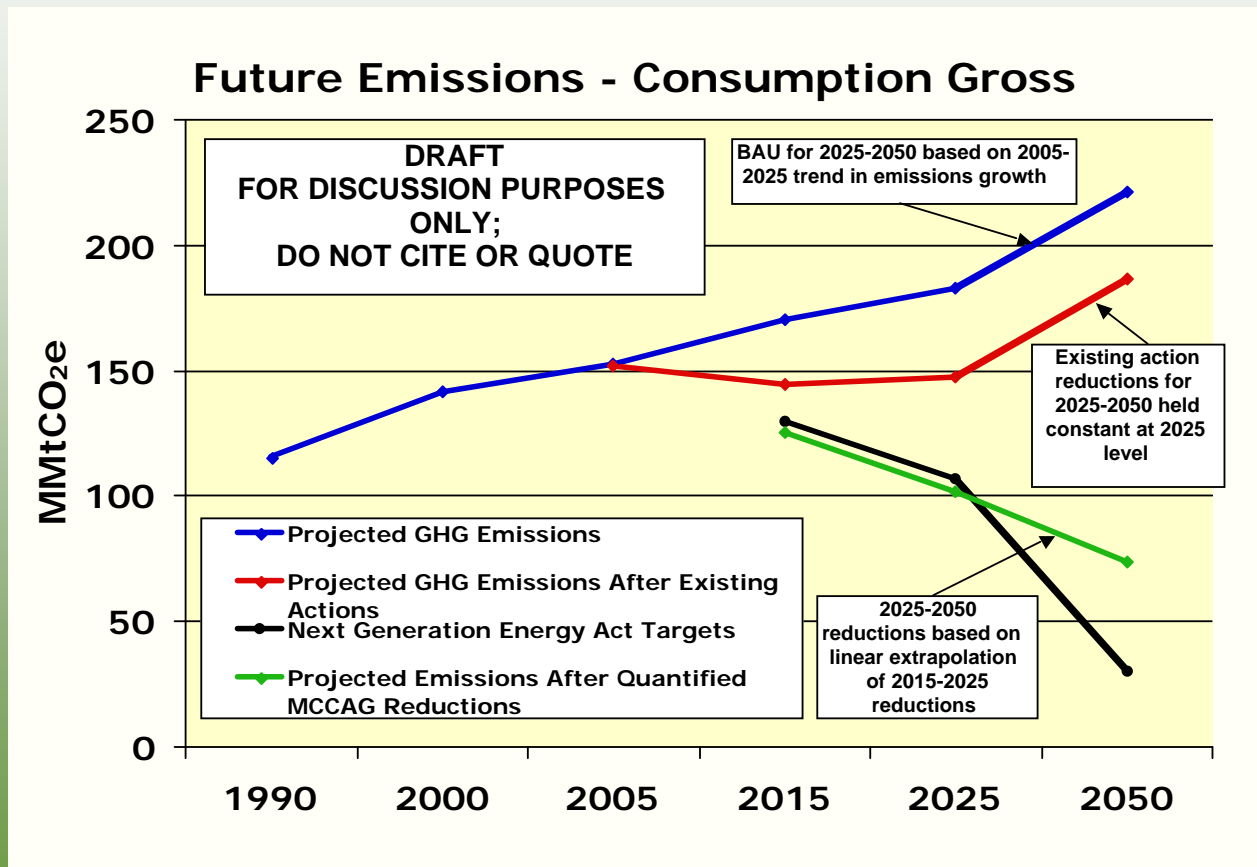
MN GHG Targets 2025



MN GHG Targets 2025



MN GHG Targets 2050



Draft Results

Consumption Basis - Gross / Net Emissions					
	1990	2000	2005	2015	2025
Projected GHG Emissions	115.7	141.4	152.4	170.2	182.7
Reductions from Existing Actions	0.0	0.4	0.4	25.4	35.0
Projected GHG Emissions After Existing Actions			152.0	144.8	147.7
Next Generation Energy Act Targets (NGEA)				129.6	106.7
Total GHG Reductions from MCCAG				19.8	46.2
Difference Between MCCAG Reductions & NGEA Targets				-4.6	-5.3
Projected Emissions After Quantified MCCAG Reductions				125.0	101.4
Production Basis Gross / Net Emissions					
	1990	2000	2005	2015	2025
Projected GHG Emissions	110.7	133.0	138.2	153.9	163.2
Reductions from Existing Actions	0.0	0.4	0.4	25.4	35.0
Projected GHG Emissions After Existing Actions			137.8	128.5	128.2
Next Generation Energy Act Targets (NGEA)				117.5	96.8
Total GHG Reductions from MCCAG				19.8	46.2
Difference Between MCCAG Reductions & NGEA Targets				-8.8	-14.8
Projected Emissions After Quantified MCCAG Reductions				108.7	81.9

Final Report Process

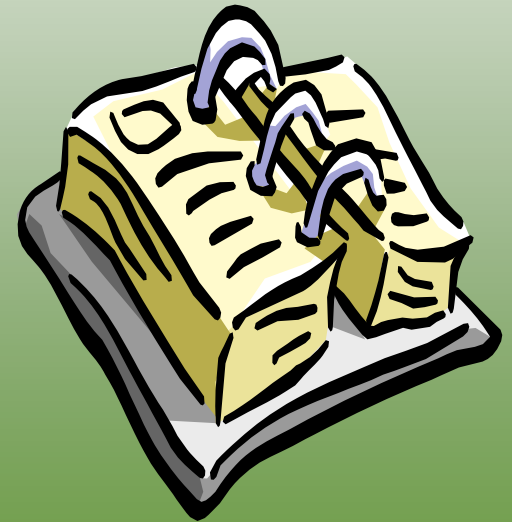
- Production of first draft of full report and appendices by CCS for MCCAG review and comment
 - Technical appendices from TWG policy option templates
 - Other technical appendices
 - Summary chapters based on these
 - Executive summary
- Final draft completed by CCS for final review and comment
- Report transmitted by CCS to DOC and PCA on behalf of MCCAG

Next Steps for CC TWG

- Finalize the CC Policy Option Descriptions

Next TWG Call

- Date and Time
 - TBD, if needed



Public Input, Announcements