



# Iowa Climate Change Advisory Council

Cross-Cutting Issues Subcommittee  
Meeting #13

October 29, 2008

Iowa Department of Natural Resources  
The Center for Climate Strategies

October 29, 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. Goals for ICCAC Meeting #7- November 10, 2008
5. Review Quantification Results from Subcommittees
6. Develop a Proposal for Consideration by ICCAC for GHG Reduction Goals and Targets to include in Policy Option CC-2 [Decision Item]
7. Review of Next Steps
8. Agenda, Date, and Time for Next Meetings [Decision Item]
9. Public Comments
10. Announcements

# Approval of Last Call Summary

- See Draft Summary

# 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

# 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
- Copy-Edit Changes Only
- All Options Approved by ICCAC, Except CC-2 Statewide GHG Reduction Goals and Targets

# IA GHG Reduction Goals

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

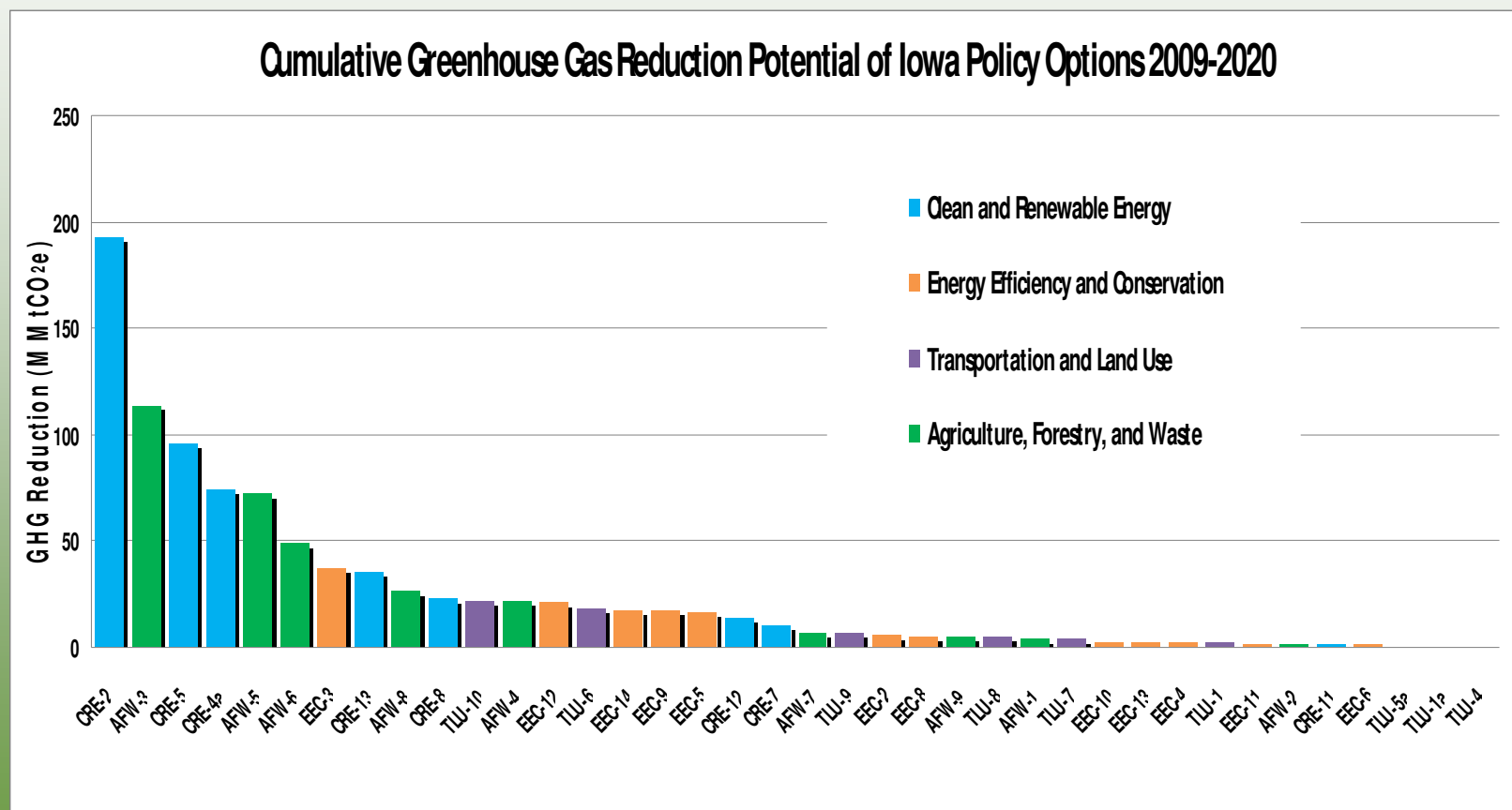
<b>State, Province, or Region</b>	<b>1990-2020 GHG Forecast</b>	<b>State Goals</b>	<b>Climate Plan Coverage</b>
Arizona	144%	<ul style="list-style-type: none"> <li>• 2000 levels by 2020; 50% below by 2040</li> <li>• 15% below 2005 levels by 2020 (WCI)</li> </ul>	106%
California	40%	<ul style="list-style-type: none"> <li>• E.O.: 2000 level by 2010; 1990 by 2020; 80% below 1990 by 2050</li> <li>• AB-32: 1990 levels by 2020</li> <li>• 15% below 2005 levels by 2020 (WCI)</li> </ul>	100%
Colorado	71%	<ul style="list-style-type: none"> <li>• 20% below 2005 level by 2020; 80% below by 2050</li> </ul>	75%
Connecticut	32%	<ul style="list-style-type: none"> <li>• 1990 level by 2010; 10% below by 2020; 75% below by 2050</li> </ul>	100%
Florida	?	<ul style="list-style-type: none"> <li>• 2000 level by 2017; 1990 level by 2025; 80% below 1990 by 2050</li> </ul>	?
Massachusetts	?	<ul style="list-style-type: none"> <li>• 1990 level by 2010; 10% below by 2020; 75% below by 2050</li> </ul>	?
Maine	34%	<ul style="list-style-type: none"> <li>• 1990 level by 2010; 10% below by 2020; 75% below by 2050</li> </ul>	100%
Maryland	42%	<ul style="list-style-type: none"> <li>• Recommended: 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.</li> </ul>	100%
Minnesota	48%	<ul style="list-style-type: none"> <li>• Next Generation Energy Act: 15% below 2005 levels by 2015; 30% by 2025; 80% by 2050</li> </ul>	TBD
Montana	30%	<ul style="list-style-type: none"> <li>• 1990 level by 2020; 80% below by 2050 (consumption &amp; production)</li> </ul>	89%-105%
North Carolina	113%	?	TBD
NEG/ECP	?	<ul style="list-style-type: none"> <li>• 1990 level by 2010; 10% below by 2020; 75% below by 2050</li> </ul>	TBD

<b>State, Province, or Region</b>	<b>1990-2020 GHG Forecast</b>	<b>State Goals</b>	<b>Climate Plan Coverage</b>
New Jersey	28%	<ul style="list-style-type: none"> <li>• E.O. 54: 1990 level by 2020; 80% below 2006 levels by 2050</li> </ul>	TBD
New Mexico	65%	<ul style="list-style-type: none"> <li>• 2000 level by 2012; 10% below by 2020; 75% below by 2050</li> <li>• 15% below 2005 levels by 2020 (WCI)</li> </ul>	133%
New York	24%	<ul style="list-style-type: none"> <li>• 5% below 1990 by 2010</li> </ul>	?
Ontario	?	<ul style="list-style-type: none"> <li>• 6% below 1990 by 2014</li> </ul>	n/a
Oregon	61%	<ul style="list-style-type: none"> <li>• 10% below 1990 by 2020; 75% below 1990 by 2050</li> <li>• 15% below 2005 levels by 2020 (WCI)</li> </ul>	85%
Puget Sound	37%	<ul style="list-style-type: none"> <li>• 1990 level by 2010; 10% below by 2020; 75% below by 2100</li> </ul>	100%
Rhode Island	35%	<ul style="list-style-type: none"> <li>• 1990 level by 2010; 10% below by 2020; 75% below by 2050</li> </ul>	100%
South Carolina	87%	<ul style="list-style-type: none"> <li>• 5% below 1990 levels by 2020 (voluntary)</li> </ul>	99%
Vermont	26-59%	<ul style="list-style-type: none"> <li>• 25% below 1990 levels by 2012; 50% below 1990 by 2028; 75% below by 2050</li> </ul>	TBD
Utah	95%	<ul style="list-style-type: none"> <li>• 15% below 2005 levels by 2020 (WCI)</li> </ul>	TBD
Washington	40%	<ul style="list-style-type: none"> <li>• E.O.: 1990 levels by 2020; 25% below 1990 by 2035; 50% below 1990 by 2050</li> <li>• 15% below 2005 levels by 2020 (WCI)</li> </ul>	TBD
WCI	54%	<ul style="list-style-type: none"> <li>• 15% below 2005 levels by 2020 (AZ, NM, CA, OR, UT, WA, BC, MB)</li> </ul>	TBD
British Columbia	69%	<ul style="list-style-type: none"> <li>• 15% below 2005 levels by 2020 (WCI)</li> </ul>	TBD
Manitoba	TBD	<ul style="list-style-type: none"> <li>• 15% below 2005 levels by 2020 (WCI)</li> </ul>	TBD

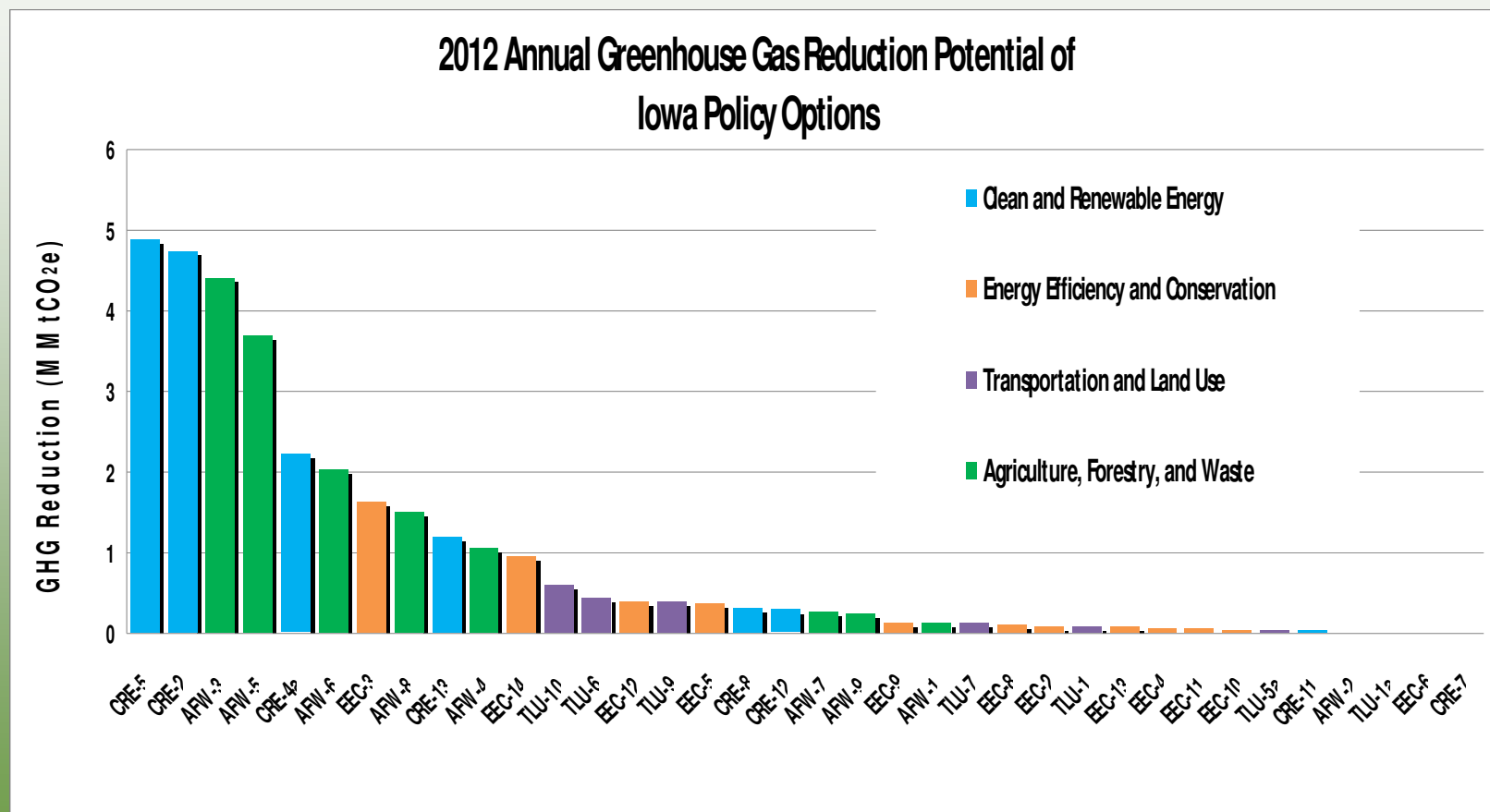
# ICCAC Actions Draft Cumulative Results

Sector	2012 MMtCO <sub>2</sub> e	2020 MMtCO <sub>2</sub> e	2009-2020 MMtCO <sub>2</sub> e	Million \$ NPV 2009- 2020	\$/tCO <sub>2</sub> e
EEC (RCI Fuels; Non-Electric)	1.1	8.5	42.8	-\$1,057	-\$25
CRE	5.8	48.0	233.5	\$5,921	\$25
TLU	1.6	11.1	55.0	-\$2,219	-\$40
AFW	11.3	37.2	232.4	\$2,019	\$8.7
CC					
<b>Total</b>	<b>19.8</b>	<b>104.9</b>	<b>563.8</b>	<b>\$4,665</b>	<b>\$8.3</b>

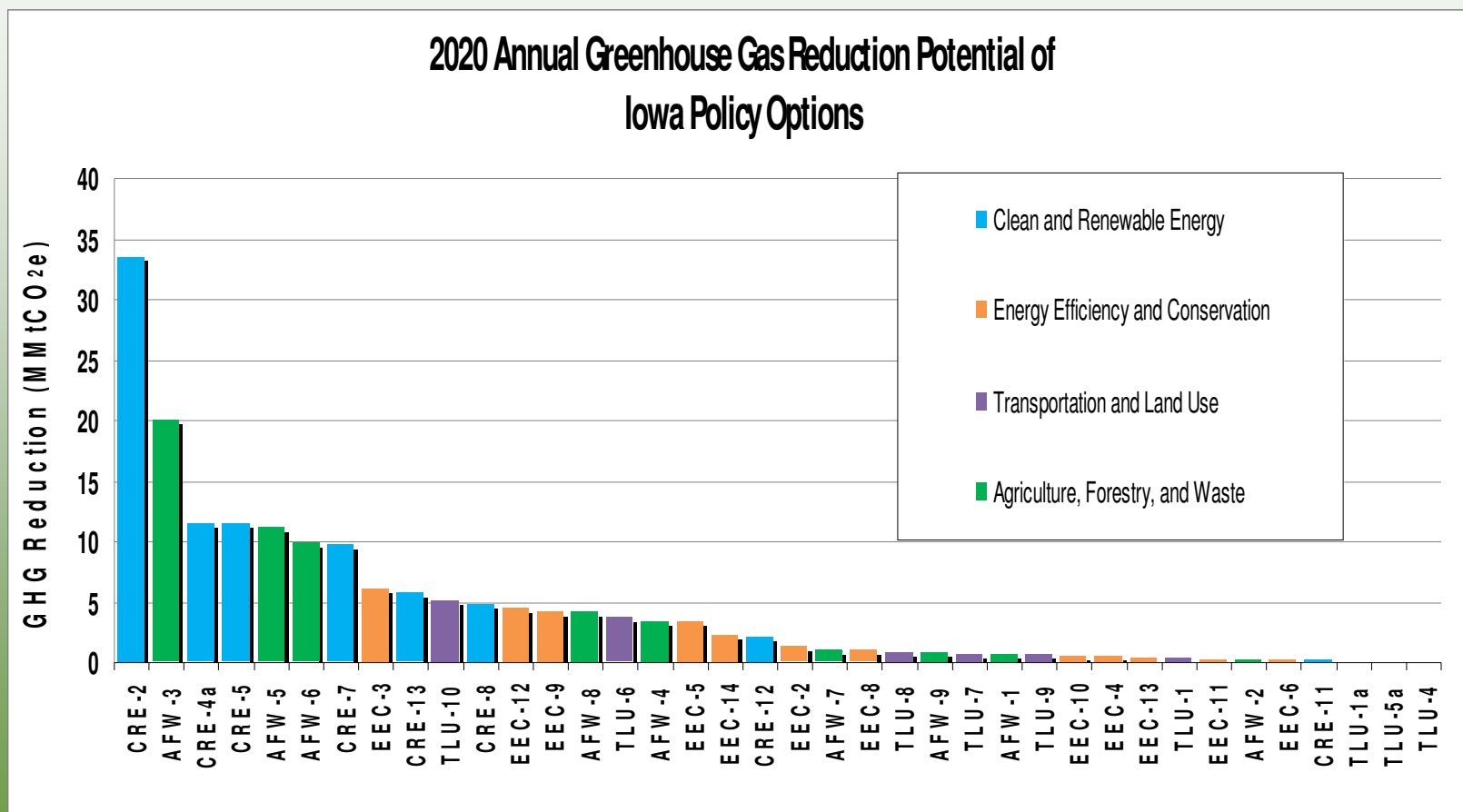
# Cumulative Greenhouse Gas Reduction Potential of Iowa Policy Options 2009-2020



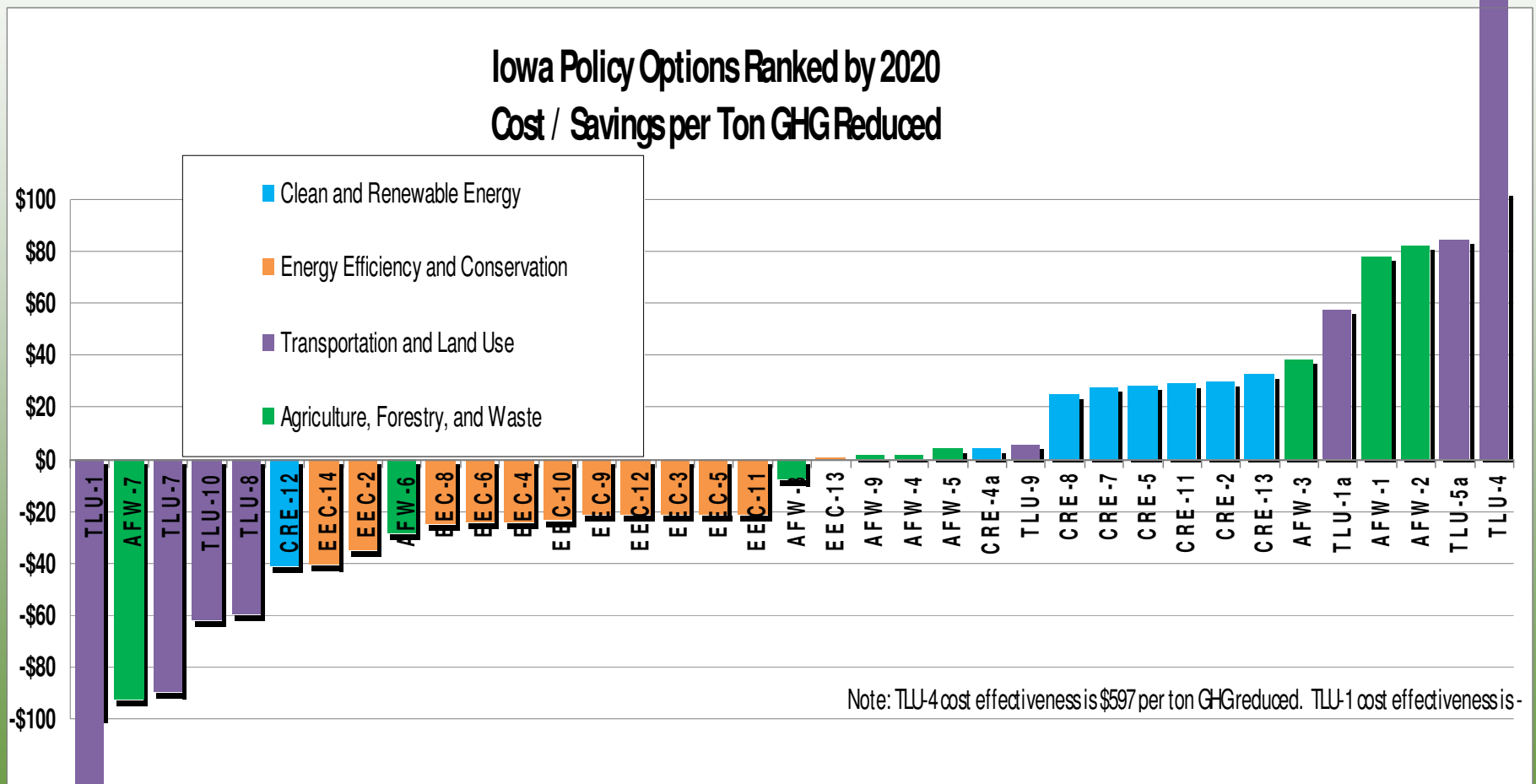
# 2012 Annual Greenhouse Gas Reduction Potential of Iowa Policy Options



# 2020 Annual Greenhouse Gas Reduction Potential of Iowa Policy Options



# Iowa Policy Options Ranked by 2020 Cost / Savings per Ton GHG Reduced

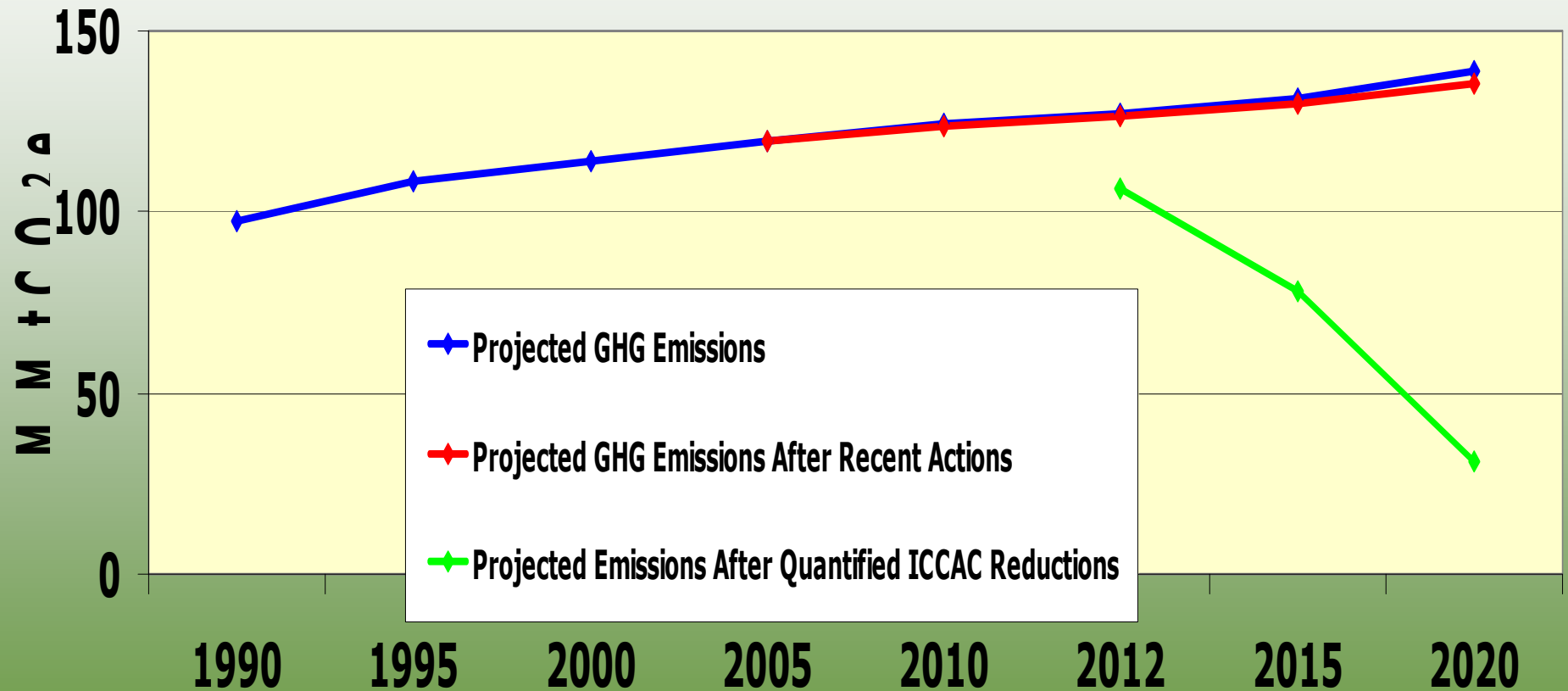


# ICCAC Actions

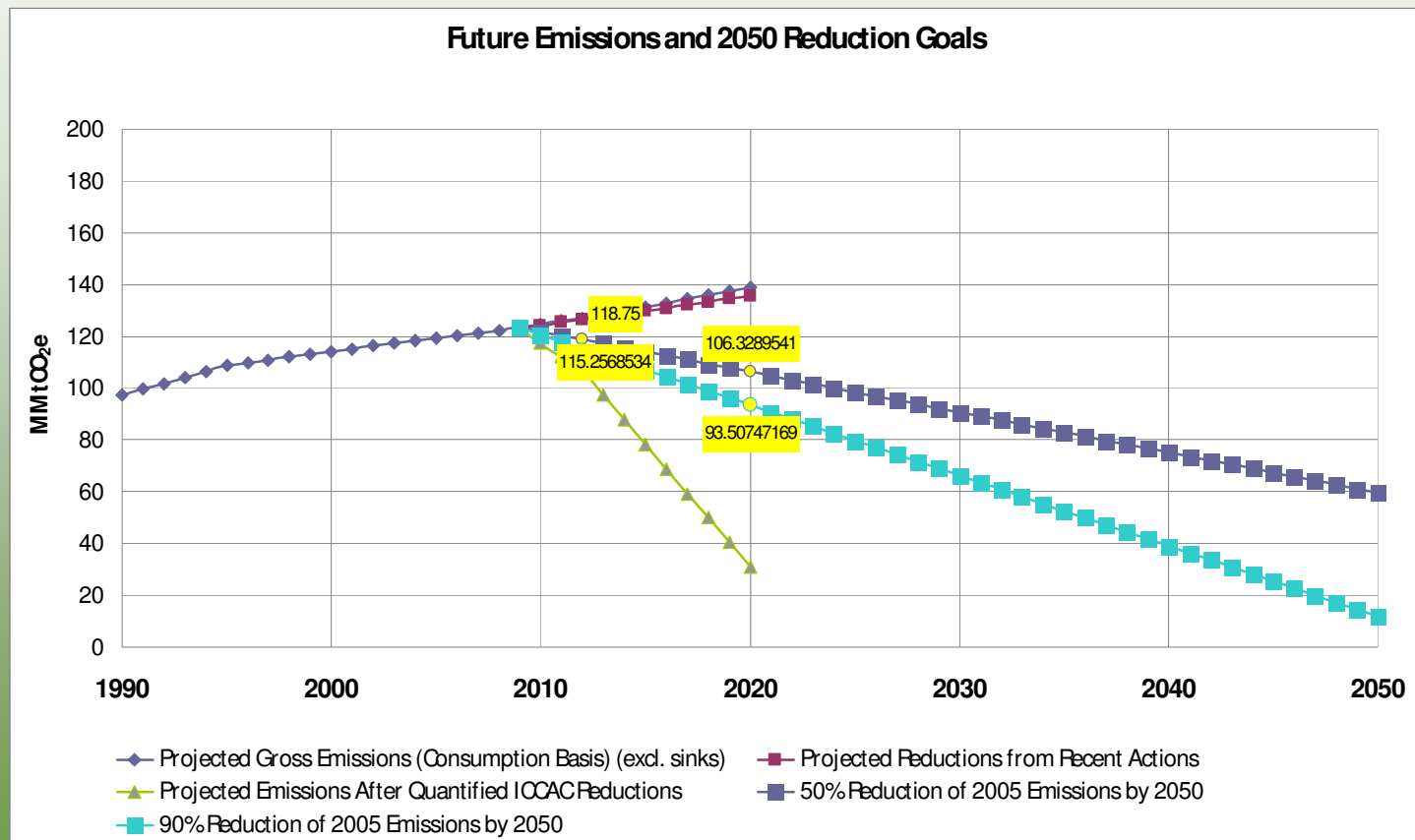
## Draft Results- Gross Emissions

<b>Consumption Basis - Gross Emissions</b>								
	<b>1990</b>	<b>1995</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2012</b>	<b>2015</b>	<b>2020</b>
Projected GHG Emissions	97.3	108.7	114.2	119.5	124.4	127.3	131.4	139.1
Reductions from Recent Actions				0.0	0.3	0.7	1.6	3.3
Projected GHG Emissions After Recent Actions				119.5	124.1	126.6	129.8	135.7
GHG Reduction Goal Recommended by ICCAC								
Total GHG Reductions from ICCAC Policies						19.8	51.8	104.9
Difference Between ICCAC Reductions & Targets								
Projected Emissions After Quantified ICCAC Reductions						106.7	78.1	30.8

# IA Future Emissions- Consumption Gross



# Future Emissions and 2050 Reduction Goals

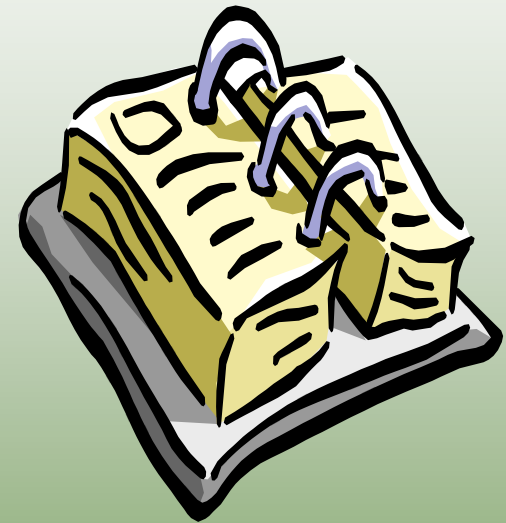


# Next Steps

- CC SC Develops Proposed GHG Reduction Goals and Targets for ICCAC Consideration
- ICCAC consideration of Proposed Policy Options, Quantification Results and GHG Goals and Targets
- Final Report Development

# Next Subcommittee Meeting

- Agenda:
  - Respond to any potential changes from ICCAC related to GHG Reduction Goals and Targets, if needed
- Date: TBD



# ICCAC Meeting Schedule

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

# Public Input, Announcements