



MINNESOTA
Climate Change
Advisory Group



Minnesota Climate Change Advisory Group

ENERGY SUPPLY

Technical Work Group Meeting #6

September 13, 2007

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

Today's Agenda

- Call to order
- Roll Call of TWG members and public
- Review and approval of summary of TWG Meeting #5 (August 23, 2007)
- Review of MCCAG Process and Next Steps
- Discussion of Subgroup Straw Proposals
- Continued Review of MN GHG Inventory & Forecast
- Proposed agenda, time and date for NEXT meeting
- Public input and announcements

Roll Call

- Call to order
- Roll Call of TWG members
- Roll Call of MN State Agency Staff
- Roll Call of Members of the Public

Prior Call Summary

- Review and Approval of the ES Call #5 Summary (Aug 23, 2007)

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

Review of MN CCAG Process

From August 2nd

- August 2nd, CCAG reviewed prioritization of the options from TWG
- CCAG made some changes and/or suggestions to priority list
- CCAG passed all suggested options back to TWG for development of straw proposals.
- TWG to draft straw proposals and present to CCAG on September 27th

ES-1 Generation Performance Standards or Mitigation Requirements

- **Subgroup Leader:** Eric Olsen
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-2 Improve GHG Profile of Biofuels and Fossil Fuels

- **Subgroup Leader: Steve Polasky**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-3: Efficiency Improvements, Repowering and Other Upgrades to Existing Plants

- **Subgroup Leader: Barbara Freese**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-4: Transmission System Upgrading

- **Subgroup Leader: Bob Jagush**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-5 Renewable and/or Environmental Portfolio Standard

- **Subgroup Leader: Bill Heaney**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-6 Nuclear Power Support and Incentives

- **Subgroup Leader: David Sparby**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-7 Advanced Fossil Fuel Technology Incentives, Support

- **Subgroup Leader: Dick Stone**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-8 Energy Performance Disclosure

- **Subgroup Leader: Bill Grant**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-9 Large-scale, Supply-oriented Combined Heat and Power & Geothermal

- **Subgroup Leader: Eric Olsen**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-10 Voluntary GHG Targets

- **Subgroup Leader: Dave McMillan
(Mike Cashin)**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for
Changes**
- **Next Steps for Subgroup**

ES-11 Carbon (GHG) Tax

- **Subgroup Leader: Mike Robertson**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-12 Distributed Renewable Energy Incentives and/or Barrier Removal

- **Subgroup Leader: Barbara Freese**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

ES-13 Technology-Based Approaches

- **Subgroup Leader: David Sparby**
- **Presentation of Draft to TWG**
- **Discussion and Suggestions for Changes**
- **Next Steps for Subgroup**

Further Review of Draft RCI GHG Inventory and Forecast

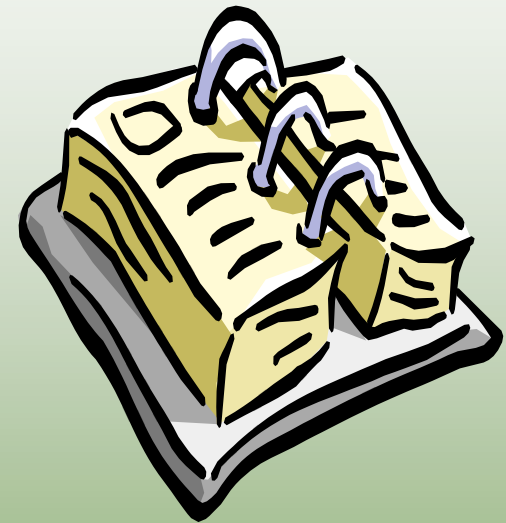
- GHG inventory and forecast spreadsheets available on the ES TWG website
- During MCCAG process will:
 - Extend forecast to 2025
 - Incorporate revisions recommended by TWG as approved by MCCAG
 - Incorporate effects of “Next Generation Energy Act of 2007”, as applicable to ES sectors

Next Steps

- Refine Straw Proposals for Presentation to CCAG

Next TWG Meeting

- Teleconference #7
- Agenda:
 - Review Outcomes of CCAG Meeting
 - Develop Quantification Approaches
- Next Call: October 11th from 10 to Noon
- Future Teleconferences:
 - October 25th from 10 to Noon
 - November 28th from 10 to Noon
 - December 6th from 10 to Noon



Public Input, Announcements