



MINNESOTA
Climate Change
Advisory Group



Minnesota Climate Change Advisory Group

Energy Supply Technical Work Group
Meeting #2

June 11, 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 call #1 (May 17, 2007) (on website)
- Implications of Article 5 of MN's next Generation Energy Bill
- Feedback on draft ES inventory and forecast
- Feedback on updated version of the MN ES GHG mitigation catalog and option descriptions
- Proposed agenda, time and date for NEXT meeting
- Public input and announcements

Article 5 of MN's Next Generation Energy Bill - Status

- Available at <http://www.revisor.leg.state.mn.us/bin/bldbill.php?bill=S0145.2.html&session=ls85>
- Review of Major provisions
 - State goals for reductions of GHG emissions (2015, 2025, 2050) relative to 2005 levels
 - GHG cap and trade
 - New coal plants after 2009 and offsets

Article 5 of MN's Next Generation Energy Bill - Implications

- Implications for ES TWG
 - GHG Forecast revisions
 - Type of mitigation options
 - Scale of mitigation options
 - Regional cooperation in achieving GHG reductions
 - Potential priorities for ES TWG action

Draft ES GHG Inventory and Forecast - Feedback

- GHG inventory and forecast spreadsheets available on the ES TWG website
- Key issues identified thus far by ES TWG members:
 - Electricity imports and underlying assumptions
 - Manitoba hydro treatment
 - Electricity demand growth rate
 - Composition of coal usage
 - Biogenic carbon
 - Emission factors

Draft ES GHG Inventory and Forecast – Proposed Resolution

- Electricity imports and underlying assumptions
- Manitoba hydro treatment
- Electricity demand growth rate
- Composition of coal usage
- Biogenic carbon
- Emission factors

ES GHG mitigation option descriptions

- Mitigation option descriptions available on website
- Major categories
 - Emissions policies and overarching items
 - Renewable energy and energy efficiency
 - Fossil fuel and nuclear electricity
 - Fuel production, processing, and delivery
 - Carbon capture and storage or reuse (CCSR)
 - Other energy supply options
- Options within each of the above categories
 - Review and discussion of each mitigation option, as needed

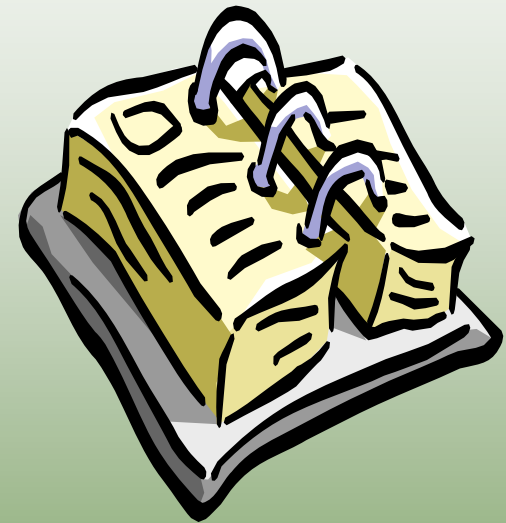
ES GHG mitigation option characterizations

- Mitigation option characterizations available on website
- Major indicators used
 - GHG emission reductions
 - Cost effectiveness
- Potential GHG emission reductions
 - Options with “low” potential
 - Options with “medium” potential
 - Options with “high” potential
- Potential cost effectiveness (I.e., \$/tonne of CO₂e avoided)
 - Options with “low” potential
 - Options with “medium” potential
 - Options with “high” potential

Next Steps

Next TWG Meeting

- Agenda:
 - Add missing actions to catalog
 - Complete review of Minnesota emissions inventory and projections
- Time and Date TBD



Public Input, Announcements