Update Report on Greenhouse Gas Emissions

Governor’s Climate Change Sub-Cabinet Meeting
February 13, 2008

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Percent Contribution of Greenhouse Gases

- Residential & Commercial: 7%
- Electricity: 6%
- Industrial -Ag: 3%
- Industrial -Oil & Gas: 29%
- Transportation -Marine: 5%
- Transportation -Aviation: 24%
- Transportation -On-road: 7%
- Industrial -Other: 15%
- Military: 2%
Climate Change Sub-Cabinet

Governor Palin

Alaska Climate Change Sub-Cabinet (Administrative Order 238)

Goals of a strategy:

a. Build State’s knowledge of actual and foreseeable climate effects;

b. Develop appropriate policies to prepare for impacts;

c. Assess opportunities to reduce emissions, consider benefits of participating in regional or national efforts.
Strategy: Tasks for Adapting to Climate Change

• Policies and measures to reduce likelihood or magnitude of damage to infrastructure - Admin Order #5;

• Policies and measures addressing foreseeable changes to marine environment; the quantity, quality, and location of fish and game; productivity of forest and Ag lands – Admin Order #6;

• Risks from new or more severe diseases and pests – Admin Order #7;

• Identify economic opportunities emerging from global response to a changing climate – Admin Order #14
Strategy: Tasks to Help Mitigate the Causes

- Identify potential benefits of participating in regional, national or international climate policy agreements, #9;
  
- Identify opportunities to reduce GHG emissions via alternative fuels, energy efficiency, conservation, and renewable energy sources, transportation sources or land use, # 10;
  
- Opportunities to reduce GHG emissions from State gov’t operations, #12;
  
- Identify opportunities in carbon trading markets, carbon sequestration, #13;
  
- Identify economic opportunities emerging from global response to a changing climate, #14
Roles & Responsibilities

• Sub-Cabinet to prepare Alaska’s Strategy for the Governor

• Stakeholder Advisory Groups provide recommendations to the Sub-Cabinet
  – Immediate Action Group for high threats to life & infrastructure
  – Adaptation Group for protecting and adapting to foreseeable impacts
  – Mitigation Group to reduce our contribution of emissions
  – Research Needs Group for making wise choices in Adaptation and Mitigation; identifying essential research

• Technical Work Groups advise Adaptation and Mitigation Groups

• Advisory and Technical Groups composed of community, native and business leaders; active citizens; non-governmental organizations; and federal and state and private sector experts.

• Public input into Advisory Groups and TWGs
• Contractors provide evaluative facilitation, technical expertise & final report
Overall Structure of Sub-Cabinet Efforts

Governor Palin

Alaska Climate Change Sub-Cabinet

Immediate Action Work Group
- Assisted by UA

Research Needs Work Group

Climate Change Adaptation Advisory Group

Climate Change Mitigation Advisory Group
- Assisted by Infolnsights & Center for Climate Strategies
Climate Change Adaptation Advisory Group

Broad stakeholder group of 20-25, e.g.,
- Native leader from western or northern AK
- Local government leader
- Coastal infrastructure & transportation experts
- Health expert
- Environmental / conservation leaders
- Wildlife & fisheries experts
- Extraction industry executive
- Seafood, insurance, tourism industry executives
- Forest / Agriculture experts
- University leader
- …many others

AO Tasks include:
- 5 - Ways to reduce damage to infrastructure
- 6 - Address marine, game & fish, ag & forests
- 7 - Risks of new/more disease & pests
- 14 - Economic opportunity in climate response
- 15 - Other policies and measures

Technical Work Groups (Subcommittees):
- a. To be determined
- b. To be determined
- c. To be determined
- d. To be determined
Climate Change Mitigation Advisory Group

Broad stakeholder group of 20-25, e.g.,
- Utilities exploring alternative/renewable energy
- Energy efficiency expert
- Renewable energy & efficiency advocate
- Renewable energy developer
- Transportation executive (air, freight, etc.)
- Commercial & residential developer/builder
- Oil & gas producer/refiner
- Native timber corporation executive
- Environmental & local government leaders
- Economic development expert
- …many others

Technical Work Groups (Subcommittees):
- Oil and Gas
- Energy Supply & Demand
- Transportation & Land Use
- Agriculture, Forestry, & Waste
- Cross-Cutting Issues

AO Tasks include:
- 9 - Regional, national, international actions
- 10 - Ways to reduce Alaska’s GHG emissions
- 12 - Ways to reduce State government GHGs
- 13 - Opportunities in carbon trading markets
- 14 - Economic opportunity in climate response
- 15 - Other policies and measures
Expectations of Project Contractors

• University of Alaska (Margaret King)
  – Facilitator for Immediate Actions WorkGroup & Research Needs WorkGroup

• Bipartisan Policy Center / National Commission on Energy Policy
  – Screening analysis to suggest Adaptation Issues
  – Similar work examples
  – See Handout for scope and expertise
Expectations of Project Contractors

• Center for Climate Strategies / Information Insights Team
  – Local Knowledge, Facilitation, Technical Expertise, Economic Assessments on climate change options
  – Supports Adaptation Advisory Group
  – Supports Mitigation Advisory Group