



State of Alaska
Governor's Climate Change Sub-Cabinet
Stakeholder Process

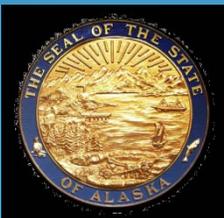
Public Infrastructure Technical Working Group

Alaska Forum on the Environment

February 2 – 6, 2009

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Alaska Division of Homeland Security
and Emergency Management





Focus: Policies and actions to protect Alaska's existing and future public infrastructure from the effects of a changing climate.

Public infrastructure is the *essential* facilities and utilities under public, cooperative or private ownership that deliver goods and services to communities.

Primary effects that pose primary risk to public infrastructure:

- increased flooding and erosion
- decreased duration and extent of sea ice
- increased wind and precipitation
- thawing permafrost
- increased fire risk

Option 1. Gather Data & Assess Vulnerability

- **Collect, assess and monitor data needed to develop sustainable solutions to adapt public infrastructure to the effects of a changing climate.**
 - Establish statewide inventory of public infrastructure
 - Analyze the vulnerability of public infrastructure to the hazards posed by climate change
 - Develop vulnerability assessment tools for statewide, regional and local use
 - Monitor and distribute updated information



Option 2. Coordinate Decisions

- A forum is needed to foster coordination, cooperation and communication among federal and state agencies and municipal and tribal governments.
- Oversee maintenance and retrofit of public infrastructure at significant risk. Ensure future infrastructure is located, funded and constructed in a sustainable manner.
- Develop model Adaptation Action Plans for community use.



Option 3: Enact Sustainable Solutions

- Modeling to analyze the effects of climate change on public infrastructure.
- Revise specific engineering designs, building codes, and construction techniques for new infrastructure and to strengthen structures in vulnerable areas.



Research Needs

- *Infrastructure databases must be identified, merged, gaps identified, and filled.*
- *Materials and design research and testing, identification of updated design and construction requirements for different locations.*
- *Adaptive climate change modeling*
- *If you have additional ideas on priority research needs for Public Infrastructure, please attend the: Climate Change Research Coordination Workshop
Thursday, Feb. 5, 9:15-4:45 pm [Dena'ina Center]*

Thank you!

Your Input is Welcome!

You may follow the progress of this TWG and the Advisory Group, or provide comments by visiting :

<http://climatechange.alaska.gov/>

Your input may also be submitted on
Comment Sheets available here at the AFE