



The Center for Climate Strategies

Helping States and the Nation Tackle Climate Change

Comprehensive, Stakeholder-Based State Climate Action Planning

Presentation to the Governor's
Climate Change Sub-Cabinet

November 6, 2007

Fairbanks, Alaska

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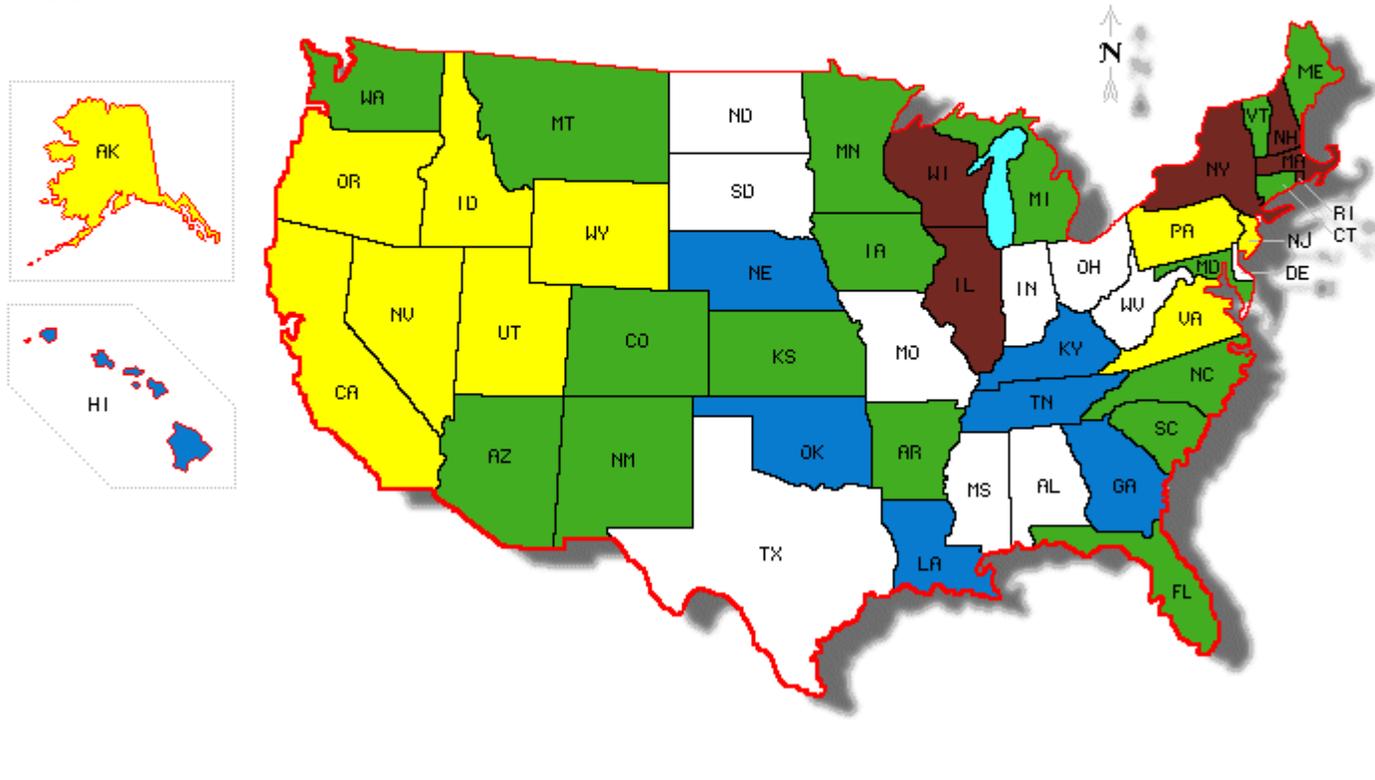
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Who is the Center for Climate Strategies?

- Non-profit focused on helping states develop comprehensive, stakeholder-driven climate action policies and plans.
- Typically work with senior state officials
 - Governors' offices, Commissioners, Cabinets
- Multiple areas of technical and policy expertise:
 - Process design, formation, management & facilitation, decision support, conflict resolution & consensus building, and capacity building.
 - Multiple skills and tools for identifying & evaluating policy options
- Virtual organization with ~30 expert partners
- Unparalleled expertise via work in more than 25 states

Where Has CCS Been Active?

- - Comprehensive Plans
- - Partial Plans
- - Initial Contact
- - Other Plans



CCAG Recommended Policy Options, by Quantified Cost Per Ton GHG Removed
 Cost savings are shown below the axis. Net costs are shown above the axis.

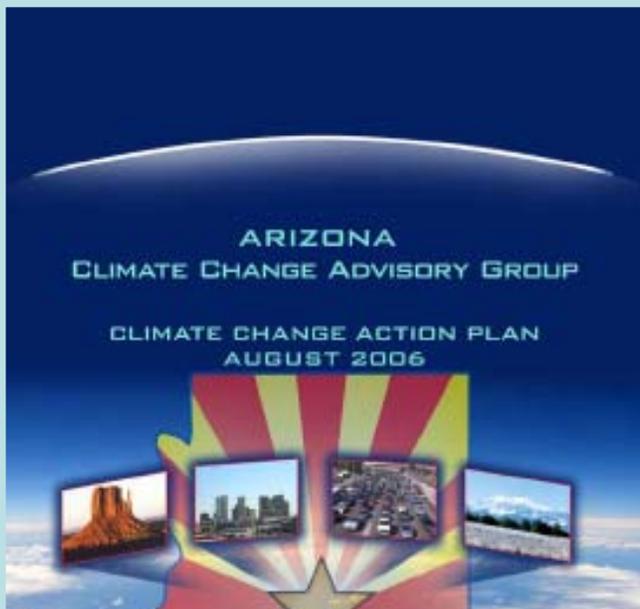
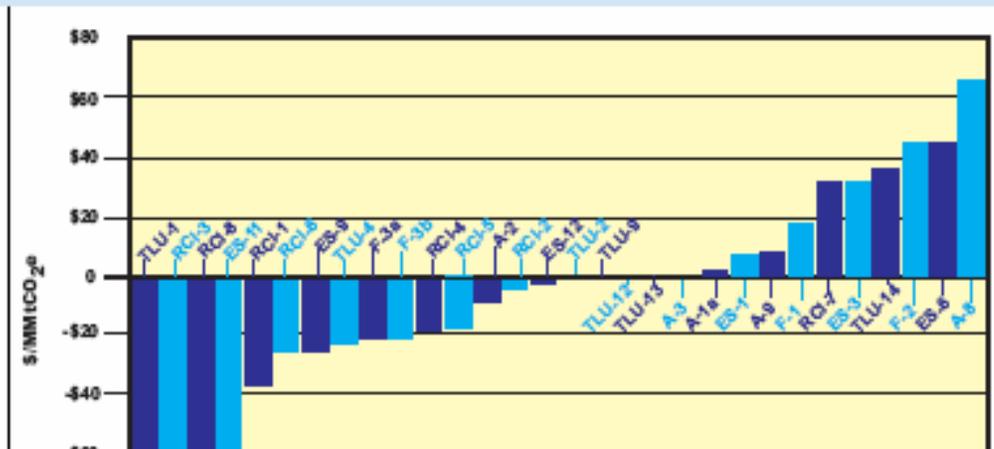


Table 1-3 Totals

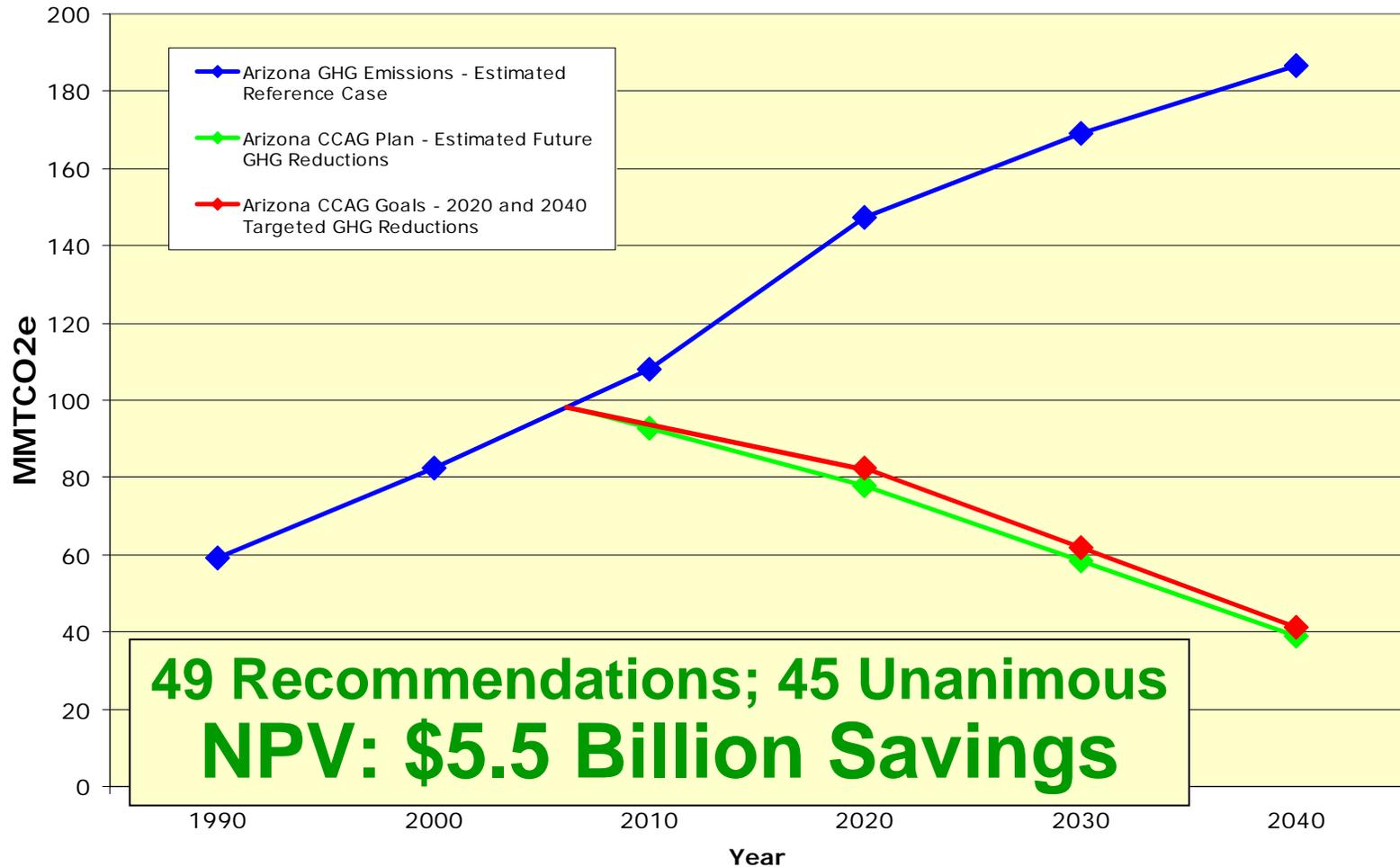
Total of all CCAG Options with Adjustments for Overlap (Detailed data may be found in the Tables presented in Chapters 4-8 and the Appendix)	2010 Annual GHG Reduction (MMtCO _{2e})	2020 Annual GHG Reduction (MMtCO _{2e})	2007-2020 Cumulative Reduction (MMtCO _{2e})
	15.4	69.4	485.4*

+285,000 jobs

The Center for Climate Strategies (CCS) has calculated overall net economic cost savings from the CCAG's policy option recommendations of more than \$5.5 billion from 2007-2020. The CCS also has calculated that the average cost for each ton of GHGs removed would be -\$12.74, meaning that there would be a net economic cost savings of \$12.74 for each ton of GHGs removed.¹⁵

Arizona – Climate Plan Results

AZ CCAG Goals vs. Estimated CCAG Plan Results



**49 Recommendations; 45 Unanimous
NPV: \$5.5 Billion Savings**

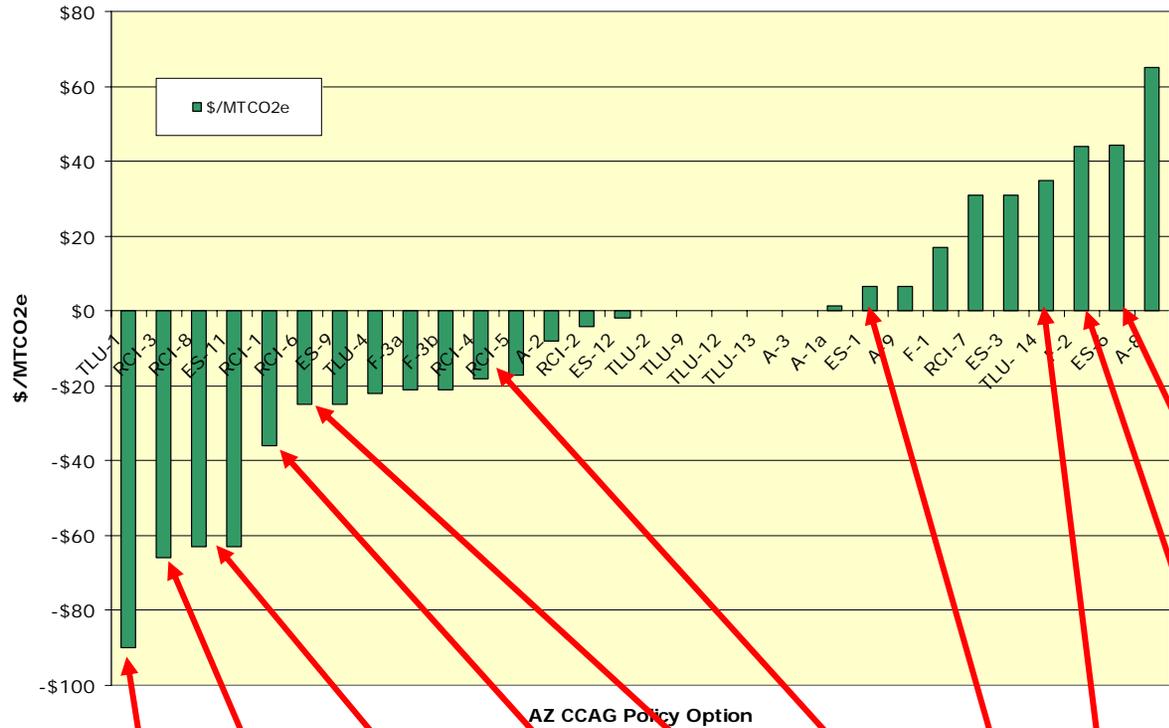
Similar Results in Other States...



- 69 Recommendations;
67 Unanimous
- NPV: \$2.1 Billion Savings
- Reductions exceeded
Governor's goals.

Typical GHG Reduction Strategies

AZ CCAG Options Ranked by \$/MTCO₂e 2007-2020



Clean Cars

Appliance Efficiency Standards

Electricity Pricing

DG & CHP

DSM

Building Codes

RPS

Truck Speed Limit

Increase Reforestation

Carbon Intensity Targets

Reduce Land Conversion

Process Design & Development (1)

- Prepare
 - *Inventory & Forecast*
 - Identify “catalog” of policy options
 - Identify policies already in place
- Design
 - Structure responsibilities, organization, coordination
 - Develop process design, select team & partners (e.g., UAA)
 - Identify stakeholder participants, and funding
 - Identify sector-based Technical Work Groups (subcommittees)
- Convene
 - *Executive orders and directives*
 - Launch stakeholder process

Process Design & Development (2)

- Conduct
 - Stepwise process (next slide); iterate to consensus
 - All transparent, with public involvement
- Conclude
 - Determine consensus levels
 - Draft final report and recommendations for the Sub-Cabinet
- Examples of state responses to recommendations
 - Plans for adoption or further development of policy
 - Follow up evaluation & analysis
 - Interagency coordination
 - Opportunities for cross-boundary cooperation
 - Legislative briefings; follow-up

Stepwise Stakeholder Process

- Develop/revise inventory and forecast of emissions
- Identify a full range of possible actions
- Identify initial priorities for analysis
- Develop straw proposals
- Quantify GHG reductions and costs/savings
- Evaluate feasibility issues; associated issues
- Develop alternatives if needed to address barriers
- Aggregate results
- Iterate to final agreements
- Finalize and report recommendations

Sectors x Mechanisms = A “Portfolio” of Policy Options

	Codes & Standards	Market Mechanisms	Funding Mechanisms	Voluntary Agreements	Technical & Financial Assistance	Information & Education	Pilots & Demo Projects	Reporting & Disclosure
Agriculture & Forestry								
Energy Supply								
Residential, Commercial, & Industrial								
Transportation & Land Use								
Waste Management								
Cross-Cutting Issues (Education, Registries, etc.)								

Policy Option Template

- Policy Description (Concept)
- Policy Design (Goals, Timing, Coverage)
- Implementation Methods
- Related Programs and Policies in Place
- Estimated GHG Reductions and Costs/Savings
 - Data Sources, Methods and Assumptions
 - Key Uncertainties
- Additional (non-GHG) Benefits and Costs, if any
- Feasibility Issues, if any
- Status Of Group Approval
- Level of Group Support
- Barriers to Consensus, if any

Roles & Responsibilities

- Climate Change Sub-Cabinet convened by Governor Palin under Administrative Order #238
- CCSC to provide recommendations to the Governor
- Stakeholder Groups provide recommendations to the CCSC
 - Suggest two distinct stakeholder processes:
 - Mitigation & Adaptation
- Subordinate Technical Work Groups (TWGs) advise the two Stakeholder Groups
- Public input into Stakeholder Group and TWG efforts
- CCS, assisted by UAA, provides evaluative facilitation & final report

Possible Structure:
Stakeholder Process for
Mitigation

Governor Palin

Governor's Sub-Cabinet on Climate Change

Alaska DEC
(Administrative Oversight)

Center for Climate Strategies & UAA
(Manage, Facilitate & Technical Analysis)

Climate Change Mitigation Advisory Group (~25-30 Alaskan stakeholders)

• Appointed Members	• Appointed Members	• Appointed Members	• Appointed Members	• Appointed Members
<p>Energy Supply Workgroup</p> <ul style="list-style-type: none"> • Interested Parties • Technical Experts <ul style="list-style-type: none"> • Public 	<p>Industrial, Commercial, Residential Energy Demand Workgroup(s)</p> <ul style="list-style-type: none"> • Interested Parties • Technical Experts <ul style="list-style-type: none"> • Public 	<p>Transportation & Land Use Workgroup</p> <ul style="list-style-type: none"> • Interested Parties • Technical Experts <ul style="list-style-type: none"> • Public 	<p>Forestry, Agriculture, & Waste Workgroup</p> <ul style="list-style-type: none"> • Interested Parties • Technical Experts <ul style="list-style-type: none"> • Public 	<p>Cross-Cutting Issues Workgroup</p> <ul style="list-style-type: none"> • Interested Parties • Technical Experts <ul style="list-style-type: none"> • Public

Likely Mitigation Tasks from AO 238

- #10: Opportunities to reduce GHG emissions
 - Alternative fuels, EE/RE, transportation & land use, etc.
- #12: Opportunities to reduce GHGs from state operations
 - “Lead by example”
- #15: Other opportunities and policies

And possibly, ...

- #3: Climate dialogue with the public
- #9: Potential participation in regional, national, int’l efforts
 - e.g., The Climate Registry, Western Climate Initiative, etc.
- #13: Potential participation in carbon markets
 - Including sequestration opportunities
- #14: Potential economic opportunities for Alaska

Possible Structure:
Stakeholder Process for
Adaptation

Governor Palin

Governor's Sub-Cabinet on Climate Change

Alaska DEC
(Administrative Oversight)

Center for Climate Strategies & UAA
(Manage, Facilitate & Technical Analysis)

Climate Change Adaptation Advisory Group (~25-30 Alaskan stakeholders)

• Appointed Members	• Appointed Members	• Appointed Members	• Appointed Members
Existing Built Infrastructure Technical Workgroup	Future Built Infrastructure Technical Workgroup	Health, Safety, & Welfare Technical Workgroup	Natural Resources Uses & Industries Technical Workgroup (Marine, Fish & Game, Forests & Agriculture)
<ul style="list-style-type: none"> • Interested Parties • Technical Experts • Public 	<ul style="list-style-type: none"> • Interested Parties • Technical Experts • Public 	<ul style="list-style-type: none"> • Interested Parties • Technical Experts • Public 	<ul style="list-style-type: none"> • Interested Parties • Technical Experts • Public

Likely Adaptation Tasks from AO 238

[Note: Still in active discussion...]

- #4: Early assessment and adaptation/vulnerability plans
- #5: Policies to reduce damage to Alaska's infrastructure
- #6: Impacts on marine environment, fish & game, and agriculture & forest lands
- #7: Evaluation & response to disease & pest risks

And possibly, ...

- #2: Prioritization of climate research in Alaska
- #8: Potential state and federal climate financing mechanisms

What About Existing Work Groups?

Mitigation:

- Alternative Energy and Energy Conservation

Adaptation:

- Immediate Action

Both:

- Research Needs

Possible Structure:

**Mitigation and
Alt. Energy/EC**

Governor Palin

Governor's Sub-Cabinet on Climate Change

Alaska DEC
(Administrative Oversight)

Center for Climate Strategies & UAA
(Manage, Facilitate & Technical Analysis)

Climate Change Mitigation Advisory Group (~25-30 Alaskan stakeholders)

• Appointed
Members

Energy

Alt. Energy
& Energy
Conservation
Members
& Tasks

• Appointed
Members

Industrial,
Commercial,
Residential
Energy
Demand

Workgroup(s)
• Interested Parties
• Technical Experts
• Public

• Appointed
Members

Transportation &
Land Use
Workgroup

• Interested Parties
• Technical Experts
• Public

• Appointed
Members

Forestry,
Agriculture,
& Waste
Workgroup

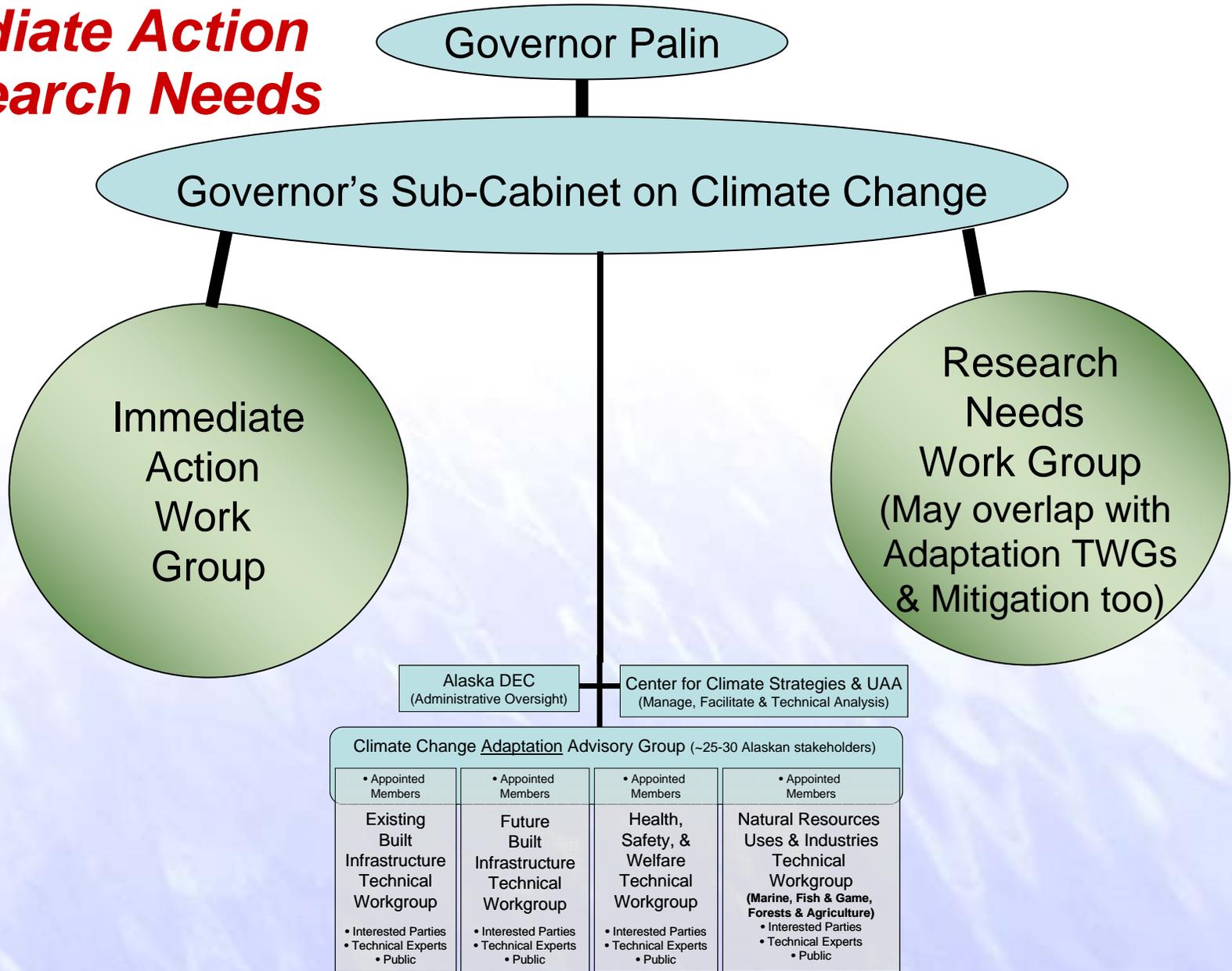
• Interested Parties
• Technical Experts
• Public

• Appointed
Members

Cross-
Cutting
Issues
Workgroup

• Interested Parties
• Technical Experts
• Public

Possible Structure:
**Immediate Action
 & Research Needs**



Climate Change Adaptation Advisory Group (~25-30 Alaskan stakeholders)			
Appointed Members	Appointed Members	Appointed Members	Appointed Members
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Prospective Timetable – *To Be Determined*

Date	Action
December 2007	Startup meetings of Advisory Groups
January 2008	2 nd MWG meeting – Catalog of Options
March 2008	3 rd MWG meeting – Approve Priorities
May 2008	4 th MWG meeting – Straw Proposals
July 2008	5 th MWG meeting – Initial Quantification
September 2008	6 th MWG meeting – Final Approvals
October 2008	Final Report to CCSC
Between Meetings	Regular TWG teleconference meetings and possible face-to-face meetings

Results of Stakeholder-Based Climate Action Planning Processes

- Policy recommendations tailored for Alaska by Alaskans
- Comprehensive, multi-sector results
- Broad consensus
- Quantified results for mitigation measures
- Groundwork for implementation
- No surprises
- Recommendations to CCSC
- Relationships built



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*Thank you
for your time
and attention!*