



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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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

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.

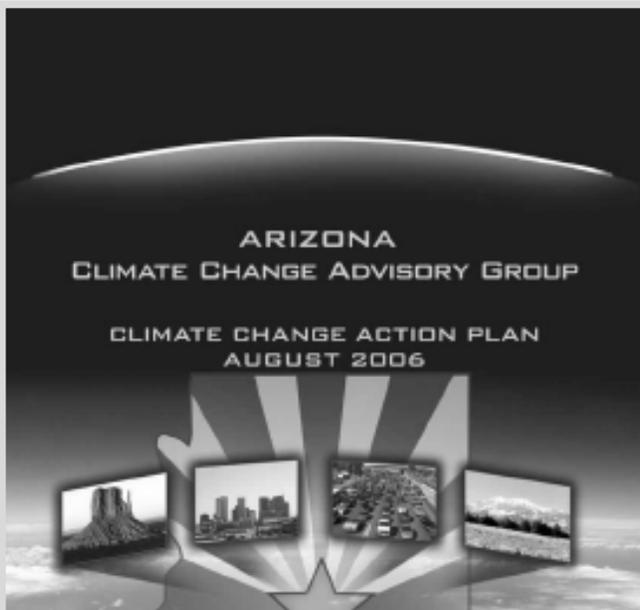
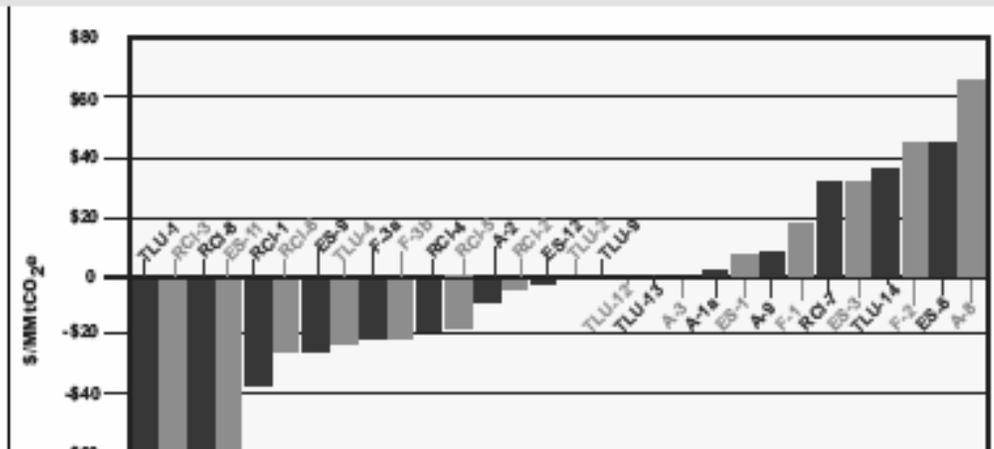


Table 1-3 Totals

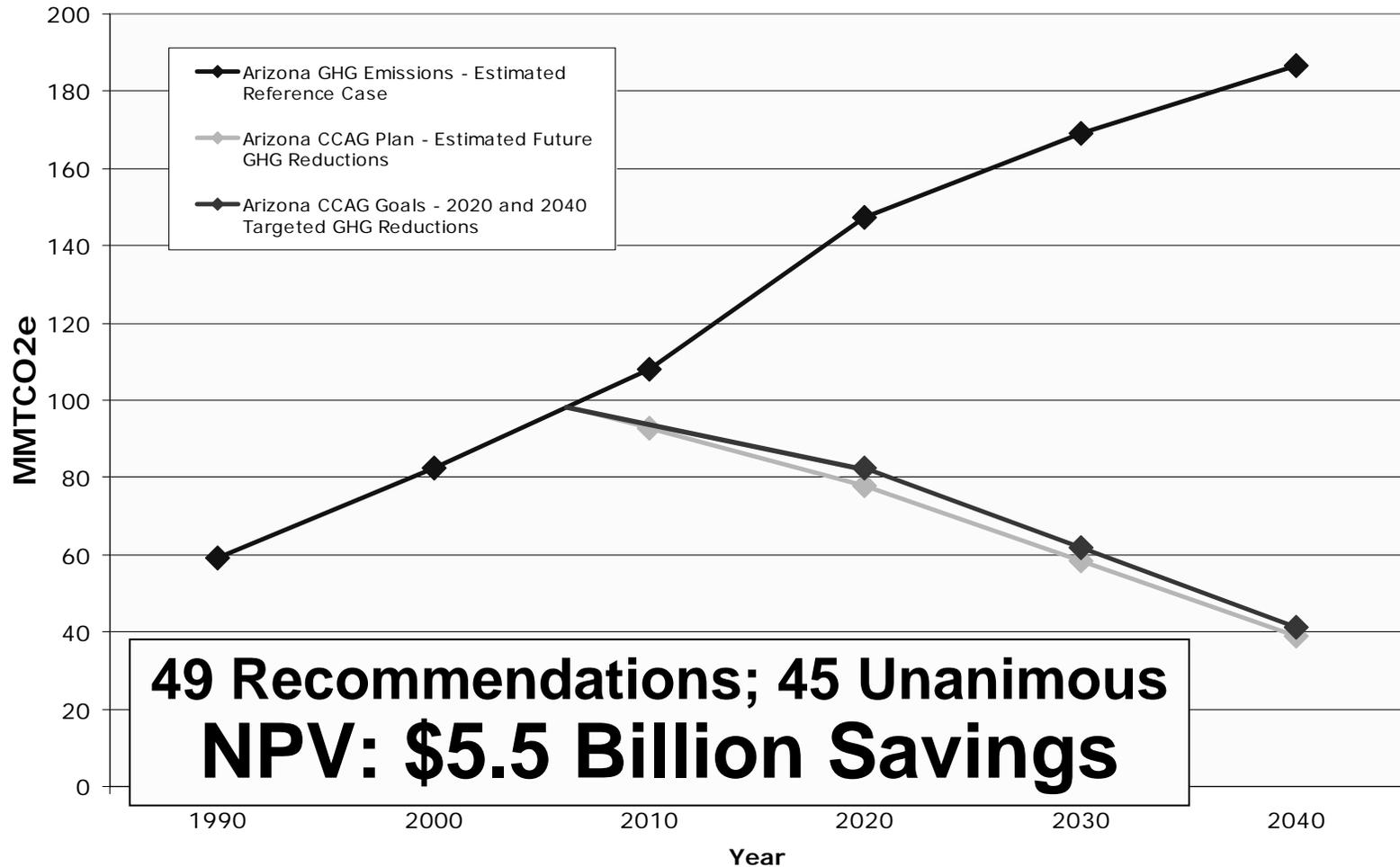
Total of all CCAG Options with Adjustments for Overlap (Detailed data may be found in the Tables presented in Chapters 4-8 and the Appendix)	2010 Annual GHG Reduction (MMtCO ₂ e)	2020 Annual GHG Reduction (MMtCO ₂ e)	2007-2020 Cumulative Reduction (MMtCO ₂ e)
	15.4	69.4	485.4*

+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**

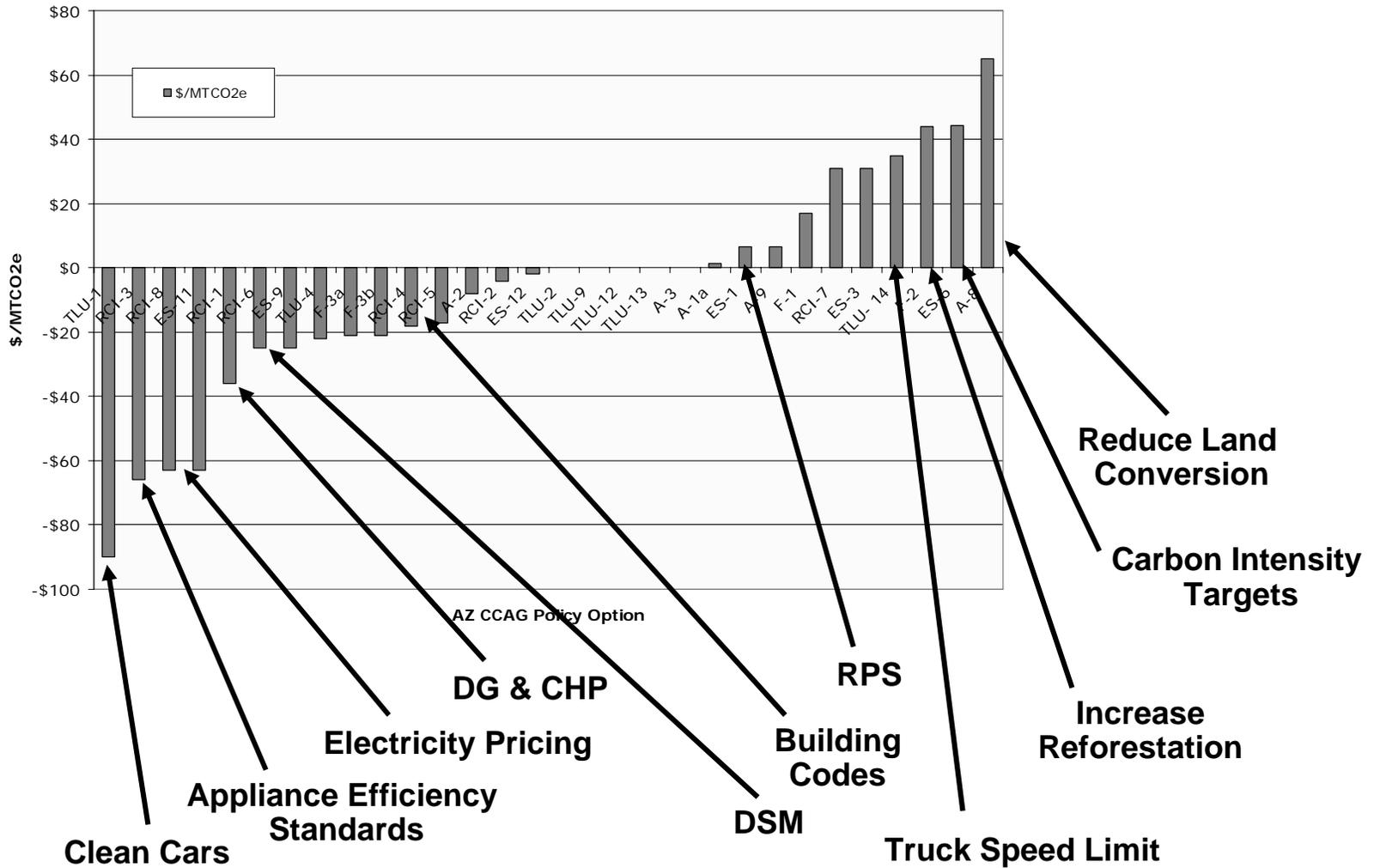
Similar Results in Other States...



- **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



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

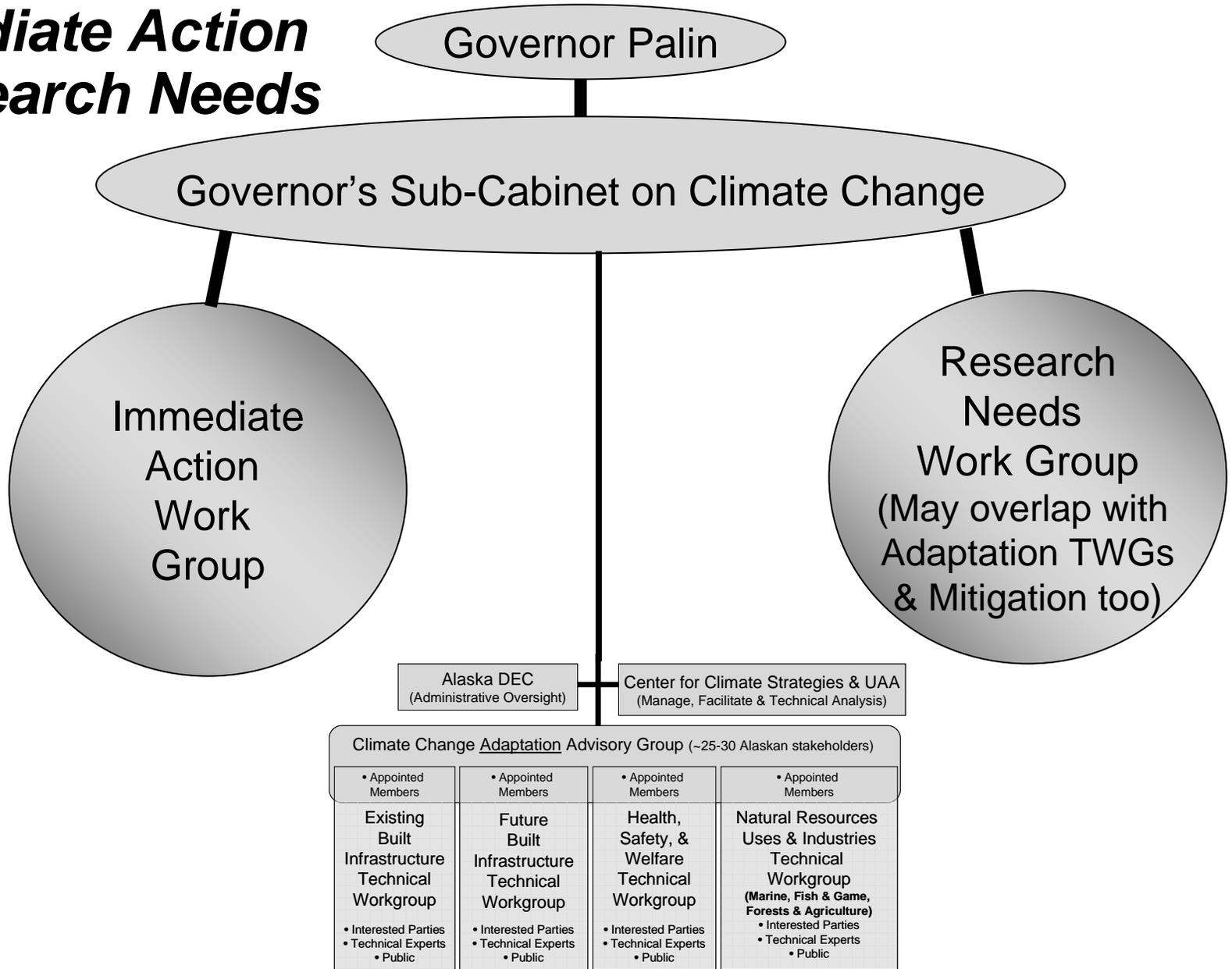
• Interested Parties
 • Technical Experts
 • Public

• Appointed
 Members

Cross-
 Cutting
 Issues
 Workgroup

• Interested Parties
 • Technical Experts
 • Public

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



Governor Palin

Governor's Sub-Cabinet on Climate Change

Immediate
Action
Work
Group

Research
Needs
Work Group
(May overlap with
Adaptation TWGs
& Mitigation too)

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)
• Interested Parties • Technical Experts • Public			

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!*