

ATTACHMENT B

JPC CLIMATE & ENERGY RESILIENCE PROJECT

WORK PLAN

REVISED SEPTEMBER 8, 2011

Project Goals:

1. Engage top-level Bay Area leaders—business, government, and NGOs— to accelerate and formalize regional efforts to build resilience for critical climate/energy impacts, e.g., sea level rise, extreme events, water shortages, long-term energy price increases.
2. Increase understanding on how to integrate planning for climate/energy resilience with Bay Area planning for economic development, public health, transportation, land use, natural resource protection, and earthquake/disaster recovery.
3. Create a set of near-term action steps and clearly identify the more complex issues that require high-level regional discussion.

Task 1

Summarize existing research on climate and energy changes that will have a substantial impact on the Bay Area's economy, ecosystems and public health.

Questions:

1. What changes in climate and energy systems—sea level rise, temperature, precipitation, etc.— have we observed in the Bay Area in recent decades?
2. What changes are projected and when are they expected to occur (scenarios)?
3. In what ways and to what degree will these changes affect the Bay Area—economy, public health, ecosystems, etc.?
4. Which populations, assets, and geographic areas may be most vulnerable?
5. What are the top research gaps?
6. Who are the key experts and practitioners for each task?
7. What are the 4-6 top climate and energy changes that will have the greatest impact in the next two decades in the Bay Area?

Part 1: Bay Area climate and energy changes

- Precipitation
- Temperature
- Extreme events
- Sea level rise/storm surge
- Ocean acidification
- Energy prices/supplies

Part 2: How these changes will directly impact the Bay Area

- Economy

- Public Health
- Ecosystems
- Energy
- Water
- Flooding
- Transportation
- Agriculture/Forestry
- Wildfires
- Emergency/disaster preparedness
- Impacts from global systems

Deliverables:

1. Database of key research reports and central “library” of reports.
2. Database listing key experts and practitioners in each topic area.
3. Synthesis report on key findings for broad range of impacts, plus identification of 4-6 top Bay Area impacts. Report will be written by science community.
4. Memo detailing links between climate/energy impacts and economic development.
5. Memo outlining key impact issues for the Sustainable Communities Strategy.
6. Discussions, based on the reports, with key “champion” leaders.

Task 2

Create a network of stakeholder advisory groups and work with them to identify potential Bay Area solutions/approaches to reduce risks and increase resilience in each topic area.

Questions:

1. What are the potential solutions for each topic area?
2. How can these solutions be integrated with non-climate local/regional actions and policy objectives?
3. How can these solutions provide multiple benefits, particularly to the economy?
4. Which solutions will build Bay Area resilience and reduce GHGs?
5. What are other metro regions doing or planning to increase resilience?
6. What are the cost ranges for selected strategies?
7. How could Bay Area strategies be implemented in a phased approach (like NYC’s flexible adaptation pathways)?
8. What Bay Area groups are working on solutions in each topic area? What is the status of their work? Lessons learned? Key barriers? Key research needs?

Deliverables:

1. Table of potential strategies for each topic area:

- Economy
- Public Health
- Ecosystems
- Energy
- Water
- Flooding
- Transportation
- Agriculture/Forestry
- Wildfires
- Emergency Preparedness
- Impacts from global systems

Table shows:

- Who would lead/support? State/regional/local
- Current Bay Area activities
- 2020 impact (H-M-L)
- Economic benefits
- Earthquake prep benefit
- Reduces GHGs
- Other benefits/links
- Key issues
- Costs? H-M-L
- Timeframe? S-M-L

Table will be produced by the JPC based on input and approval of key stakeholders for each topic area.

2. Table of Bay Area organizations working in each topic area and description of their efforts. This will include a summary of needs for each group of stakeholders for their full participation in climate/energy resilience work.
3. Memo detailing the links between climate/energy strategies and economic development. Memo will be produced by JPC and key stakeholders.
4. Memo outlining a first phase of strategies that could be planned and implemented in the Bay Area over the next 5-10 years. Memo will be produced by JPC and key stakeholders.
5. Memo outlining how regional agencies and the state can help local governments and special districts in their work to address key issues. Memo will be produced by JPC and key stakeholders.
6. Memo outlining what strategies must be addressed regionally. Memo will be produced by JPC and key stakeholders.
7. Discussions, based on the tables/memos, with key “champion” leaders.

Task 3

Research and present options for decision-making, implementation and funding for a set of selected targeted regional solutions/approaches.

Questions:

1. What are the key lessons learned on leadership, collaborative structure/process and resources from regional climate adaptation and resilience planning already underway in New York City, Chicago, King County (WA), London and other metro areas.
2. What are the options for Bay Area decision-making and implementation for each regional topic, and for cross-topic planning, e.g., general plans, RTP, CAP, SCS, Bay Plan, IRWMP, energy plans, disaster and recovery plans, marine protection area planning, joint powers authorities, etc.
 - Who makes the decisions on regional topics?
 - Who implements?
 - Who is in charge?
 - Who monitors this over time?
 - How do we make this a true public/private effort?
 - Lessons learned from BCDC and BAAQMD recent efforts
3. What are our options for funding sources—public, private, foundations, etc.—for both planning and implementation for all strategies?

Deliverables:

1. Report on:
 - Lessons learned from other regions (prioritized)
 - Bay Area decision-making processes for each topic and cross-topic including gaps and key issues
 - Potential funding sources

Report will be researched and produced by a consortium of Bay Area academic, financial and topic-area experts.

2. Discussions, based on the memos, with key “champion” leaders.

Task 4

Discuss the overall project findings—in conjunction with the Project #2 findings on economic development—with a broad group of Bay Area leaders, and create an action plan for the region.

Deliverables:

1. Discussion forums, led by the “champion” leaders, for leaders to engage with scientists/experts, key stakeholders and their peers.
2. An executive summary report, similar in format to *San Diego’s Changing Climate* or California’s *Our Changing Climate*, will be prepared.
3. Agreement on the need to move forward with climate/energy resilience planning, an overall approach, and a basic action plan for each of the targeted regional topics/strategies. The action plans will:
 - Identify leadership and key stakeholders
 - Summarize current strategies and top barriers
 - Identify both near-term actions and more complex issues requiring higher-level institutional discussions.