

DOE State Energy Advisory Board

August 12, 2008

Lakewood, Colorado

Acceleration of State Energy Transformation

Possible Topics for Discussion

- **Energy Markets and Infrastructure Planning & Assessment**
- **Energy – “Environment” (including air, water, food vs. fuel, sustainability issues) Integration**
- **Policy and Program Design**
- **Economic Development, Innovation & Workforce Scale-up**
- **Public Awareness and Support**
- **Transition Planning**
- **Other Topics?**

Questions and Comments For Each Topic

- Discussion could focus on three questions:
 - What are the key technology, analytic, policy, and market challenges you face?
 - What roles can NREL and other labs, in cooperation with DOE, play in helping you address these challenges?
 - What specific types of expert assistance, tools, analysis, reports, and other resources would you find most useful in addressing these challenges?

Energy Markets and Infrastructure Planning & Assessment

- Examples of existing resources and initiatives
 - Regional assessment and integration (e.g. WGA – like efforts)
 - Resource data, GIS and market sector analysis tools
 - TAP lab expert assistance and new toolkit (www.eere.energy.gov/wip/tap.cfm)
 - Wind Powering America, Solar Cities, Clean Cities, etc.
 - EPA State Clean Air Partnership
- Opportunities for enhanced cooperation:
 - Cooperation on strategic planning, goal setting, options prioritization across the RE and EE portfolio
 - Shared national and state goals and roadmaps?
 - State and regional RE and EE supply curves and improved data on technology performance and cost
 - Sector strategies, economics, implementation approaches
 - Expanded regional integration

Energy-Environment Integration

- Examples of existing resources/initiatives
 - DOE energy-air quality initiative (pilot projects, fact sheets, analysis tools) and related EPA activities
 - DOE and lab life cycle and integrated assessments and tools
- Opportunities for Enhanced Cooperation:
 - GHG displaced emissions quantification methods and analysis of State Climate Policies and State-Federal Policy Interactions
 - Integrated assessment techniques & tools tailored for state use
 - Carbon neutral/sustainable communities initiative
 - Life cycle analysis cooperation and information sharing (materials, energy, emissions, land use, economic interactions)

Policy and Program Design

- Example of Existing Resources/Initiatives
 - State Clean Energy Policy Analysis – Quantifying RE and EE Policy Impacts and Identifying Best Practices (http://www.nrel.gov/applying_technologies/scepa.htm)
 - Related work on State RE and EE Scorecard – Performance and Policy Rankings
 - Green Power and RECs Initiative
 - National Action Plan on Energy Efficiency
 - TAP, Wind Powering America, Solar Cities, Clean Cities, Building Codes, etc.
- Opportunities for Enhanced Cooperation
 - More In-depth Policy Impacts and Best Practices Analysis
 - State Policy Innovation Support
 - Financing Mechanisms and Harmonization
 - Training for State and Local Policy-Makers
 - Targeted Outreach to PUCs and State Legislators
 - Community programs

Economic Development, Innovation and Workforce Scale-Up

- Examples of Existing Resources/Initiatives
 - NREL joint research with CEC and NYSERDA
 - Research and economic development collaboration with CO
 - New NREL training programs with MIT
 - Economic impact analysis tools and reports
- Opportunities
 - Economic development and research partnerships with other states
 - Local & State economic impact analysis support
 - Blue- & Green-Collar job creation and training opportunities
 - Partnership to attracting new domestic or international manufacturing businesses in states and regions
 - Community college & trade school instructor education and curricula development
 - Expanded training programs with other universities

Public Awareness and Support

- Examples of Existing Resources/Initiatives
 - Energy Star Radio PSAs
 - DOE and EPA program specific outreach activities
- Opportunities
 - Joint public education campaigns
 - Outreach materials that states can adapt (brochures, PSAs, directories)
 - “Consumer Reports” technology comparisons
 - Training for community and state and local officials

Transition Planning

- Launching an effort with stakeholders to develop recommendations for an enhanced federal and state and local EE and RE partnership
 - Initiating discussions with state and local associations, officials, and others
 - Will prepare a report presenting a shared vision for EE and RE market transformation and recommended federal and state and local partnership actions to achieve this vision (Nov, 08)
- We would be pleased to partner with STEAB and most interested in your feedback on:
 - *STEAB participation*
 - *Process for engaging states*
 - *Vision and priority actions*