DOE OE Permitting, Siting
Analysis Division:
Samples of State Technical
Assistance Work as of June
2011

State TA: Midwest Gov Assn/NCSL/National Council on Elec Policy/NGA/NASEO

ADVANCING THE NEW ENERGY ECONOMY IN THE MIDWEST: SUSTAINED COORDINATION AND IMPLEMENTATION MEETING

June 7, 2011

RIFFE CENTER, 31st Floor | 77 South High Street | Columbus, OH

Sponsored by

Association of State Energy Research & Technology Transfer Institutions
Clean Economy Network
Corporation for a Skilled Workforce
Great Plains Institute
Midwestern Governors Association
National Association of State Energy Officials

Understanding Air Quality Regulation: Fundamentals for State Decision-Makers

Wednesday January 19, 2011, 2 p.m. Eastern

Please mark your calendars to join the National Council on Electricity Policy for a one-hour webcast aimed at introducing State policy makers from State Legislatures, Governors' offices, Public Utility Commissions, Energy Offices, and others to the basics of clean air regulation in the States. We'll abe joined by the US Environmental Protection Agency to explain a number of forthcoming rules that will affect policy making where you live.

Dial-in number: 1 (800) 261-3225

Link to webcast: https://www.livemeeting.com/cc/readypresent/join?id=9H3WWJ&role=attend&pw=NARUC1889

Speakers:

Nancy Seidman, Deputy Assistant Commissioner for Climate Strategies, Massachusetts Department of Environmental Protection

Joe Bryson, Senior Policy Analyst, Climate Protection Partnership Division, US Environmental Protection Agency

To learn more about the National Council, please visit www.ncouncil.org





May 2010 - Webinar



The National Council on Electricity Policy presents

Transmission and its Alternatives: Planning in the Eastern Interconnection

Speakers:

Miles Keogh, NARUC

Dave Whiteley, Whiteley BPS Planning Ventures LLC Chairman Doug Nazarian, Maryland PSC



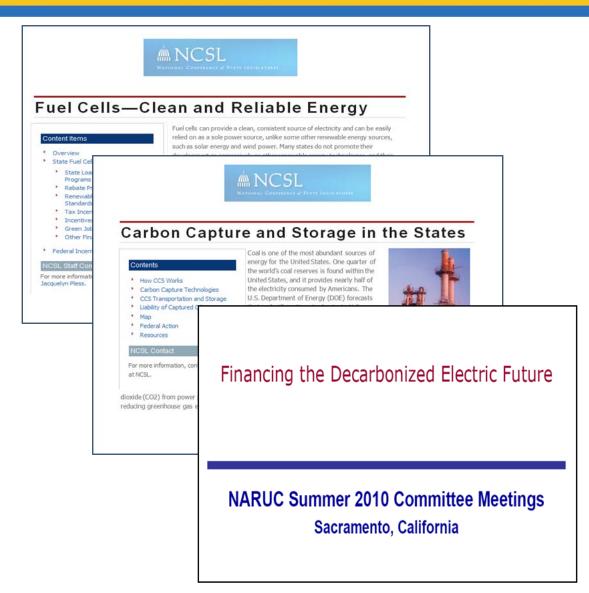
State TA: Natl Conf of State Legislatures/ Natl Council on Elec Policy/Natl Gov Assn/Natl Assn of State Energy **Offices**



Workshop

Carbon Capture & Storage for Coal without Federal Climate Legislation





State TA: NCSL/NGA/NASEO/ **National Council on Electricity Policy**



Experts Roundtable on State Strategies for Advancing **Electricity Transmission** January 25th, 2011

444 North Capitol Street Washington, DC 20001

Welcome, Introductions and Overview of Goals for Meeting Sue Gander, NGA Center for Best Practices 9:15 am The Transmission Grid Beyond 2011 Participants will receive a brief overview of the current landscape of transmission policy and development, including proposed revisions to FERC Order 890 and the status of ARRA-funded interconnection-wide planning efforts. This will be followed by a discussion of the implications of recent state, federal, and industry transmission actions for states

10:00 am



Governors' Energy Advisors **Policy Institute**

Renaissance Arlington Capital View 2800 South Potomac Avenue, Arlington, VA 22202, Phone: 703.413.1400

April 5-6, 2011

AGENDA

This Policy Institute will provide participants the opportunity to meet with national experts and state peers to learn about a diverse set of energy policy best practices. The meeting is a key opportunity for governors' staff to network in a small group setting and hear about concrete energy strategies that can reduce costs, promote economic development and address environmental goals.

RGY TECHNOLOGIES 101

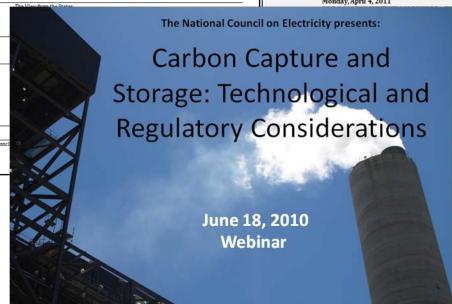
ho will discuss the status of key energy efficiency, renewable

er, carbon capture and storage,

federal energy experts. After

Department of Energy will be e Office of Electricity Delivery and etary for Fossil Energy

Monday, April 4, 2011









For Immediate Release Contact: Bill Becker, NACAA, (202) 624-7864 David Terry, NASEO, (703) 395-1076 Rob Thormeyer, NARUC, (202) 898-9382

Coalition of State Air, Electricity, and Energy Officials Meet to Discuss Common Regulatory Issues

(Washington, D.C.) - On Thursday, December 2, 2010, a joint meeting attended by representatives from NASEO, the National Association of Clean Air Agencies (NACAA), and the National Association of Regulatory Utility Commissioners (NARUC) was held in Washington, D.C. The meeting served as a forum for participants to get acquainted and learn more about their peer agencies. Presenters focused on the critical issues facing environmental regulators, utility regulators, and the energy offices. Participants recognized the need to more closely study the interrelated nature of their work, share best practices, and conduct ongoing dialogues on clean air and energy related issues as the federal government moves forward with new environmental regulations.

A second meeting of the coalition is scheduled for June 2011: topic: U.S. EPA regulatory issues.

Regulatory Assistance Project Sample Products: Utility Planning

RAP

planning process

Clean First:

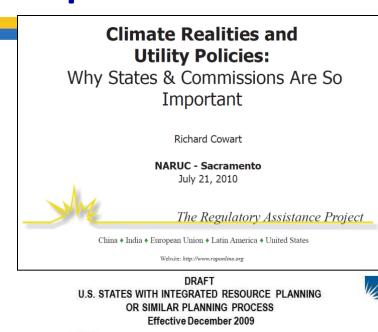
Aligning Power Sector Regulation With Environmental and Climate Goals

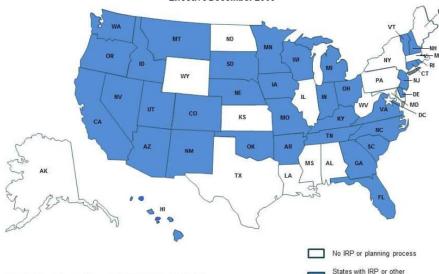
In the US:

September 2010

ATORY ASSISTANCE PROJECT

Electricity Regulation A Guide



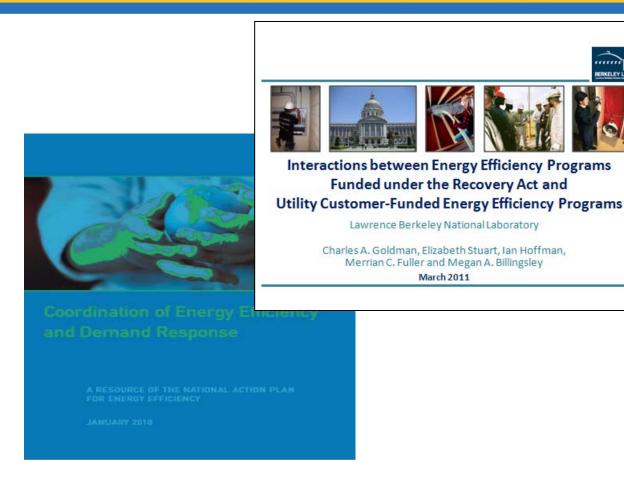


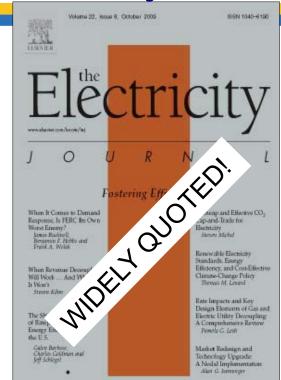
SOURCE: Regulatory Assistance Project 2009 Policy Grid Update

Lawrence Berkeley Nat'l Lab (LBNL) Sample Products: Smart Grid & Demand Response



LBNL Sample Products: Ratepayer-Financed Energy Efficiency





The Shifting Landscape of Ratepayer-Funded Energy Efficiency in the U.S.

An unprecedented expansion of ratepayer-funded energy efficiency is underway. Can it be done, and what are the implications for the country's broader energy goals and energy policies?

Galen Barbose, Charles Goldman and Jeff Schlegel

LBNL Sample Products: EE Business Models for Use by PUCs

Financial Impacts of Achieving
Aggressive EE Program Savings Goals
in Massachusetts:
Building Stakeholder Support

Peter Cappers, Andrew Satchwell, Charles Goldman Lawrence Berkeley National Laboratory

Jeff Schlegel

Independent Consultant

Report Summary

August 2010

Financial Implications of using Energy
Efficiency to contribute towards meeting
a Federal RES: Case Study of Kansas

Peter Cappers

Charles Goldman

Lawrence Berkeley National Laboratory

ACEEE 5th National Conference on Energy Efficiency as a Resource

Chicago, IL September 29, 2009

This work was supported by the Office of Electricity Delivery and Energy Reliability of the U.S. Department of Energy under Contract No. DE-AC02-05CH11231.

Energy Analysis Department - Electricity Markets and Policy Group

THE LAST

Analysis of the Energy Efficiency Standard (EES) and Decoupling on Arizona Public Service and Tucson Electric Power

> Prepared for the Arizona Corporation Commission

Peter Cappers, Chuck Goldman, Andrew Satchwell Lawrence Berkeley National Laboratory

> ACC Open Meeting June 10, 2010

Energy Analysis Department - Electricity Markets and Policy Group

Decoupling Workshop: Arizona Corporation Commission

Presentation by Wayne Shirley and Jim Lazar April 15-16, 2010

The Regulatory Assistance Project

China * India * European Union * Latin America * United States

Website: http://www.ragonlina.org



LBNL Sample Products: EE Evaluation, Measurement & Verification (EM&V)

Development of EM&V Protocols and a Standardized Savings System for Tracking Energy Efficiency Resources: A Pacific Northwest case study

> Tom Eckman Northwest Power and Conservation Council

Illinois Commerce Commission Workshop on Energy **Efficiency and Demand Response** October 16, 2008



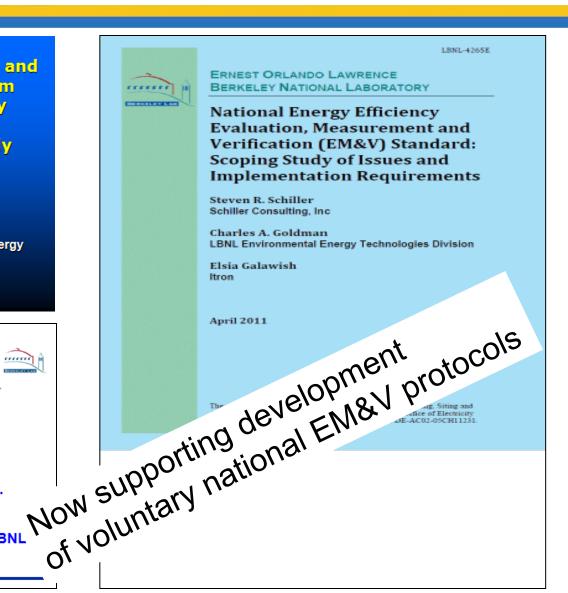
National Energy Efficiency EM&V Standard

Presentation for SEE Action EM&V Committee

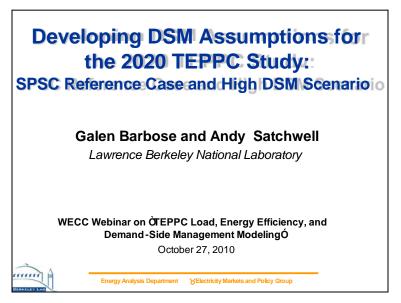
Steve Schiller, Schiller Consulting, Inc.

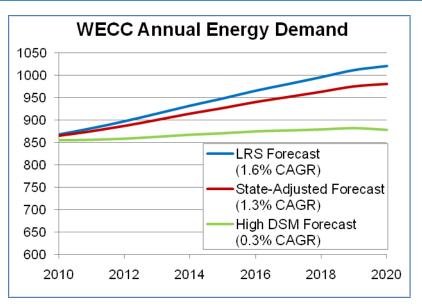
Charles Goldman Lawrence Berkeley National Laboratory (LBNL

2 December, 2010



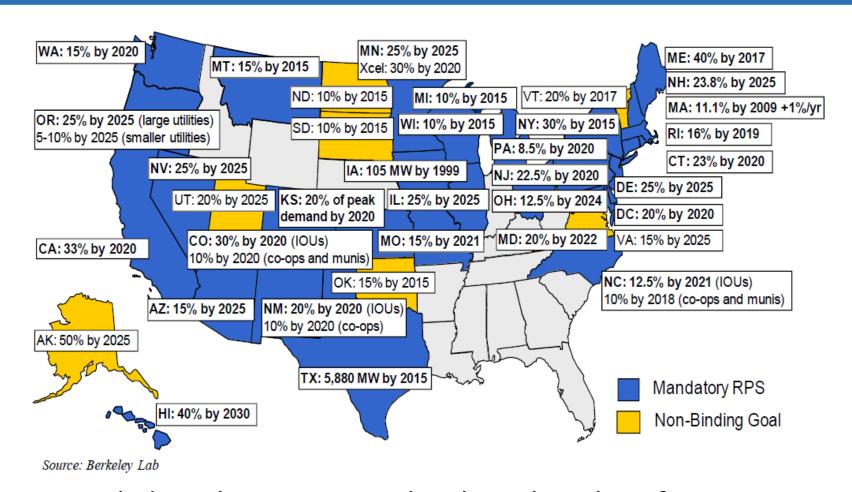
LBNL: Incorporating DSM in Interconnection-Wide Transmission Planning





- LBNL assisted WGA and WECC with modeling energy efficiency and demand response in western transmission planning at direction of PUC commissioners
- Developed reference case and High DSM scenarios
- Found errors in energy efficiency savings embedded in load forecasts – West needs ~20 less large pwr plants in 2020

LBNL: Tracking Design and Experience with State RPS Policies



 Provided April 2011 targeted technical analysis for DOE PI on Federal—State issues for POTUS CES analyses

LBNL: Analysis of Short-Term Variability of Solar Power

Implications of Wide-Area Geographic Diversity for Short-Term Variability of Solar Power

Andrew Mills and Ryan Wiser

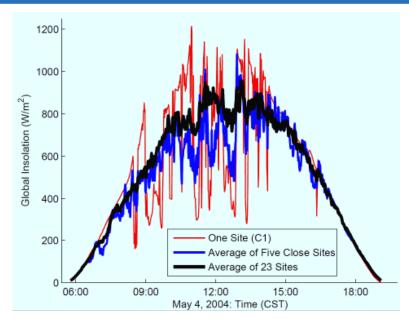
Lawrence Berkeley National Laboratory

September 2010

This analysis was funded by the U.S. Department of Energy, Office of Electricity Delivery and Energy Reliability and Office of Energy Efficiency and Renewable Energy

Energy Analysis Department





- Building of large PV plants is causing integration concerns worse than for wind due to fast ramp rates from clouds -- how to address??
- Assessed short-term variability of PV due to clouds for individual large vs using dispersed aggregated central station sites
- Estimated reduction in costs of short-term balancing reserves with geographic smoothing



LBNL Modeling for WGA'S WREZ Initiative Confirmed Load Serving Entities Desires to Buy Nearby RE & Use Less Long Transmission Than Many Assumed

(Allocated) (Unallocated) Wind Wind Solar Solar **Biomass Biomass** Hydro Hydro Geothermal Geothermal **Hub Size Guide New Transmission** (TWh/yr) Capacity (GW) → 0 - 0.4 \rightarrow 0.5 - 0.8 **0.9 - 1.5**

Source: Mills, A., A. Phadke, and R. Wiser. 2011. "Exploration of resource and transmission expansion decisions in the Western Renewable Energy Zone initiative." *Energy Policy* 39 (3) (March): 1732-1745.