

2008 Summer Seminar



At the 2008 Summer Seminar, EPRI President and CEO Steve Specker challenged nearly 200 leaders of the electricity sector to shift their thinking from surviving a carbon-constrained world to creating a secure, low-carbon future. As a framework for action, he introduced four infrastructures linked into what he called "ElectriNet:"

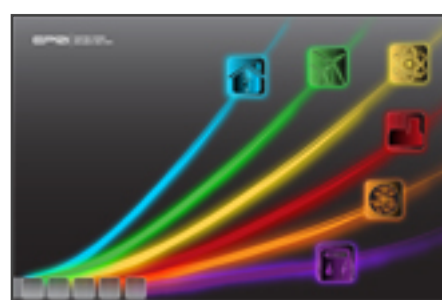
- A low carbon generation system, to be decarbonized over next 30 years;
- A smart grid to enable efficient use of electricity, intermittent sources, and demand resources, which will be installed over the next 10 years;
- Local energy networks, that are grid-connected, to optimize energy use in commercial buildings, homes, and other local networks such as smart street lights; and
- An electric transportation system to include cars and rail systems, with a seamless grid interface.

Seminar speakers and participants representing utilities, regulators, suppliers, and researchers discussed the problems, progress and prospects of creating a low carbon future. They reviewed the rapid growth of wind generation, successes in energy efficiency, and the development of local energy networks in buildings. They agreed that energy efficiency must be exploited in all parts of the system and explored using CO2 emissions as a measure for the efficient use of energy.

Participants considered the unprecedented scope and scale of the challenge facing one of the most capital-intensive industries in the world, including the challenges of raising capital and building massive new infrastructure while reliably operating existing facilities. Discussions touched on the rapid changes coming to metering and customer, as well as automobile, interactions with the smart grid.

In closing the seminar, Specker reviewed six climate technology demonstration projects that are critical to developing the full portfolio of low-carbon technologies. EPRI is launching these projects in 2008 in concert with members, technology providers, and governments.

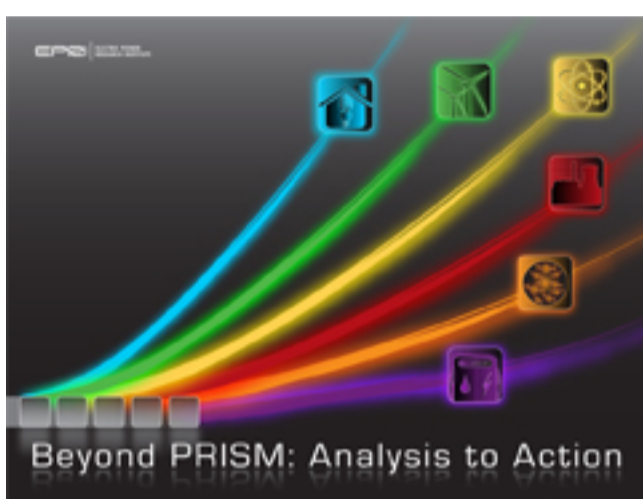
Presentations



Summer Seminar Presentations



In his keynote address, EPRI CEO Steve Specker encouraged the participants to move beyond surviving a carbon-constrained world to creating a secure, low-carbon future by taking advantage of opportunities and innovation with electricity.



DAY ONE

Monday, August 4, 2008

Opening Remarks

Ellen Lapson, Managing Director, Fitch Ratings; Chair, EPRI Advisory Council

Welcome

Jack Keenan, Chief Operating Officer, Pacific Gas & Electric Company

[Keynote: Creating a Low Carbon Future...A Framework for Action](#)

Steven Specker, President and Chief Executive Officer, Electric Power Research Institute

[Session 1: Progress Along the Path to the Full Portfolio](#)

Moderator: Jeanne Fox, President, New Jersey Board of Public Utilities

[Energy Efficiency Successes, Opportunities, and Challenges](#)

Marsha Smith, President, National Association of Regulatory Utility Commissioners; Commissioner, Idaho Public Utilities Commission

[Renewable Energy Build Out: Progress to Date](#)

Steven Chalk, Deputy Assistant Secretary, U. S. Department of Energy

[Smart Grid Developments: Progress to Date](#)

Steven Hauser, President, GridWise Alliance; Vice President, GridPoint

[Nuclear Energy Progress and Opportunities](#)

Joe Turnage, Senior Vice President – Strategy, UniStar Nuclear Energy

[Coal, Natural Gas, and CO2: Global Markets and Development](#)

David Victor, Director, Program on Energy & Sustainable Development, Stanford University

[Session 2: A Matter of Scale](#)

Moderator: James Kerr II, Commissioner, North Carolina Utilities Commission

[The Scale and Scope of the Electricity System: The Need for Baseload Generation](#)

David Ratcliffe, Chairman, President and Chief Executive Officer Southern Company

[Energy Efficiency: Expanding the Scale of Opportunities](#)

Arshad Mansoor, Vice President, Power Delivery and Utilization, Electric Power Research Institute

[Large-Scale Renewable Energy: The Top Challenges](#)

Richard Kelly, Chairman, President and Chief Executive Officer, Xcel Energy

[Natural Gas Supply and Demand: A Widening Gap](#)

Jennifer Snyder, Principal, North American Gas Research, Wood Mackenzie

[Empowering Customers: EDF Gears Up Nationwide Advanced Meter Deployment](#)

Richard Schomberg, Vice President, Research North America, Electricité de France

DAY TWO

Tuesday, August 5, 2008

Session 3: From Concept to Reality: The Next Five Years Moderator: Richard Silverman, General Manager, Salt River Project; Vice Chairman, Electric Power Research Institute

[The Electrification of the Automobile](#)

Tony Posawatz, Vehicle Line Director, Chevrolet Volt and E-Flex System, General Motors

[Expanding the Smart Grid and Putting it to Work](#)

Scott Lang, President & Chief Executive Officer, Silver Spring Networks

[Innovations in Energy Efficient Buildings](#)

Paul Ehrlich, President and Founder, Building Intelligence Group

Renewable Energy: The Next Five Years
David Rodgers, Deputy Assistant Secretary, Energy Efficiency, U.S. Department of Energy

[Learning to Capture CO2 through Global Experience](#)

Jean-Michel Aubertin, Senior Vice President, Alstom

[Crossing Boundaries with Electricity and CO2 Transmission](#)

Joseph Kelliher, Chairman, Federal Energy Regulatory Commission

[Financing the Full Portfolio](#)

Gary Krellenstein, Managing Director, JPMorgan

Closing Remarks

[From Analysis to Action: Demonstrating the Technologies](#)

Steve Specker, President and Chief Executive Officer, Electric Power Research Institute