



3rd Annual Power Storage Conference

Agenda (subject to change)

DAY ONE: Wednesday, February 23, 2011

7:30 a.m. *Conference Registration and Continental Breakfast* — Hosted By: **Dresser-Rand**

8:30 *Chairman's Welcome and Opening Remarks*

The Next Morning: Sustaining State and Federal Policy Momentum Within the New Political Regime

Jason Makansi, President, Pearl Street Inc; Executive Director, Coalition to Advance Renewable Energy Through Bulk Storage (CAREBS)

KEYNOTE

9:00 **The Need for Power Storage Development to Further Use of Renewables**

- The need for regulator structure
- How should energy storage be incorporated into the grid?
- What would be the impact of the pending Storage Technology of Renewable and Green Energy Act?
- Who needs to be leading the way?

Patricia Hoffman, Assistant Secretary, Office of Electricity Delivery and Energy Reliability, U.S. Department of Energy

9:45 **Storage for Bulk Electricity System Reliability**

- Incorporating forecasting techniques into real-time operating practices as well as day-to-day operational planning
- Addressing the need of consistent and accurate assessment of variable generation availability to serve peak demand in longer-term system planning
- Integration of high-quality data into existing practices and software
- Pursuit of research and development in the electric industry

John Moura, Technical Analyst, Reliability Assessment and Performance Analysis, NERC

10:30 *Networking & Refreshment Break*

PANEL

11:00 **Where Does Power Storage Lie Within the Regulatory Realm?**

- Who is going to be required to pay for storage services?
- Are utilities going to be able to roll into rate base?
- Will wind generators be required to nominate generation?
- Determine the current waste in spinning reserves that are required to support renewables
- Establishing guidelines before independent storage providers can access commercial value

Moderator: Brett Perlman, Vice President, Vector Advisors

Chantal Hendrzak, General Manager, Applied Solutions, PJM Interconnection LLC

Todd P. Hillman, Executive Director, Strategic Business Development, Midwest ISO

Warren Lasher, Manager, Long-Term Planning and Policy, ERCOT

Mark Rothleder, Director, Market Analysis and Development, California ISO

12:30pm *Luncheon*

PANEL

2:00 **Energy Storage and Electric Vehicles Opportunities and Challenges**

- Advent of electric vehicles and development of charging stations
- Electric vehicles in the business model - Opportunities for utilities, developers, investors, public and private parking lot owners, and facility owners
- Impact on the grid – What infrastructure upgrades will be needed and how will they be priced?
- Where does power storage fit as electric vehicle infrastructure needs grow?

Moderator: Michael A. Stosser, Of Counsel, Day Pitney LLP

Britta K. Gross, Director, Global Energy Systems and Infrastructure Commercialization,

GM, R&D and Strategic Planning

Paul D. Heitmann, Utility Stakeholder Services, Ecotality, Inc.

3:00 *Networking & Refreshment Break*

PANEL

3:30 **Venture Capital and Private Equity Funding for Energy Storage**

- Corollaries in financing power storage to other project finance markets
- Defining markets to evaluate and contract for project revenues
- Benefits of investing in utility grade bulk energy storage, such as CAES, vs. Pumped hydro storage vs. fly wheel vs. battery
- The impact of extending tax credits to power storage
- Financing energy storage projects - How do we get there from here?

Moderator: Charles Zabriskie, Partner, Acquest Advisors

Chris Moscardelli, Director, Project and Energy Finance, Societe Generale

Dave Marchese, Director, Haddington Ventures

Michael Adams, Vice President, Constellation Energy Group

Frank R. Ramirez, Chief Executive Officer, ICE Energy, Inc.

5:00-6:00 *Cocktail Networking Reception*

DAY TWO: Thursday, February 24, 2011

8:15 am *Continental Breakfast*

8:45 *Chair's Review of Day One*

Jason Makansi, President, Pearl Street Inc; Executive Director, Coalition to Advance Renewable Energy Through Bulk Storage (CAREBS)

9:00 What Makes SMARTCAES So Attractive?

- The McIntosh experience (first CAES plant in the US)
- D-R SMARTCAES Scope (Power Island)
- Benefits of its specific design of CAES applications
- Long-term service supply
- How is this financially, warrantable, and shovel ready?

Jim Heid, Vice President, Dresser-Rand

CASE STUDY

9:30 Value of CAES to Load Serving Entities (LSEs)

- How CAES fits into a portfolio
- What role can CAES play in meeting load obligations
- What are potential cost savings to the portfolio with, and without, a CAES asset
- How is the portfolio risk profile impacted

Jack Farley, President, Cornerstone Energy Storage LLC

10:00 First Wind's Battery Energy Storage System (BESS) Utilization in Hawaii

- Reduce power variability by more than 95%
- Mitigate the issues associated with wind turbine trips and overloads, delivering consistent power to the grid
- Effectively store and deliver surplus power

David Hastings, Vice President, Wind Generation Technologies, First Wind

10:30 *Networking & Refreshment Break*

11:00 Energy Storage - Meeting the Need for Emission-Free Capacity

Renewables bring emissions-free energy, but are limited in controlled capacity. As emissions regulations and renewable penetration standards become commonplace, emissions-free capacity will become the logical complement at the system level to satisfy requirements.

- Evaluating the complete system value of a solution with an emissions-free capacity component
- Examining the role energy storage plays in delivering emissions-free capacity
- Assessing the benefits of emissions-free capacity in reducing operational costs and meeting future energy needs

Chris Shelton, President, AES Energy Storage

CASE STUDY

11:30 Developing Flywheel Base Storage

- Attaining DOE loan guarantee
- What type of investment is needed to become a developer, operator, and supplier of flywheel storage?
- How to expand into other markets
- Benefits of flywheel power storage

Bill Capp, President and Chief Executive Officer, Beacon Power

12:30pm *Close of Conference*