



The Technology & Investment Showcase

Thursday, July 15th, 2010

8:00 – 8:15 **Welcome & Introduction by the Chair**
James J. Greenberger, *Executive Director*,
NATIONAL ALLIANCE FOR ADVANCED TECHNOLOGY BATTERIES

8:15 – 9:15 **Grid Storage: Investment, Commercialization & Markets:**
On this panel, leading ventures investors and market analysts will assess:

- *Impacts of stimulus and ARPA-E funding*
- *Projections of the total dollar size and key segments of a global grid-scale storage market*
- *R&D funding internationally*
- *The research horizon of stationary storage*
- *Fitting technologies to applications and market niches*
- *Intelligent power controllers*
- *Real-world economics of storage: who is closest?*

Moderator: **John F. Mizroch**, *Of Counsel*,
WILSON SONSINI GOODRICH & ROSATI, LLP

Panelists:

Jeff Chamberlain PhD, *Energy Storage Initiative Leader*,
ARGONNE NATIONAL LABORATORY

Sam Jaffe, *Research Manager*, IDC ENERGY INSIGHTS

Don Nissanka, *President/CEO*, EXERGONIX, INC.

David Wells, *Partner*, KLEINER PERKINS CAUFIELD & BYERS

Marianne Wu, *Partner*, MOHR DAVIDOW VENTURES

9:15 – 10:15 **Technology Presentations**
This trio of twenty minute presentations will feature three of our leading technology sponsors who will provide a status report on their latest innovations and implementations.

Presentation #1:

Michael Oster, *CEO*, GRID STORAGE TECHNOLOGIES

Ben Rogers, *President & COO*, GRID STORAGE TECHNOLOGIES

Presentation #2

Chris Winter, CEO, RED FLOW TECHNOLOGIES, LTD.

Presentation #3

Steve Vechy, Director of Marketing for UPS and Utilities, ENERSYS

10:15 – 10:45 *Networking Break*

10:45 – 11:30 **Breaking the Price Barrier: Developments in Low-Cost Bulk Storage**

This session of 20 minute developer presentations will profile breakthrough ideas and early stage technologies with the potential to compete in the same \$/kwhr range as compressed air and pumped hydro (~\$250/kwhr or lower). New flow battery approaches, thermal, underwater storage and other ground-breaking ideas will be surveyed and presented.

Presentation #1

Rob Bearman, Director, Global Energy Alliances, BETTER PLACE

Presentation #2

Bipolar Lead Acid Breaks The Price & Footprint Barriers for Grid Scale Storage
Stephen Clarke, CEO, APPLIED INTELLECTUAL CAPITAL

11:30 – 1:00 *Group Luncheon*

1:00 – 2:00 **Breaking the Price Barrier:**

Developments in Low-Cost Bulk Storage – Part II

This series of 20-minute developer presentations featuring early-stage technologies and break-through ideas continues.

Presentation #3

Kim Johnson, Executive Vice President, Commercial, SYMBIOTICS, LLC

Presentation #4

Bill Grey, CEO, VELKESS, INC.

Presentation #5

**Jim D. Hodge, Ph.D., Chief Technology Officer,
K2 ENERGY SOLUTIONS, INC.**

2:00 – 2:30 *Presentation:*

Ultra-Capacitor Survey

R&D is proceeding fast and furious on ultra-capacitors, thanks in part to the electric vehicles push. For example, ultra-capacitors are now being grafted onto traditional lead-acid batteries to make them viable for fast discharge applications, keeping lead acid in the race with Lithium Ion. This presentation by a leading ultra-capacitor developer will survey the most cutting edge announcements and developments in the field, and also briefly describe what differentiates their in-house technology from others coming onto the market.

Dr. Dileep Agnihotri, CEO, GRAPHENE ENERGY, INC.

2:30 – 3:00 *Presentation:*

Smart Power Management: Technology & Economics

The interface between storage devices and the grid is just now starting to come into view as the overall value proposition - and price challenge - of storage itself becomes more well known. Multiple vendors, some from inverter side, some from smart grid/AMR space, and some battery developers, are working on building intelligence and flexibility into power conditioning components. Such devices allow the storage unit to be controlled by grid operators, and/or monitored by the user, adjust the energy and power to shifting needs, and may even analyze tariff and pricing information from the grid operator to maximize the value of the unit via the various ancillary storage services it can provide. This presentation will provide an overview of who's doing what, and what price points such devices have to meet to be worth adding to a commercial storage device.

Ryan Wartena, President, GROWING ENERGY LABS, INC.

3:00 p.m. *The Showcase Adjourns*