From: Howard, Ted
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Subject: Thought Leaders Panel Discussion: The Economic Viability of Energy Storage

The next CPUC Thought Leaders event, ***The Economic Viability of Energy Storage***, will take place on September 20th, from 1-3 PM, in the CPUC auditorium (505 Van Ness Ave., San Francisco), as well as via webcast. Please plan to join us. There is a brief registration form at our Thought Leaders page: www.cpuc.ca.gov/thoughtleaders. The webcast will be viewable at this link as well.

Energy storage, and in this context electricity storage, is considered by many as a potential "Holy Grail", which ideally could resolve grid integration challenges from aggressive renewable energy development. California in particular, with an objective of serving 33% of electric load with renewable energy by 2020, could benefit significantly from energy storage. Energy storage also reduces demand for costly peak load power and spinning reserves, as well as deferring the need for additions to transmission and distribution infrastructure. Reductions of greenhouse gas (GHG) emissions resulting from energy storage could also facilitate attainment of California's objective for reducing GHG emissions to 1990 levels by 2020.

Our Moderator and Panelists will address the benefits and costs, and related issues, associated with energy storage.

Moderator:

- **Amanda Stevenson**, Director, Market Policy & Regulatory Affairs, West, Xtreme Power, Inc.

Panelists:

- **Joe Desmond**, Sr. Vice President, Government Affairs and Communications, BrightSource Energy, Inc.

- **Byron Washom**, Director of Strategic Energy Initiatives, University of California, San Diego

- **Dr. Robert Schainker**, Senior Technical Executive in the Power Delivery and Utilization Sector, Electric Power Research Institute

- **Dr. Craig R Horne**, President & CEO, EnerVault Corporation

This interactive panel discussion will answer questions such as:

1) what is the optimal cost-benefit methodology for estimating cost effectiveness of electricity storage;

2) what are the tangible and intangible costs and benefits of storage;

3) what are the advantages and disadvantages of distributed versus centralized storage;

4) which storage applications are most likely to have positive net benefits; and

5) which storage technologies are closest to commercial viability.

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