

California Power Market Conference

GHG Policies, DG/CHP Goals, and the Resurgence of Solar

➔ californiapower.platts.com

November 12–13, 2012 • Hilton San Francisco Financial District • San Francisco, CA

Join Power Industry Leaders:

Anders Hyde, **BENTEK Energy**

Samantha Katz,
BGC Environmental Brokerage Services

Udi Helman, **BrightSource Energy**

Mary Nichols,
California Air Resource Board

Beth Vaughan,
California Cogeneration Council

Mark Rothleder, **California ISO**

Nancy Ryan,
California Public Utilities Commission

Nat Skinner,
California Public Utilities Commission

Matthew Barmack, **Calpine Corp.**

Ted Ko, **Clean Coalition**

Greg Wikler, **EnerNOC**

Katherine Ryzhaza, **Evolution Markets**

Mark Fillinger, **First Solar, Inc.**

Randi Abernethy, **LCH.Clearnet**

Paul Cusenza, **Nodal Exchange, LLC**

Todd Strauss, **Pacific Gas & Electric**

Trina Horner, **Pacific Gas & Electric**

Kevin Smith, **SolarReserve**

Andrew Wang, **SolarReserve**

Carl Silsbee, **Southern California Edison**

Gerome Torribio,
Southern California Edison

Frank Wolak, Ph.D.,
Stanford University

Walker Wright, **Sunrun, Inc.**

Catherine Reheis-Boyd,
Western States Petroleum Association

Jerry Bloom, **Winston & Strawn LLP**

Engage in Interactive Discussions on:

- Cap and trade — What are the market design and legal challenges? Is it a go in January 2013?
- Can California meet the governor's goals of a combined 18,500 MW of renewables and CHP?
- How can California balance the grid with renewables coming online?
- Dodd-Frank, the move to clearing, and enabling participants to meet specific hedging needs
- Managing volatility of hydroelectricity as renewables mandates and power generation increases
- What is the impact of cheap natural gas on procurement?
- What is the future of nuclear power in California (SONGS and Diablo Canyon)?
- How can storage assist in demand response?



PLUS — 3 Solar Case Studies:

- Crescent Dunes
- Agua Caliente
- Ivanpah

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SPARKSPREAD

DAY 1: Monday, November 12, 2012

7:30 Conference Registration and Networking Breakfast

8:30 Chair's Welcome and Opening Remarks
Jerry Bloom, Partner, **Winston & Strawn LLP**

Cap and Trade, the Governor's DG Goal, and CHP

8:45 **California Cap on Greenhouse Gas Emissions and Market-Based Compliance Mechanisms**



- Legal challenges and market design issues
- Can California achieve a reduction in emissions to 1990 levels by 2020?
- Interactions between complementary programs
 - LCFS
 - cap and trade
- Who does and does not qualify as a "covered entity"?
- What are the issues and dynamics around allocations?
- Is cap and trade a go in January 2013?

Frank Wolak, Ph.D., Department of Economics, **Stanford University**
Mary D. Nichols, Chairman, **California Air Resource Board**
Catherine Reheis-Boyd, President, **Western States Petroleum Association**
Samantha Katz, Managing Director, **BGC Environmental Brokerage Services**

10:00 **Networking & Refreshment Break**



Hosted by:



10:30 **Distributed Generation and Combined Heat and Power**



- Can we meet the governor's goals of 12,000 MW of renewables and 6,500 MW of CHP?
- The politics and economics of net energy metering
- Is there a price signal from the nodal market for distributed generation?
- What are the advantages of distributed generation over utility scale generation?

Jerry Bloom, Partner, **Winston & Strawn LLP**
Beth Vaughan, Executive Director, **California Cogeneration Council**
Ted Ko, Associate Executive Director, **Clean Coalition**
Walker Wright, Director of Government Affairs, **Sunrun, Inc.**
Gerome Torribio, Manager, Combined Heat and Power Contracts, **Southern California Edison**

12:00 **Networking Luncheon**



Hosted by:



Balancing the Grid through Renewables and Power Contracts

1:30 **Renewable Integration/Resource Adequacy**



PANEL DISCUSSION

- How can we balance the grid with renewables coming online?
- Transmission interconnection issues for renewable projects
- What is the long term plan for integrating renewables?
- SB 32 ramifications
- Short/long term impact of renewable projects on congestion patterns
- Achieving full deliverability status

Katherine Ryzhaya, Director, Structured Transactions, **Evolution Markets**

Todd Strauss, Senior Director, Energy Policy, **Pacific Gas & Electric**

Mark Rothleder, Principal Market Developer, **CAISO**

Nat Skinner, Senior Analyst, **California Public Utilities Commission**

Carl Silsbee, Manager of Resource Policy and Economics, **Southern California Edison**

3:00 **Networking & Refreshment Break**



Hosted by:



3:30 **Power Contracts for Energy Plus Congestion**

- Contracts settle against day ahead energy plus congestion prices
- No underfunding or capacity constraint in cleared environment
- Enabling participants to meet specific hedging needs
- Dodd-Frank and the move to clearing

Paul Cusenza, Chief Executive Officer, **Nodal Exchange, LLC**

Randi Abernethy, Director, Nodal Exchange, **LCH.Clearnet**

Cheap Natural Gas' Impact in the Power Portfolio Mix

4:15 **Analyzing the Relationship between Natural Gas and Hydroelectric Power**

- Managing volatility of hydroelectricity as renewables mandates and power generation increases
- Dispatchability and low prices — How does natural gas ease integration challenges?
- Abundant gas supply in the West — Can we count on this long term?
- How low gas prices combined with system improvements eased the impact of San Onofre nuclear outages in 2012

Anders Hyde, Energy Analyst, **BENTEK Energy**

5:00 **Wine & Cheese Networking Reception**



DAY 2: Tuesday, November 13, 2012

7:30 *Networking Breakfast*

8:15 *Chair's Review of Day One*
Jerry Bloom, Partner, Winston & Strawn LLP

- 8:30 **The California Portfolio Mix**
- Integrating generation under the 33% renewable portfolio standard with natural gas
 - What is the impact of cheap natural gas on procurement?
 - Competitiveness of renewables in the immediate and long-term
 - Impact of renewables on retail rate design issues
 - What can replace voluntarily (aging) and involuntarily (once through cooling) retired natural gas units?
 - What is the future of nuclear power in California (SONGS and Diablo Canyon)?

Kevin Smith, Chief Executive Officer, SolarReserve
Trina Horner, Vice President, Regulatory Proceedings and Rates, Pacific Gas & Electric
Matthew Barmack, Director, Market and Regulatory Analysis, Calpine Corp.

9:45 **Utility Scale Solar — Design, Capacity, Location, and Forecast**



CASE STUDIES

- Crescent Dunes project
- Agua Caliente project
- Ivanpah project
- Aggregate solar profiles for 2013 and impact on the markets

Mark Fillinger, Director, Development, First Solar, Inc.
Udi Helman, Managing Director, Economic and Pricing Analysis, BrightSource Energy
Andrew Wang, Director, SolarReserve

10:45 **Networking & Refreshment Break**



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Power Storage and the Future of Demand Response

- 11:15 **Demand Response and Efficiency Programs**
- What is the future for demand response solutions?
 - How cost effective will they be?
 - How can storage assist in demand response?

Nancy Ryan, Deputy Executive Director, Policy and External Relations, California Public Utilities Commission
Greg Wikler, Director of Regulatory Affairs, EnerNOC

12:15 *Close of Conference*

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Hear from the Following Leaders:

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- Calpine Corp.
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- SolarReserve
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- Stanford University
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