

NETWORKED SOLAR

The Convergence Of Smart Grid and PV



January 25-26 2011
Jersey City, New Jersey



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Conference Agenda

January 25, 2011

2:00p.m.–2:45p.m.

Opening Remarks

Katherine Hamilton, Former President, GridWise Alliance

2:45p.m.–3:30p.m.

The Smart Grid: 2010–2015

GTM Research will present highlights and key findings from new market research detailing the growth of the smart grid over the next 5 years, including a bottom-up market forecast analysis that covers advanced metering infrastructure (AMI), distribution automation (DA), next-generation utility control systems, and home area networks (HAN). Understanding the smart grid or "Utility 2.0" will be imperative for understanding the evolving way in which pv will plug-in and communicate with both grid operators and homes and business.

David J. Leeds, Senior Manager, Smart Grid Research, GTM Research

3:30p.m.–4:00p.m.

Networking Break

4:00p.m.–5:00p.m.

Building a Roadmap for Solar/Smart Grid Convergence

To date, the enormous growth in both the solar and smart grid industries over the past decade has largely been occurring independent of each other. However, as the electric power grids across the globe increasingly get networked for 2-way communications, due largely to the growth in AMI, new opportunities are popping up to converge distributed generation (specifically photovoltaics) with the grid operator and building control systems. On this panel, hear from leading utility executives and policy makers who will explain how these domains are merging, and further detail the best framework to ensure that the significant strides made in technology, policy and investment will collectively move us to a less-centralized, less carbon-intensive electric power delivery system.

Paul DeCotis, Vice President of Power Markets, Long Island Power Authority

Kevin Lynn, Acting Lead for Systems Integration, Solar Energy Technologies Program, Department of Energy

Gary Rackliffe, VP Smart Grids North America, ABB

Joe DeLuca, VP Development & Product Management, Petra Solar

Moderator: David J. Leeds, Senior Manager, Smart Grid Research, GTM Research

5:00p.m.–7:00p.m.

Welcome Reception

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Conference Agenda

January 26, 2011

9:00a.m.–9:30a.m.

Opening Keynote

Ralph Izzo, Chairman, President, and CEO, Public Service Enterprise Group Inc. (PSEG)

9:30a.m.–10:30a.m.

Utility Solar Projects and Programs

Utilities sit at the intersection of renewable energy and smart grid, and their adoption of new technologies and solutions will define the shape and future of this market. In this session, leading utilities will discuss their current programs that incorporate solar and smart grid and share their experiences and plans for continued investment in this area. The discussion will be moderated by a senior research analyst from GTM Research, who will set the stage with market data on the US utility PV market by state.

Helen Priest, Director of Emerging Markets, PG&E
Alfredo Matos, VP Renewables & Energy Solutions, PSE&G
Stephen Keehn, Project Manager – Green Initiatives, SDG&E
Moderator: Brett Prior, Senior Solar Analyst, GTM Research

10:30a.m.–11:00a.m.

Networking Break

11:00a.m.–11:45a.m.

Technologies Enabling the Integration of Solar Power and the Grid

At the intersection of solar power systems and the grid sit inverters, power management solutions and software, all of which combine to further the market's adoption of a new class of "smart solar" power solutions. In this session, leading technology providers will discuss their current solutions and how they are enabling increased adoption of utility-scale solar power while meshing with utility requirements for a smart grid.

Minesh Shah, Product Line Leader, Renewable Systems, GE Energy
Michael Zuercher-Martinson, Chief Technology Officer, Solectria Renewables
Dr. Leo Casey, Vice President and CTO, Satcon
Dr. Johan Enslin, Chief Technology Officer, Petra Solar
Moderator: MJ Shiao, Solar Analyst, GTM Research

11:45a.m.–12:30p.m.

Smart Policies for the Convergence of Smart Grid and Solar

This panel discussion will bring to light current thinking among regulators, policy makers and leading technology companies regarding the appropriate policy frameworks for solar integration, smart grid, and the measurable value they bring to energy consumers.

Commissioner Jeanne M. Fox, Commissioner of the New Jersey Board of Public Utilities
Michele Tihami, Director, Policy and Regulatory Strategy, Global Energy and Utilities, IBM
Fred Butler, Former Commissioner, NJ BPU, Former President, NARUC
Moderator: Scott Clavenna, CEO, Greentech Media

12:30p.m.–1:30p.m.

Lunch

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both signals from the market and their own preferences (best price, green energy, etc). The panel features a range of experts from leading solar, inverter and grid management companies discussing how combining distributed solar and smart power management can contribute to improved demand management and planning for utilities.

Erik Limpaecher, Co-founder and Chief Technology Officer, Princeton Power Systems
 Dave Edwards, Global Director of Strategy & Public Policy, Residential & Commercial, SunPower Corporation
 Jeff Tolnar , CTO, BPL Global
 Kleber Facchini, Principal Applications Engineer, American Superconductor
 Moderator: Chet Geshnickter, Smart Grid Analyst, GTM Research

2:15p.m.–3:00p.m.

Afternoon Keynote

Insights on Petra Solar's innovative solar plus Smart Grid technology and how it provides key commercial benefits and addresses meaningful challenges for utilities as well as creates green jobs and promotes local economic development.

Dr. Shihab Kuran, CEO, Petra Solar

3:00p.m.–3:30p.m.

Networking Break

3:30p.m.–4:15p.m.

The Critical Role of Energy Storage in the Convergence of PV and Smart Grids

Energy storage is often considered a fundamental lynch pin for the convergence of PV and smart grids, in addition to being a necessary solution for which there aren't a tremendous amount of cost-effective options in the market today. As a result, many industry experts view utility-scale energy storage as a "holy grail" technology that will finally enable a true convergence of smart grids and PV, allowing distributed generation to scale effectively, providing a clean energy source via a stable grid infrastructure. This session will look at the challenges utilities face today as they make deployment decisions concerning energy storage as well as provide insight into the available and future technology solutions that are coming to the market.

Erich Gunther, Chairman and CTO, co-founder, EnerNex
 Arturo Zárate, New Business Development & Marketing, SANYO North America-Solar & Smart Energy Systems
 Dr. Carlos Coe, Founder and CEO, Xtreme Power
 Stephen Keehn, Project Manager – Green Initiatives, SDG&E
 Moderator: Scott Clavenna, CEO, Greentech Media

4:15p.m.–5:00p.m.

Solar and Smart Grid Market Outlook: Technological Trends and Investment Opportunities

Elaine Kwei, Senior Vice President, Cleantech Equity Research, Jefferies & Company
 Jeff Osborne, Managing Director, Stifel, Nicolaus & Company
 Moderator: Michael Kanellos, Editor-in-Chief, Greentech Media



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