



Solar ADEPT Workshop

Hosted by the Advanced Research Projects Agency – Energy (ARPA-E) & EERE

When: February 8, 2011

Where: Hilton Arlington

Agenda

7:30 AM - 8:15 AM	Registration & Continental Breakfast
8:15 AM – 8:45 AM	Welcome Arun Majumdar Director, ARPA-E Ramesh Ramamoorthy, SETP Program Manager, Office of Electricity & Energy Reliability Room: Gallery 2
8:45 AM – 9:05 AM	Balance of System for Utility Scale Photovoltaics Al Goodrich, NREL Room: Gallery 2
9:05 AM – 9:25 AM	Balance of System for Building Photovoltaics Sam Newman, Rocky Mountain Institute Room: Gallery 2
9:25 AM – 9:45 AM	Module Packaging and Interconnection Doug Rose, SunPower Room: Gallery 2
9:45 AM – 10:05 AM	Opportunities and Challenges for Power Electronics in PV Modules Sarah Kurtz, NREL Room: Gallery 2
10:05 AM – 10:15 AM	Workshop Technical Overview and Introduction of Breakout Sessions Dr. Rajeev Ram ARPA-E Room: Gallery 2
10:15 AM – 10:30 AM	Break- Foyer
10:30 AM – 12:15 PM	Concurrent Breakout Sessions System Electrical Architecture & Performance Metrics– Group 1 Room: Gallery 3 System Electrical Architecture & Performance Metrics– Group 2 Room: Renoir System Electrical Architecture & Performance Metrics– Group 3

Room: DaVinci/Matisse

12:15 PM – 1:00 PM	Lunch – Buffet in Foyer
1:00 PM – 1:45 PM	Reports Out from Breakout Sessions Chairs brief whole group (15 min each)/Discussion Room: Gallery 2
1:45 PM – 2:45 PM	Next Generation Power Platform –NCSU, APEI, IR, GeneSiC, CMU (10 min each) Tim McDonald, International Rectifier Ranbir Singh, GeneSiC Alan Mantooh, University of Arkansas Michael McHenry, Carnegie Mellon Subhashish Bhattarchaya, North Carolina State University Room: Gallery 2
2:45 PM – 3:00 PM	Coffee Break- Foyer
3:00 PM – 5:00 PM	Concurrent Breakout Sessions Sub-module Integrated Converters - Group 1 Room: Renoir Inverters for Rooftop PV - Group 2 Room: DaVinci/Matisse Advanced Interfaces for Utility-scale PV - Group 3 Room: Gallery 3
5:00 PM – 5:45 PM	Reports Out from Breakout Sessions Chairs brief whole group (15 min each)/Discussion Room: Gallery 2
5:45 PM – 6:15 PM	Wrap-Up Rajeev Ram Room: Gallery 2
7:00 PM – 10:00 PM	One-on-One Meetings (sign-up individually) Rajeev Ram Room: Arlington Hilton Bar (2nd floor)

ARPA-E SOLAR ADEPT/EERE SEGIS-AC WORKSHOP

The general agenda below will assist you in booking your travel to and from the meeting. Note that all end times are approximate and we recommend allowing ample time for scheduling your return flights to ensure that you can take part in the entire meeting.

Meeting location:
Hilton Arlington
950 N. Stafford St.
Arlington, VA 22203

Please check back frequently for updates, as the agenda is subject to change.

Wednesday, February 9, 2011

7:30AM - 8:00AM	REGISTRATION & BREAKFAST - <i>Gallery Ballroom Foyer</i>
8:00AM - 8:30AM	Welcome Remarks Ramamoorthy Ramesh, Program Manager, Solar Energy Technologies Program (SETP), Energy Efficiency and Renewable Energy Kevin Lynn, DOE, SETP
8:30AM - 8:50AM	Smart-Grid Functionality: Where we are today? Ward Bower, Sandia National Laboratories
8:50AM - 9:10AM	Power Electronics and Balance of Systems Costs Al Goodrich, NREL
9:10AM - 9:30AM	Interconnecting Smart-Grid Inverters: Benefits and Barriers Leon Roose, Hawaii Electric Company
9:30 AM – 9:50 AM	Results from the Inverter Reliability Workshop Stan Atcitty, Sandia National Laboratories
9:50 AM – 10:10 AM	EPRI/SNL Inverter Communications Project Al Hefner, National Institute of Standards and Technology
10:10AM - 10:20AM	Workshop Overview and Introduction of Breakout Sessions Kevin Lynn, SETP
10:20AM - 10:40AM	BREAK
10:40AM - 12:30PM	Breakout Session: Inverter Technology: Smart Grid Functionality & Performance
10:40AM - 12:30PM	Breakout Session: Added Value of Power Electronics to the PV System with regards to Safety, Performance, and Cost
12:30PM - 1:15PM	LUNCH - <i>Served in Gallery Ballroom Foyer</i>
1:15PM - 2:00PM	Reports Out from Breakout Sessions - Chairs brief entire group (15 min. ea.) followed by discussion.
2:00PM – 2:15PM	Breakout Session: Defining Performance Metrics
2:15PM – 3:30PM	Metrics for Smart Grid Functionality
2:15PM – 3:30PM	Metrics for Power Electronics and the PV System
3:30PM - 3:45PM	BREAK
3:45PM - 4:30PM	Report from the Breakout Sessions
4:30PM – 5:00PM	Wrap-Up Kevin Lynn, SETP