ASU LightWorks
ARIZONA STATE UNIVERSITY
Light-Inspired Solutions

LightWorks Lecture Series

Featuring Dr. Mahesh Morjaria

Monday, December 17, 2012

Dr. Mahesh Morjaria

Vice President, Global Grid Integration
Power Plant Technology, First Solar

Dr. Mahesh Morjaria leads the development of First Solar's grid integration capability for utility scale PV plants. He brings more than 25 years of advanced technology, engineering and product development expertise in energy and other fields. He has held leadership roles in solar and wind generation and also grid integration over the past decade. Dr. Morjaria previously worked at GE where he held various leadership positions. He is an author of numerous papers and patents in the area of renewable grid integration, PV plant and wind turbine controls, monitoring, diagnostics, and services technologies. His academic credits include B.Tech from IIT Bombay and Ph.D. from Cornell University in USA.

Join us December 17 for up to 3 opportunities to interact with Dr. Mahesh Morjaria

1 The Development of Utility Scale PV Plants

Monday, December 17 from 10:00 to 11:00 am
Location ASU Tempe Memorial Union, Ventana 214A

This **talk** will cover a number of technical challenges in achieving both scale and reliability of utility scale PV plants required to make solar energy affordable and sustainable. Experience gained from the development and execution of utility scale projects for a very large (over 3 GW) contracted pipeline provides valuable lessons. An important success factor has been a vertically integrated capability across the entire solar value chain, including innovative technologies, EPC, expertise, services, project development and finance. The talk includes a road map to cost-reduction through standardization and scale, critical developments in grid integration systems, and the advancements in these cost-effective systems.

2 Panel Discussion: Development of Utility Scale PV Plants

Monday, December 17 from 11:00 am to 12:00 noon
Location ASU Tempe Memorial Union, Ventana 214A

Join us for a **panel** discussion following Dr. Morjaria's technical talk on the challenges and advancements in reducing costs in PV grid integration.

3 Solar Power's Transition into a Mainstream Generation Resource

Monday, December 17 from 6:00 to 7:30 pm
Location ASU SkySong, Global 201

After a brief reception, this **lecture** will address how electricity produced from solar resources is now well within reach to be competitive with conventional sources. While rapid cost reduction has contributed to this position, a number of other factors have also been critical to achieve "grid parity" in utility scale PV plants, along with future significant cost reduction road maps poised to transition solar power from serving what has been principally a subsidy driven market to a more sustainable model with emphasis on competition with fossil fuel generation. Dr. Morjaria will discuss how this transition is opening up greater opportunities for solar power to be a compelling solution to meet a variety of contemporary energy demands by a number of factors that will play an important role in solar energy growth.

Questions: (480) 965-9572 Rebecca.Davis@asu.edu

RSVP online at www.asulightworks.com