**Education for Workforce Development:**

**A PSERC Future Grid Initiative Progress Report**

Chanan Singh, Texas A&M University (singh@ece.tamu.edu)  
Raja Ayyanar, Arizona State University (rayyanar@asu.edu)  
James Bushnell, University of California, Davis (jbbushnell@ucdavis.edu)  
Mladen Kezunovic, Texas A&M University (kezunov@ece.tamu.edu)  
James Momoh, Howard University (jmomoh@howard.edu)  
Anurag Srivastava, Washington State University (asrivast@eecs.wsu.edu)

PSERC Public Webinar  
Tuesday, March 5, 2013  
2-3:15 PM Eastern Time (11 AM-Noon Pacific Time)  
Q&A until 3:30 PM Eastern

**Description:** The PSERC Future Grid Initiative is a DOE-funded project entitled "The Future Grid to Enable Sustainable Energy Systems" to investigate the requirements of an electric grid with high penetrations of sustainable energy systems and heavy reliance on cyber systems for sensing and communication. This webinar will provide an overview of the accomplishments of work done in the thrust area “Workforce Development” on the following tasks:

- **Comprehensive Educational Tools for Reliability Modeling and Evaluation of the Emerging Smart Grid:** To develop educational material for teaching reliability modeling and evaluation of the emerging power grid with heavy penetration of renewables and massive deployment of computer and communication technologies.

- **PSERC Academy - A Virtual Library of Thousands of Short Videos:** To create an online library of short (i.e., 15-20 minute) videos on various topics of sustainable energy systems, smart grid and power engineering, and on important background topics required to understand these concepts.

- **A Course in Energy Economics and Policy:** To develop a masters-level graduate course on the Policy and Economics of Energy Markets designed for both non-economists with backgrounds in energy technology and engineering, and economists interested in applications to energy.

- **Smart Grid Education for Students and Professionals:**  
  1. To build a comprehensive educational package that will reach out to educators, students, practicing engineers, managers, legislators, public officials, etc.  
  2. To write a textbook and prepare a set of supplemental PowerPoint presentations that may be used.

- **Energy Processing for Smart Grid Technology:** To develop a university course, with materials, on smart grid technology for undergraduates and first year graduate students.

- **Course Development, “Critical Infrastructure Security - The Emerging Smart Grid”:** To develop a university course that with multi-disciplinary content from areas of data communication, computing, control, and cyber-security that provides the necessary background for engineering students to work on problems, issues and cyber-security challenges associated with the smart grid.

More information about the Future Grid Initiative is available on the [PSERC website](http://www.pserc.org).
**Registration for Webinar Participation**: None required. There is no charge for participating!

**Participation by Webinar**: There are several options for participating.

- **Recommended option**: We will be using the Adobe Connect 9 webinar platform. You will be able to watch the presentation slides on your computer from the designated site [http://asu.adobeconnect.com/pserc/](http://asu.adobeconnect.com/pserc/) and listen to the webinar through your computer’s speakers or headphones. Click here for the connection details and instructions for testing your connection. If you cannot hear the presenter, check to make sure your speaker is not muted in Adobe Connect. It may also be possible to use the app “Adobe Connect™ Mobile” to participate via smartphone or tablet.

- You can also listen to the audio over the public phone bridge at 712-432-0800 (passcode: 937250#). Be sure to mute your phone (press *6) so sounds in your room do not go out to the phone bridge with other listeners. Should you not be able to connect to the webinar, you can also download the slides from the PSERC website and listen to the audio over the phone.

- You can watch the archived webinar at a different time by clicking here and then on the link for this webinar. Note: This is also another way to watch the webinar in real-time.

**Asking Questions During the Webinar**: You are invited to ask questions or make comments during the webinar using the Adobe Connect webconferencing platform. Just enter your question into the Q&A box.

**Professional Development Hour Certification**: PDH certification is available for PSERC members (only). Send an email requesting PDH certification to pserc@asu.edu with the subject “PDH”. Include the name and title of each participant.

**Assistance**: If you have any questions, please call 480-965-1643 or email pserc@asu.edu.