Control and Protection Paradigms of the Future:
A PSERC Future Grid Initiative Progress Report

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PSERC Public Webinar
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2-3 PM Eastern Time (11 AM-Noon Pacific Time)
Q&A until 3:15 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 “Control and Protection Paradigms of the Future” on the following tasks:

- Hierarchical Coordinated Control of Wind Energy Resources and Storage for Electromechanical Stability Enhancement of the Grid: To develop control methodologies and designs that address the problem of maintaining grid electromechanical stability as the percentage of power production from synchronous generators, the traditional grid stabilizing mechanism, decreases in the coming decade.

- Requirements for Hierarchical Coordinated Control and Protection of the Smart Grid: To define the overall concept for hierarchical coordinated control and protection of the smart grid assuming that a hierarchical and distributed structure will be used in the future grid.

- Hierarchical Coordinated Protection of the Smart Grid with High Penetration of Renewable Resources: To define the three hierarchical coordinated layers of predictive protection, inherently adaptive protection, and corrective protection in the future grid, using real-life systems scenarios with modeling and simulation to demonstrate findings.

More information about the Future Grid Initiative is available on the PSERC website.

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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/ 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: To ask questions during the webinar, you will need to use Adobe Connect. 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.