



Power Systems Engineering Research Center

Primary and Secondary Control for High Penetration Renewables

Chris DeMarco

Professor, Electrical and Computer Engineering
University of Wisconsin-Madison

PSERC Public Webinar
Tuesday, March 20, 2012
2:00-3:00 p.m. Eastern Time (11:00-12:00 p.m. Pacific)

[Note: The white paper and slides associated with this webinar will be posted on the PSERC website at www.pserc.org in advance of the webinar.]

Description

The growing penetration of renewable generation technologies coupled to the grid through power electronic interfaces, and the potential for future growth of electrical storage similarly coupled through power electronics, raise new opportunities and challenges for primary and secondary control in the electric power system. In this context, we need to fundamentally re-examine the long-standing premises of primary and secondary control in the grid. We also need to consider both the capabilities of the new “control actuators” available to us (i.e., renewable generation, supplemented by power electronic coupled storage), as well as the wider system objectives to be achieved by the control. This approach will offer solutions far superior to simply trying to force new generation and storage technologies to behave like the old.

This webinar is based on one of nine white papers in the project “The Future Grid to Enable Sustainable Energy Systems: An Initiative of the Power Systems Engineering Research Center” funded by the U.S. Department of Energy. More information about the Future Grid Initiative is available on the [PSERC website](http://www.pserc.org).

Speaker Contact Information: Chris DeMarco, demarco@engr.wisc.edu

Registration for Webinar Participation: None required. There is no charge for participating!

Participation by Webinar: We will be using the Adobe Connect 8 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. Access is limited. However, the webinar will be archived so it can be watched later. You can also get the audio over the public phone bridge at 712-432-0800 (passcode: 937250#).

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” after the seminar. *Include the name and title of each participant.*

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

PSERC’s Webinar Coordinator

Ward Jewell, Wichita State University

Email: ward.jewell@wichita.edu

Ward welcomes feedback on the webinars and suggestions for future ones.