THE NORTH AMERICAN SYNCHROPHASOR INITIATIVE

WEBINAR SERIES

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Real-Time Oscillation Analysis: Technology Readiness, and a Vision for Future Needs and Applications

Power system operators have made significant progress detecting and mitigating oscillations using synchrophasor measurements. Commercial and custom-made software is used to monitor stability margins, detect sustained oscillations, and identify underlying problems. Despite the progress, recent wide-area oscillation events have highlighted the need for improved coordination among grid operators and wider use of oscillation detection and source localization tools. Grid operators have also identified the need to better understand changes in system dynamics related to the rapidly changing generation mix. During this webinar, panelists will first present success stories from oscillation analysis technology deployments and provide an overview of efforts to address current and emerging challenges. These will focus on activities among the WECC Oscillation Analysis Working Group (OAWG), NERC Synchronized Measurement Subcommittee (SMS), and DOE-funded research teams.

Jim Follum received the B.S. and Ph.D. degrees in electrical engineering from the University of Wyoming in 2011 and 2014, respectively. He joined the Department of Energy's Pacific Northwest National Laboratory (PNNL) in 2014 as a Power System Research Engineer. His research focuses on the application of signal processing techniques to problems of power system dynamics. He is the co-chair of the Oscillation Analysis Working Group (OAWG) under WECC's Joint Synchronized Information Subcommittee (JSIS) and a member of the IEEE Oscillation Source Localization Task Force.

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