



## THE NORTH AMERICAN SYNCHROPHASOR INITIATIVE WEBINAR SERIES

Matthew Rhodes (Salt River Project) and Daniel Goodrich (Bonneville Power Administration)

### Recent BESS Oscillations: Root Cause Analysis and Wide-Area Impacts

This webinar presents an opportunity to examine both root cause analysis and wide-area impacts of recent oscillation events. Monitoring and mitigation of oscillations like these are important aspects of reliable power system operation. One of the most successful applications of synchrophasor networks is oscillation analysis, but as the generation resource mix changes, new dynamics are beginning to appear. Recently, oscillations from battery energy storage systems (BESSs) near solar generation facilities have been observed across the Western Interconnection. During this webinar, Matthew Rhodes from SRP will discuss the results of a root cause analysis to understand the local mechanisms that led to the oscillations. To complement this local perspective, Daniel Goodrich of BPA will describe how the oscillations were observed hundreds of miles away with BPA's synchrophasor-based tools. The capabilities of these tools and opportunities for refinement will also be discussed.



**Matthew Rhodes** is a Principal Engineer in Grid Operations Support at Salt River Project (SRP) in Phoenix, Arizona. He has worked in System Protection at SRP for 13 years improving SRP's synchrophasor network and in SRP's Transmission and Generation Operations group enabling successful synchrophasor application implementation for operations. Matthew serves as Co-Chair for NASPI's Engineering Analysis Task Team (EATT).



**Daniel Goodrich** is a Senior Member of IEEE and is presently the Chair of the IEEE Oregon Section. He has worked at BPA for 14 years and analyzes major power system disturbances to help ensure reliable power. He is a registered Professional Engineer. He lives in Vancouver, WA with his wife and 3 cats.

To attend this free webinar, please register at <https://www.naspi.org/node/991>.

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**Wednesday, July 10, 2024**

**10:00 a.m. Pacific / 1:00 p.m. Eastern (1 hr.)**

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