

# Next Generation Network (NGN) Webinars



## WAMS Solutions for Improving Real-Time Operations and Planning

### Summary

As the power grid becomes more dynamic and complex with the integration of renewable energy, inverter-based resources, and new operational challenges, real-time visibility and data-driven decision-making are more critical than ever. This presentation provides an overview of Wide Area Monitoring Systems (WAMS) using Phasor Measurement Units (PMUs), and how utilities and grid operators are leveraging these technologies to improve grid reliability.

This presentation will describe real-world applications including oscillations management, inertia monitoring, system strength monitoring, and model validation. The session will highlight practical challenges that are addressed using WAMS solutions, and share lessons learned from industry implementations across North America and internationally. We will also discuss evolving trends in WAMS applications, including their role in supporting both real-time operations and planning, and how utilities can build a roadmap for success in leveraging high-resolution grid data.

### Speaker

Neeraj Nayak is the Vice President of Advanced Applications and Analytics at Electric Power Group (EPG). He leads the engineering team at EPG responsible for research, development, implementation, training, and support of WAMS applications for use in grid operations and planning. Neeraj has over 10 years of experience working with grid operators and utilities in North America and internationally to implement WAMS solutions. Neeraj also leads multiple DOE research and demonstration projects related to synchrophasor technology. Neeraj is an active member of NASPI and IEEE. He has a Master's Degree in Electrical Engineering from the University of Southern California (USC).

### Links & Information

Thursday, February 19, 2026  
12 pm CST | 1 pm EST

Duration: 1 hour

[Register Here](#)



**Neeraj Nayak**

### **Electric Power Group**

*Vice President of Advanced Applications and Analytics*