



NASPI Work Group Hybrid Meeting and Vendor Show

Electric Power Research Institute (EPRI)

1200 W. WT Harris Blvd Charlotte, North Carolina

Building 3, Room 741

September 23-24, 2025

The North American Synchrophasor Initiative (NASPI) Work Group Hybrid Meeting and Vendor Show will be held in Charlotte, North Carolina, September 23 - 24, 2025, featuring invited speakers and technology partners demonstrating their latest offerings. You will hear presentations from companies and individuals who are using synchrophasor technology successfully to solve specific challenges and the lessons they learned along the way. Our distinguished keynote speakers are Aidan Tuohy, Director of EPRI Transmission Operations & Planning, and Jeff Dagle, Chief Electrical Engineer at Pacific Northwest National Laboratory.

NASPI Work Group registration: Early-bird [registration](#) will be \$415 for regular attendees and \$175 for students until August 22nd, 2025. Rates will then increase to \$515 for regular attendees and \$275 for students. Registration fees are the same for both in-person and remote participation.

NASPI welcomes you to Charlotte, North Carolina. We are providing a link to a [brochure](#) that contains maps of EPRI's campus and the local area as well as a list of hotels, restaurants, and area attractions.

Hotel rates: EPRI *has negotiated rates for the hotels listed* on page two of the [brochure](#). If you have already secured a room at one of those hotels, please call the hotel and ask for the **EPRI** rate.

Partners: If you are a vendor and would like to attend this meeting in person as a NASPI Partner, please review the [Partnership Opportunity](#) document. Determine what level of partnership you would like and make your selection on the registration site. Your additional attendees will be sent a code to register as noted in the partner document. Partner tables will be setup at the back of the main meeting room. All our partners will receive shipping instructions and setup/take down times and dates for the EPRI location. If you have any additional questions, please email naspi@pnnl.gov.

For those of you attending remotely, please note all times below are **Eastern Time**.

Tuesday, September 23, 2025	
8:30 – 9:30 am	Registration and coffee
9:30 – 9:35 am	Welcome, Introductions, and Logistics Review: Jim Follum (PNNL)
9:35 – 9:55 am	Keynote 1: Welcome – Aidan Tuohy, Director of EPRI Transmission Operations & Planning (EPRI)
9:55 – 10:15 am	Keynote 2: NASPI History – Jeff Dagle (PNNL)
10:15 – 10:35 am	NASPI Update – Jim Follum (PNNL)
10:35 – 11:00 am	Break
	Session 1 – Large Electronic Loads Panel
11:00 – 12:00 pm	<ul style="list-style-type: none">• Large Electronic Load Events in ERCOT – Patrick Gravois (ERCOT)• Emerging Challenges from Data Centers in Dominion Energy – Chetan Mishra, Kevin Jones, and Jaime De La Ree (Dominion Energy)• Southern Company's Experience with Large Electronic Loads – Clifton Black (Southern Company)

12:00 – 1:00 pm	Lunch
	Session 2 – Synchro-Waveform Applications Panel
1:00 – 2:00 pm	<ul style="list-style-type: none"> • Coordination and Augmentation Requirements for AI/ML in Distribution Waveform Analytics - Hamed Valizadeh-Haghi (Southern California Edison) • Observed Effects of Geomagnetic Disturbances from Wide Area Monitoring System – Theo Laughner (Lifescape Analytics) • Challenge in Synchronization: Time-Stamping Synchronized Waveforms – Christoph Lackner (Grid Protection Alliance)
2:00 – 2:40 pm	Session 3 - Technology Partner Flash talks (5 minutes each)
2:40 – 3:00 pm	Break
	Session 4 - Task Team Breakout Sessions
3:00 – 5:00 pm	<p>Control Room Solutions Task Team (CRSTT)</p> <ul style="list-style-type: none"> • Welcome from Task Team Leads – Mike Nugent (NextEra Energy) and Kliff Hopson (Bonneville Power Administration) • NASPI Role-Based Training (Operations) – update and discussion • CRSTT/SMWG Roadmap for Integrating Synchrophasors into Operations – discussion • Real-Time Stability Monitoring SAR Task Force – overview and working session
	<p>Data & Network Management Task Team (DNMTT)</p> <ul style="list-style-type: none"> • Welcome from Task Team Lead - Dan Brancaccio (Quanta Technology) • Comparing Different Architectures for Synchronized Measurements in the Cloud: Results from DOE's GOAAT-IBR Project – Chris Carpenter (Quanta Technology) • COMTRADE for Point on Wave Data: What's Old is New Again – Dan Brancaccio (Quanta Technology) • DNMTT Work Products Discussion & Planning
	<p>Distribution Task Team (DisTT)</p> <ul style="list-style-type: none"> • Welcome from Task Team Leads – Panos Moutis (City College of New York) and Bryce Johanneck (The Grid Company) • Progress and Next Steps of Promotional Video/Slide-Deck Development – Panos Moutis (City College of New York) • Synchronized Measurements for Monitoring Distribution Grid Cable Installations – Bryce Johanneck (The Grid Company) • Round Table Discussion: The who-is-who of synchronized measurements at the distribution level • Round Table Discussion: Data and communication concerns with synchronized measurements at the distribution level
	<p>Engineering Analysis Task Team (EATT)</p> <ul style="list-style-type: none"> • Welcome from Task Team Leads – Urmila Agrawal (Electric Power Group) and Lin Zhu (EPRI) • IBR Performance Response and Analytics Monitoring (IPRAM) Task Force Update – Priya Mana (PNNL) • White Paper Update: Bulk Power System Oscillation Terms – Urmila Agrawal (EPG) • Regional Grid Inertia Estimation and Nadir/RoCoF Prediction Using Ambient Synchrophasor Measurements - Lin Zhu (EPRI) • Optimal PMUs/WMUs Placement for Oscillations Monitoring and Detection - Jin Tan (NREL) • Round table discussion on next steps
5:00 – 7:30 pm	NASPI Reception, Vendor Show

Wednesday, September 24, 2025	
8:30 – 9:30 am	Registration and coffee
	Session 5 – NASPI Task Team Updates
9:30 – 10:15 am	<ul style="list-style-type: none"> • CRSTT – Michael Nugent and Kliff Hopson • DNMTT – Dan Brancaccio • DisTT – Panos Moutis and Bryce Johanneck • EATT – Urmila Agrawal and Lin Zhu
	Session 6 – NASPI Task Force Updates
10:15 – 10:40 pm	<ul style="list-style-type: none"> • SMWG/NASPI Role-Based Training Task Force – Clifton Black and Eric Andersen • IEEE/NASPI Synchro-Waveform State of Practice Task Force – Hamed Mohsenian-Rad and Jhi-Young Joo
10:40 – 11:00 am	Break
	Session 7 – Oscillation Monitoring and Analysis
11:00 – 11:20 am	Duke Energy’s Experience with Oscillation Monitoring and Analysis – Kat Sico (Duke)
11:20 – 11:40 am	KGRID: Crowd Sourced Voltage Waveform Monitoring – David Daigle (CAISO)
	Session 8 – Utility Success Story
11:40 – 12:00 pm	Utilizing Synchrophasor Data for Non-Intrusive Equipment Failure Detection and Asset Health Monitoring: Lessons learned from two case studies at New York Power Authority – Sagnik Basumallik (New York Power Authority)
12:00 – 1:00 pm	Lunch
	Session 9 – Distribution
1:00 – 1:20 pm	Analysis of Waveform Measurements from Utility Distribution Systems: Lessons Learned – Jhi-Young Joo (Lawrence Livermore National Laboratory)
1:20 – 1:40 pm	Investigation of Performance Requirements for Distribution PMUs – Ken Martin (Electric Power Group)
	Session 10 – Organization Updates
1:40 – 2:40 pm	<ul style="list-style-type: none"> • IEEE PSRC/PSCCC – Yi Hu • NERC SMWG – Clifton Black • CIGRE C4/C2.62 – Evangelos Farantatos • IEEE Synchro-Waveform Task Force – Hamed Mohsenian-Rad and Jhi-Young Joo • IEEE Forced Oscillation Task Force – Farrokh Aminifar • Smart Grid Synchronized Measurements and Analytics (SGSMA) – Panos Moutis
2:40 – 3:10 pm	Break
	Session 11 – Data Management
3:10 – 3:30 pm	Operator Analytics and Assessment Tools for Inverter-Based Resources Dominated Grid (GOAAT-IBR): Q1-Q4 Project Updates – Farrokh Aminifar and David Hart (Quanta Technology)
3:30 – 3:50 pm	PMU Data Quality Monitoring at BPA - Kliff Hopson (BPA)
	Session 12 – NASPI Challenge
3:50 – 4:10 pm	Exploring Approaches to Time-Series Streaming and Event Triggers – Jared Bestebreur (Schweitzer Engineering Laboratories)
4:10 – 4:30 pm	Grid Data Commons – A Shared Resource for AI-Driven Analytics – Sean Murphy (PingThings)
	Closing
4:30 – 4:45 pm	Closing remarks, open discussion, next steps – moderated by Jim Follum
4:45 pm	Adjourn

NASPI would like to say **“THANK YOU”** to the following partners for their support.

Gold Partners

Silver Partners

