



Engineering Analysis Task Team Updates

Co-Leads: Urmila Agrawal (EPG), Lin Zhu (EPRI)

Charlott, NC

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Agenda

- Welcome from Task Team Leads – Urmila Agrawal (EPG) and Lin Zhu (EPRI)
- Task Force Update: IBR Performance Response and Analytics Monitoring (IPRAM) – Priya Mana (PNNL)
- Task Force Update: Bulk Power System Oscillation Terminology and Recent Event Examples – Urmila Agrawal (EPG)
- Presentation: Regional Grid Inertia Estimation and Nadir/RoCoF Prediction Using Ambient Synchrophasor Measurements - Lin Zhu (EPRI)
- Presentation: Optimal PMUs/WMUs Placement for Oscillations Monitoring and Detection - Jin Tan (NREL)

Task Force Update - IPRAM

- Task force led by Priya Mana (PNNL)
- Priya provided an update on the progress made so far
- Plan to finalize the white paper by next NASPI meeting in April 2026
- Discussion focused on the performance monitoring and evaluation of IBR response

Task Force Update – Oscillations Terminology and Recent Event Examples

- Task force led by Urmila Agrawal (EPG) and Jimmy Zhang (ERCOT)
- Urmila provided an update on the progress made so far
- Scope of the white paper expanded to include oscillations monitoring, analysis and diagnosis

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Presentations

- Regional Grid Inertia Estimation and Nadir/RoCoF Prediction Using Ambient Synchrophasor Measurements - Lin Zhu (EPRI)
 - Lin provided a review of different existing approaches to estimate inertia of the grid using synchrophasor measurements and discussed significance of the regional inertia estimation
 - Presented the proposed methodology to estimate regional inertia using ambient synchrophasor measurements and presented simulated data-based results
- Optimal PMUs/WMUs Placement for Oscillations Monitoring and Detection - Jin Tan (NREL)
 - Jin presented approach for the optimal placement of the PMUs/WMUs for oscillation monitoring and detection
 - Methodology focused on improving the observability of the grid for oscillations monitoring



Thank you for attending the NASPI Fall Hybrid Meeting 2025

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