

Mission Statement

The mission of the Distribution Task Team (DisTT) is to foster the use and capabilities of networked PMUs at the medium-voltage distribution level, beyond the substation.

This group will share information in support of effective research, development and deployment of distribution PMUs and their applications.

We aim to create a community to solve technical and other challenges specific to distribution PMU technology and context.

See www.naspi.org/distt

Agenda

Introductions

White Paper: Table of Contents overview

What's missing

Individual assignments

New Business

WP Table of contents as of today

Premise & context of distribution PMUs

Definitions of quantities

Practical aspects of installation and use

Communication and data collection

Distribution-specific applications

Data quality, transducer errors

More refined definition of quantities

History of PMU development

Ongoing distribution PMU research efforts & deployments

Suggestion

- Emphasize “synchronized measurements” over “PMUs”

Additional Use Cases

- Distribution level automated control
- Microgrid monitoring, coordination and control
- State estimation (hard)
- Validate ancillary services/demand response

Additional topics to address in White Paper:

- Community dependence on distribution grid and vulnerabilities (cyber-security issues)
- Privacy
- Significance of epistemological difficulties with precise φ

Possible next work assignment:

Practical guide to PMU placement in distribution systems

Future study:

- Integration of PMUs into transformers, inverters
- Supporting DER integration and microgrid integration with PMUs

DisTT Logistics

Workspace <https://spteam1.pnnl.gov/sites/naspi/distt/default.aspx>

Request access from Teresa Carlon, teresa.carlon@pnnl.gov

Using the email list

naspi-taskteam-distribution@lyris.pnnl.gov

Deadline for White Paper additions & comments: Friday,

October 13 email to Sascha von Meier,

vonmeier@berkeley.edu