

Research and development directed to Improving the electrical distribution system through novel sensors and robust edge computing.

Clamp-on and inductively coupled line power permits flexibility to use where needed. Wide bandwidth to support distinguishing among types of disturbances.

Applications

- Demonstrated
- Fault-type identification
- Fault location
- Islanding detection
- Under Development
- Intermittent brush/tree interactions
- Downed line detection
- Cracked insulators

Key Indutrial Collaborators

- Wood County Electrical Cooperative
- Verivolt
- NI
- Eaton
- Capstan Technologies
- And technical support from Argonne National Laboratory

Test Capability

- Laboratory capability generates years' worth of operational date in weeks
 - 1MW microgrid
 - Controlled fault generation
 - Hardware-in-the-Loop
 - Opal-RT network simulation
 - Outdoor vegetation and downed line test facility
- Supported by field demonstration at Wood County Electric Cooperative

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