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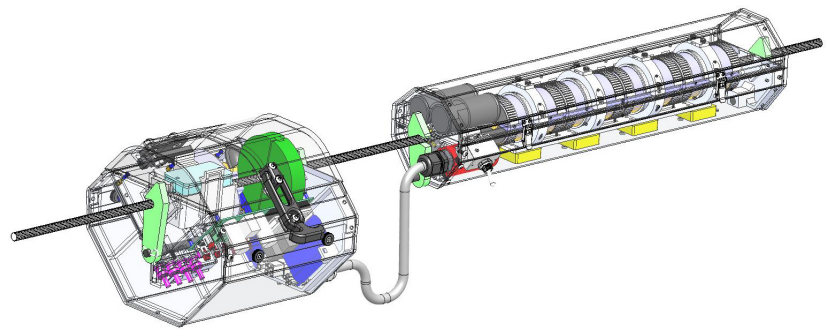
Applications
• Demonstrated
  - Fault-type identification
  - Fault location
  - Islanding detection
• Under Development
  - Intermittent brush/tree interactions
  - Downed line detection
  - Cracked insulators

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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