EIP118
Extending the Life of Assets

Whilst maintaining system reliability

ENA Basecamp 2024
Jonathan Powell
SSEN Transmission
Extending the life of assets whilst maintaining system reliability

Problem Statement

• Extending asset life is critical for system cost reduction and enabling investment for expansion and reinforcement of the network.
• Smarter monitoring of assets conditions are needed for ageing assets.
• Current practice mainly involves sending engineers to inspect assets onsite and includes substations, transmission towers and distribution poles.
• Recently there has been efforts to develop smarter ways of monitoring assets.
• However, it is still not Business as Usual (BaU) which may be due to a lack of coordination to create a holistic system for smarter monitoring and management.

Opportunity for Innovators

• New ways to remotely monitor assets.
• Novel solutions for health monitoring of equipment.
• Developing a solution for integrated asset monitoring - a holistic approach.
• Predictive maintenance tools and intelligently forecasting failure modes.
Extending the life of assets whilst maintaining system reliability

Considerations

• Innovators should demonstrate knowledge of previous innovations in this area.

• Pitches are to have a clear roadmap to BaU.

• Keen to see solutions for the management, integration and storage of large datasets.

• Data management solutions should be able to be integrated with existing and planned systems within the network.

Stakeholders

• Network project engineering and asset management teams.

• Data custodians and analytics teams within the Network.

• Third party providers that already provide asset monitoring solutions.
Extending the life of assets whilst maintaining system reliability

Current and Previous projects include

Current
- EPRI Substations (P37) and Analytics (P34) NIA2 NGET0008
- EPRI Research Collaboration on Underground Transmission (P36) NIA2 NGET0012

Previous
- Condition Monitoring of Power Assets (NIA NGET0147)
- Network Reliability Asset Replacement Decision Support Tool NIA NGET0148
- Understand and Improving Condition, Performance, and Life Expectancy of Substation Assets NIA NGET0118
Contact details:

Jonathan Powell
jonathan.powell@sse.com