

EIP118

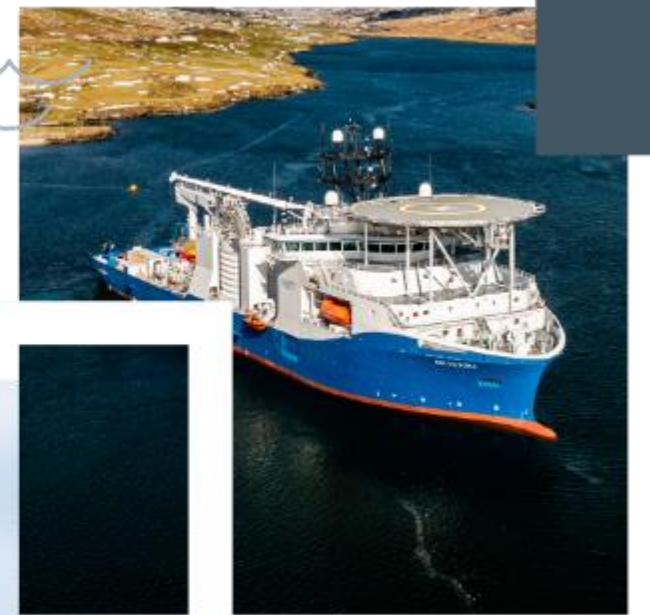
Extending the Life of Assets

Whilst maintaining system reliability

ENA Basecamp 2024

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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.



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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.



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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**

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