Project TReNDS
Digital Substations
Mini Nambiar
Innovation Project Manager
TReNDS (TRansmission Network Digital Substation)

**Vision**

- A substation where information & control signals are transferred digitally (using fibres)

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<th>Standardise delivery</th>
<th>Multi-vendor</th>
<th>Interoperability</th>
<th>Cyber Secure</th>
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- **Project Benefits**
  - CAPEX savings
  - Faster Construction
  - Increased Standardisation

- **Operational Benefits**
  - Improved Safety
  - Improved Data
  - Risk Based Asset Management

**Funding** – Ofgem Non-Operational IT Reopener
What is a Digital Substation?

- There are many different interpretations based around BS EN 61850 standards.
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TReNDS (TRansmission Network Digital Substation)

- Initial Research
- Detailed Design and Testing
- Standardised Specification
- CoE Digital Substation Training
- Operational Methodology update

Station Bus
Process Bus

Change Management
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Project Delivery
Change Management

Dec’24
Jul’25
BAU