

SECONDARY SCADA TELECOM REPLACEMENT PROJECT



SERVICES PROVIDED

- Substation Survey
- HV Outage Planning
- HV Switching
- Liaison with NPg Telecommunications
- Testing & Commissioning of new Orbit RTU radios

LOCATION

Various NPg Sites throughout the Northeast & Yorkshire

OVERVIEW

NPg operates a ground mounted remote-control system across their distribution substation network. This system enables them to monitor plant on the distribution network and carry out remote switching from the system control centres.

To enhance the capability and capacity of this system, NPg required the commissioning of radio equipment at strategically identified sites on the distribution network across both the NPg Northeast plc and NPg Yorkshire plc license areas.

This will minimise the impact and duration of unplanned fault related loss of supplies to reduce the number of Customer Minutes Lost (CML's) and provide excellent customer service.



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THE PROJECT

The scope of work was to update existing equipment and software for remote-control systems aligned with the NPg Secondary SCADA project for 2022. The work was on the 11kV and 20kV ground mounted networks in both NPg licensed areas and was a mixture of indoor and outdoor substation locations.

The work included:

- Management of radio commissions when at the site.
- Provision of suitably skilled and authorised staff for all HV switching and commissioning-related operational activities.
- Organisation of the HV outage requests on the NPg network in the northeast. This may include IUS switching out HV circuits and issuing safety documentation where applicable.
- In Yorkshire, liaison with the NPg Telecommunications team to facilitate testing and change of the substation site radios and commissioning confirmation.
- Arrange all necessary access permissions, highlighting any substation issues where sites are inaccessible or have vegetation issues, which should be reported as part of basic housekeeping through the 159-reporting process (NPg Amp 2 View application).

Critical to the successful delivery of these works was the effective liaison with NPg's Secondary SCADA Project team, Telecommunications, Technical Service teams, and appointed third-party companies such as EMR Integrated Solutions and Charlestown. IUS worked collaboratively on-site with the NPg-appointed contractors to facilitate the collective delivery of this work.

" We would not have been able to complete the secondary SCADA telecom replacement project without IUS engagement. They completed over 6500 upgrades across both of Northern Powergrid's regulatory areas, overcoming obstacles as and when they arose and completing all work to a very high standard. A very big thank you to all individuals and management involved with the project."

Cefin Parry - IS Programme Manager, Northern Powergrid