



## IVER TO LONGFORD 132kV CABLE INSTALLATION

<b>Client</b>
Scottish & Southern Electricity
<b>Project &amp; Location</b>
Iver to Longford 132kV
<b>Duration</b>
Start: 2016
Completion: 2016
<b>Infrastructure Requirement</b>
Network Diversion
<b>Scope of Works</b>
<ul style="list-style-type: none"><li>▪ Turnkey solution</li><li>▪ TWD, civils &amp; reinstatement</li><li>▪ Overhead line diversion</li><li>▪ Horizontal Directional Drilling</li><li>▪ Testing &amp; commissioning</li></ul>

## PROJECT OVERVIEW

As part of the Crossrail GWR electrification project Instalcom was appointed Principal Contractor to provide a complete turnkey solution which included; cable system design, supply of cable and accessories, civil works, cable installation, jointing and terminations onto newly formed terminal towers.

The works included the testing and commissioning of the two newly installed and fully ducted 132/76kV 1600mm<sup>2</sup> aluminium conductor / lead sheath circuits of circa 1.2km. The project included three locations of Special Engineering Difficulties (SED's) that were overcome using Horizontal Directional Drills (HDDs) techniques to include a rail crossing, which were designed and installed by the Instalcom in-house drilling team.

The project had a number of complexities including excavations in the vicinity of a sewage treatment works and requirement to cross a golf course both requiring proactive stakeholder engagement to ensure completion in accordance with their specific requirements.

## DELIVERY & INNOVATION

- Instalcom appointed as Principal Contractor
- Instalcom responsible for civils route and temporary works designs
- Instalcom adopted collaborative approach in working with SSEN and Crossrail
- Instalcom trenchless installations
- Network diversion works completed safely, two weeks ahead of schedule and to budget

## KEY CHALLENGES

- Critical programme & outage dates
- Design approvals within timescales
- Interface with multiple stakeholders
- Vehicle access and egress
- Restricted plant movements
- Maintaining stakeholder access
- Trenchless installations of crossings
- Out of hours security



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Instalcom Ltd

## PROJECT KPIs

- Achieved ZERO harm
- No Environmental incidents
- Full compliance with Technical Specifications and high quality engineering
- Outperformed Programme milestone dates and completed two weeks early
- Proactive communications with stakeholders and third parties resulting in positive interactions and outcomes
- Exceeded Customer Care expectations
- Successful brand promotion of SSEN
- Common protocols embraced leading to enhanced Instalcom / SSEN relationship



## CONTACT US

Want to know more about the Instalcom infrastructure service offering in the following sectors:-

- Power
- Water
- Telecoms
- Rail
- Gas
- Multi-Utilities
- Trenchless Installations

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