



## IVER TO SLOUGH 132kV CABLE INSTALLATION

### Client

Scottish & Southern Electricity

### Project & Location

Iver to Slough 132kV

### Duration

Start: July 2013

Completion: June 2014

### Infrastructure Requirement

Network Reinforcement

### Scope of Works

- Turnkey solution
- TWD, civils & reinstatement
- Horizontal Directional Drilling
- Dewatering
- Testing & commissioning

## PROJECT OVERVIEW

Instalcom was appointed by SSEN as Principal Contractor to design, install and commission a dual circuit 132kV ducted connection between Iver substation and Slough substation, a route length of 11km. The works included the cable system design, trench and joint bay excavations, trenchless installations using Horizontal Directional Drilling techniques (designed and installed by Instalcom in-house teams), cable installation, jointing, testing, backfilling and permanent reinstatement. The most significant challenge was the need to complete a drill under the M25 with the reception pit located within agricultural land on a significant flood plain.

The original boreholes were carried out in 2009, which was an abnormally dry period, indicating water at a depth of approximately 1.6 m, however during the course of the works water was encountered at 0.8m below ground level. To overcome this engineering difficulty Instalcom installed a well point dewatering system that enabled the drill to proceed unhindered. At the request of Highways England we provided deformation monitoring results prior, during and upon completion of the drilling works, where all results were consistent throughout the process and during the post installation monitoring period.

## 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 Highways England
- Instalcom trenchless installation and dewatering system
- Network reinforcement works completed safely, on time and to budget

## KEY CHALLENGES

- Programme & outage dates
- Interface with multiple stakeholders
- Vehicle access and egress
- Restricted plant movements
- Maintaining stakeholder access
- Trenchless installations of crossings
- Work location with flood plain
- Dewatering & continuous monitoring
- 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
- Compliance with Programme milestone dates
- 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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