



## 11/33kV Substation Leicester

**Client**

Western Power Distribution (WPD)

**Project & Location**

33kV Substation, Leicester

**Duration**

Start: March 2017

Completion: September 2017

**Approx. Value**

£450k

**Scope of Works**

- Construction of 33/11kV Transformer Compound
- Construction of 33/11kV Switch Room Building
- P/C and M/C ducting and 11kV power cable installation
- Access Road, Fencing, Drainage & Surfacing Works

## PROJECT OVERVIEW

Instalcom was appointed by WPD as the Principal Contractor to construct a new 11/33kV substation to include transformer and NER foundations and bund walls. The enabling works included site clearance and low-level bioremediation. Cast in-situ was used for the construction of the cable basement foundation with complex temporary works design completed by Instalcom. The substation was brick/block construction with Bison hollow core precast concrete slabs for the roof and floor level.

Instalcom completed all associated civil engineering works to include trench excavations and duct installation HV, EHV and multicore cables, to include the construction of draw pits and road crossings whilst maintaining continued access to the site. The works also included the installation and testing of the new earthing grid and necessary bonding. The civils also required the construction of surface and foul water drainage systems, erection of palisade security fence including gates, removable fence posts and the construction of site access roads.

Instalcom was supported by OEMs to install, test and commission switchgear and distribution equipment.

## DELIVERY & INNOVATION

- Instalcom appointed as Principal Contractor.
- Works were completed safely, on time and to budget.
- Instalcom adopted a collaborative approach in working with WPD and their other contractors appointed to the works. Including Original Equipment Manufacturers (OEM's)
- Instalcom implemented a safety behavioural programme initiative 'mindset'.

## KEY CHALLENGES

- Interface with multiple stakeholders
- Restricted plant movements
- Vehicle Access and Egress
- Residential Working Restrictions
- Working within close proximity to public
- Compact site construction
- Short project delivery timescale



# 11/32kV DNO Substation Extension Leicester

Instalcom Ltd

## PROJECT KPIs

- Achieved ZERO harm.
- No Incidents.
- Full compliance with technical specifications and high-quality engineering.
- Full Compliance with Programme Milestone Dates.
- Exceeding Customer Care Expectations.
- Proactive communication with stakeholders and third parties.



## 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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