



# REDUNDANT 400kV OIL FILLED CABLE REMOVAL

## ROSS-ON-WYE, HERTFORDSHIRE



### Power

Value	Undisclosed
Voltage	400kV
Market segment	Network operator
Duration	3 months



### Pre-construction

JSM were appointed to remove the redundant Ross-On-Wye 400kV oil filled cable route section of a 1.98km circuit. This included joint bays between Walford SEC and joint bay 11/12, near the Wye River in a site of special scientific interest (SSSI) site. The total length of this twin circuit was 1.98km.

### Construction

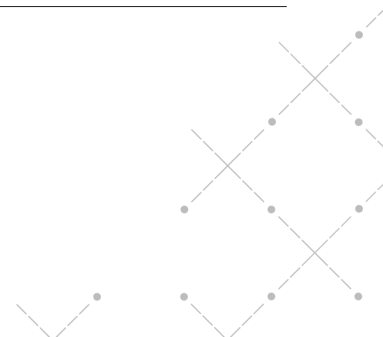
JSM removed a 1.98km section of redundant 400kV oil-filled cable between Walford SEC and joint bay 11/12, using the NICE no-dig method. Only 2.6% of the route required open-cut excavation, limited to joint bays and Horizontal Directional Drilling (HDD) launch/receive pits. Existing joint bays were reused. Tasks included site setup, service detection, cable earthing, oil drainage, cable spiking/cutting, HDD rig setup, cable recovery, and backfilling with bentonite slurry.

### Post-construction

Recovered cables were sealed and transported for recycling. Launch and receive pits were backfilled and compacted. All fencing was removed, and the site was restored to its original condition.

- Cable removal
- 400kV
- HDD
- Joint bays
- Backfilling

- Civils
- Oil drainage
- Cutting
- Recycling
- Environmental



# PROJECT CHALLENGES

## CHALLENGE



### **SSSI Site Near Wye River**

Work was carried out in a protected Site of Special Scientific Interest.

### **Woodland Coppice with Breeding Wildfowl**

Presence of sensitive wildlife in the area.

### **Buried Third-Party Services**

Risk of damaging underground utilities.

## SOLUTION



Used HDD methods and existing joint bays to avoid environmental impact.

Careful planning and limited excavation preserved habitats.

Used CAT scanning and service drawings to locate and avoid services.

