

LONDON POWER TUNNELS (LPT1) CABLE DECOMMISSIONING WORKS St John's Wood - Tottenham FF Cables

Client

National Grid Electricity Transmission

Project & LocationLondon Power Tunnels 1 (LPT1)
Cable Decommissioning Works**Duration**

Mobilisation: October 2019

Start: October 2020

Completion: April 2022

Infrastructure Requirement

Asset Removal & Decommissioning

Scope of Works

- TWD, civils & reinstatement
- Removal of 275kV fluid filled cables & ancillary equipment
- Dismantle & disposal of cable management infrastructure
- Demolition of cooling stations

PROJECT OVERVIEW

OCU Group (incorporating O'Connor Utilities and Instalcom Limited) has been awarded a high profile contract to decommission existing cables that form part of the London Power Tunnels 1 (LPT1) cable network. The scope of works includes 3 routes of 275kV fluid filled cable systems and associated infrastructure with a total route length of approx 44km. The decommissioning scheme runs through densely urban areas of London, predominantly under highways, a canal towpath (c.8km), few parkland areas and multiple third party land. The cable routes to be decommissioned are:-

Circuit	Description	Route Length
St John's Wood - Tottenham (SJOW-TOTT)	Double Circuit	16km

The purpose of the decommissioning scheme is to remove the cables from the system as they form a significant part of National Grid's NOM's cable target and therefore need to be removed within the RIIO-T1 Period.

DELIVERY & INNOVATION

- OCU appointed as Principal Contractor
- OCU developed project Design Intent Document (DiD), Design Packs for decommissioning of fluid filled assets and ancillaries, together with profile specific residual oil monitoring system upon any cables which remain in situ.
- OCU innovative methodology for removal of cables from cable tunnels which run for approximately 1.8km in North London, crossing the Northern Line in two locations.
- OCU decommissioned 4no. Mesh Corner arrangements and associated Substation Control Systems at Tottenham 275kV and St John's Woods 275kV Substations
- OCU adopted a collaborative approach in working with National Grid, utilising an integrated delivery team ethos from Project Mobilisation.
- OCU implemented safety behavioural programme initiative 'Mindset', which in turn resulted in zero accidents, incidents or lost time incidents.

KEY CHALLENGES

- Programme & outage dates
- Interface with multiple stakeholders including:-
 - Local Authorities
 - Network Rail
 - UK Power Networks
 - Other Utility Providers
 - Private Landowners
 - Local Residents & Businesses
 - Emergency Services
 - Schools, Colleges & Universities
- Safe handling & disposal of fluid filled cables & associated equipment



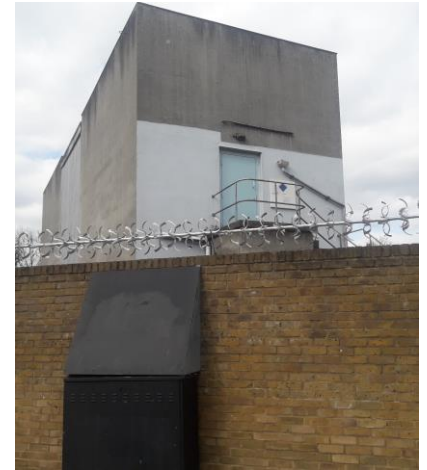
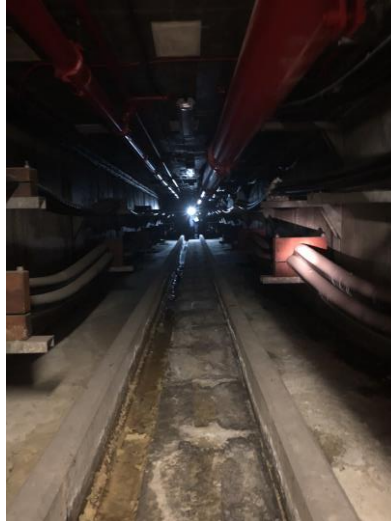
LONDON POWER TUNNELS 1 (LPT1)

O'Connor Utilities Ltd
Instalcom Ltd

- OCU engaged specialist Supply Chain partner for support in the removal and processing of Chromium that is present within cooling water on SJOW-TOTT. This is a first in the UK on decommissioning this product from in-situ pipework.

PROJECT KPIs

- Achieve 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 that results in positive interactions and outcomes
- To exceed Customer Care expectations
- Execute the works leading to positive brand promotion of National Grid
- Implement common protocols to enhance OCU / National Grid relationship



CONTACT US

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

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