Case Study | Wood Lane

"Not only did Clancy excel in the delivery of this scheme but the professionalism demonstrated in their wider stakeholder management was second the none and facilitated a smooth delivery. This project is a flagship for UKPN and those involved should be proud to have contributed. Thanks for all your effort on this project and bring on the next!!!"

Tom Parmiter, UKPN Contract Manager

Background

Under the ED1SON Capital Delivery Alliance for UK Power Networks (UKPN), Clancy was tasked as Principal Contractor to construct a new purpose-built substation to provide Imperial College London (ICL) with 3.5MVA of capacity for a new development in the area, which included apartment blocks, offices and laboratories. The substation was constructed below the A40 flyover in between the North and South exit lanes of the A40, so required meticulous planning to prevent any disturbance to the busy road above.

Solution

Due to the location of the substation, only single-story buildings could be constructed. Therefore, to keep to this requirement and avoid the flyovers' support foundations and columns, two buildings were designed. One building accommodated a switch house with cable basement, containing a 29-way 11kv switch panel, and the other housed two 33.3MVA 132/11kv transformers and associated cooling systems and auxiliary transformers. This was supplied with two 132kv circuits from Willesden Grid, through a mixture of existing tunnel and 1.5km of newly installed duct routes along the A219.

Benefit

The project was a huge success for all stakeholders. The local network supply was reinforced to serve vitally important buildings for ICL and Hammersmith Hospital, as well as future local developments that include the large St James development of 1800 residential homes and associated businesses.

Clancy also benefitted UKPN; we used value engineering during pre-construction in the design of a bespoke temporary works for ground works that negated the need to sheet pile the basement excavation, saving our client over £0.5m.

£0.5M
SAVINGS TO CLIENT

X2
NEW 132kV SWITCH BAYS

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