

Scheme: New Substation Package Installation Location: Exeter Client: Met Office Completed: May 2024

# CASE STUDY: MET OFFICE



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Our task was to supply and install a refurbished HV 11kV Alstom circuit-breaker to integrate with the Met Office's existing board after substantial modifications into the existing switch panels. Further modifications were needed to the panel wiring to meet the client's existing standards on site; with help from RJ Power Engineering Manager Alan Ager, HV Jointer Fitter Matt Moore, SAP Jack Down and Project Manager Ian Shipsides, all went well.

The next phase was to start the civils aspect to get the HV cable across the site to the proposed location for the new sub package. We had several challenges along the way: due to the ecological nature of the site, we had to work closely with the client to adhere to restricted location; the route was across several very busy pedestrian and vehicles routes, with very limited space to work in. With both NWH and OOH works required, the team worked closely with the client to ensure site restraints were adhered to.

The new substation location was in a very sensitive position, with several protected wildlife habitats and wildflowers close by. All civils were completed as per programme, ready for the sub delivery the next day.

The new package substation arrived in line with the programmed dates requested by the client. The cable had been installed and was awaiting termination, which was completed swiftly by Matt and Ian.

The following day, the GRP sub enclosure was lifted into place and secured.

The new substation was finally tested and commissioned before being handed over to the client.





## 🤣 CHALLENGES

#### Issues

The main challenge was ensuring safety at what was an incredibly busy location, in a natural environment with limited workspace. Modifications were needed to integrate the new switchgear with the existing switchgear; this meant employing several contractors from different trades including operational, safety and security clearance. The client's initial planned programme had to be changed at several points during the project.

#### Solution

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We maintained a good working relationship with the client, and ensured our own SSOW was adhered to throughout the project. Any unsafe working practices were swiftly dealt with, with relevant toolbox talks delivered. RJ Power engineers had the knowledge and experience to overcome any challenges that arose during the CB installation. The team had an effective programme in place, and good communication with the client meant any pinch points were resolved without huge impact. RJ Power managed the programme to meet the client's changes with commitment and determination.

The CBRE project delivery team were thrilled with how things went throughout the project and have since requested investigative works to be carried out on the protection relays in another area onsite.



I am very satisfied with the work carried out by RJ Power on our recent transformer project. The staff involved were knowledgeable and courteous, accommodating the client's strict operational requirements with patience and professionalism. I am looking forward to working with RJ Power again on future projects. **J** - CBRE Project Manager Stewart Collis







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