

Supporting the Construction of Hong Kong's Central Kowloon Route

Customer

Bouygues Travaux Publics

Location

Central Kowloon, Hong Kong

Background

The Central Kowloon Route (CKR) project is a 4.7km, dual 3-lane trunk road linking the Yau Ma Tei interchange in West Kowloon with the road network servicing the Kai Tak development and Kowloon Bay in East Kowloon. Upon completion, the CKR project will form a trunk route through the heart of Kowloon, providing an alternate express route to relieve traffic congestion on the major east-west corridors.

Contracted by Bouygues Travaux Publics, an international construction group with a strong presence in the Hong Kong region, Ampcontrol provided comprehensive HV and LV electrical distribution works to ensure stable and safe power supply to three separate sites.

Achievements

Key HV and LV electrical distribution works successfully delivered by Ampcontrol included:

- Installation of a new Ring Main Unit (RMU) in place of the previous unit. This RMU provides a more environmentally conscious solution due to its utilisation of green insulation air.
- Installation of a triangular dry-type transformer. This provided a more flexible solution than a standard rectangular transformer given it is smaller in size and provides superior insulation resistance.
- Factory Acceptance Testing (FAT) was undertaken on the refurbished substation at our Hong Kong workshop in Tin Shui Wai, ensuring the safety and efficiency of the equipment.

The Result

Successful delivery of the extensive HV and LV electrical distribution works expands Ampcontrol's footprint within the CKR project. Ampcontrol has provided three Vacuum Circuit Breaker (VCB) panels, one 2MVA surface substation and one 1.25MVA tunnelling substation which are now in service on site. Ampcontrol have been contracted to provide a further 10 substations for service within the Central Kowloon Route project, for which work will continue into the foreseeable future.

Services Provided:

Utilising a mixture of both new and refurbished equipment to successfully complete this project, Ampcontrol provided:

- 12 substations
- HV switchgear (VCB)
- 10km of HV and LV cable
- HV testing and commissioning
- Service support



↑ Final works are conducted on an enclosure ahead of on-site installation