16kV GIP Reconfiguration

Project: Benmore 16kV GIP Reconfiguration
Client: Meridian Energy
Location: Benmore Power Station

DESCRIPTION

The project scope was to reconfigure the 16kV system so that Unit 6 could be connected to Transpower's 220kV bus in Switchyard A at the Benmore Power Station

SCOPE

This was accomplished through the installation of a three winding 225mVA transformer, which had it's LV terminals directly connected to the IPB from Generator 6. The HV terminals were connected to the 220kV bus via the overhead transmission line and CB in switchyard A.

Electrix installed, assembled, tested and commissioned the new 225mVA transformer.

Eighteen 800mm2 XLPE AI cables in a trefoil configuration between the transformer and generator were installed.

Electrix teams also erected 220kV towers and strung new conductors in spans as an integral part of this project. The multi disciplined nature of our business enabled a 'One stop shop" approach for our customer with lines and technical staff being able to deliver the total package.

Subcontractors were engaged to erect a 9 metre high fire wall between the Meridian and Transpower plant.

Electrix technicians installed protection relays and tested and commissioned the final works.

VALUE TO CLIENT

The project was completed on time, within budget and to the customer's satisfaction.