







Vector Tunnel, Auckland

Client

Client - Vector Energy.

Project

The Vector Tunnel project involved the construction of a 9.2 km long tunnel in Auckland. The tunnel is 3 m in diameter and runs at a depth of 20 m to 100 m below ground level, and almost entirely below sea level.

Services provided

- Project management
- Concept design
- Geotechnical investigations
- Assessment of environmental effects
- Resource consents
- Land owner negotiations
- Detailed civil design
- Building consents
- Tendering
- Construction supervision
- Engineer to the contract.



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ENVIRONMENTAL AND ENGINEERING CONSULTANTS

North Auckland and Northland grid upgrade project



Underground cabling factsheet Albany to Hobson Street

Who is Transpower

Transpower is the owner and operator of the National Grid – the high voltage transmission network made up of lines and substations connecting areas of generation with towns and cities across New Zealand.



Project overview

We are installing a new 220 kV underground transmission cable link, which will run from Pakuranga to Albany, connecting through Penrose substation and new substations to be built at Hobson Street and Wairau Road. The underground cabling will run primarily underneath roads and within designated transmission corridors.

As part of the project, an existing overhead transmission line running between Pakuranga and Penrose substations will be decommissioned and removed.

We are targeting late 2013 for commissioning this new and important part of the region's electricity infrastructure.

Why is this project important for Auckland and Northland?

At present, North Auckland and Northland are heavily reliant upon a single high capacity transmission line between Otahuhu and Henderson for their power. This \$415 million project will provide greater transmission capacity, reinforce electricity supply across the wider Auckland region and into Northland to help meet the increasing energy demands in these areas.