DEGNAN

MINTO, INGLEBURN AND GUILDFORD SUBSTATIONS & POWER SUPPLY UPGRADE

Degnan delivered three traction substations at Minto, Ingleburn and Guildford as part of the Rail Network Power Supply Upgrade, supporting increased power supply capacity across the network.







SECTOR
Energy

LOCATION
Sydney, NSW

CLIENT
Downer / TfNSW

PROJECT COMPLETION
September 2017

PROJECT VALUE
$10M approx.

DELIVERY MODEL
Construct

Engaged by Downer, Degnan delivered the civil, structural and building works across three sites, including bored concrete piles, floor structures, structural steel, façades, ventilation, oil containment and stormwater systems, retaining walls and security infrastructure.

Construction was undertaken within live rail environments, requiring careful planning and coordination with HV contractors and Sydney Trains to safely manage interfaces and operational requirements.

KEY OUTCOMES

- Three new traction substations successfully delivered in Minto, Ingleburn and Guildford.
- Civil, structural and building works coordinated across multiple sites as part of the broader Power Supply Upgrade.
- New infrastructure delivered within live operational rail environments.
- Close coordination with HV contractors and Sydney Trains supported integration with the wider power supply works

CHALLENGES OVERCOME

- **Delivering across three operational sites.** Requiring consistent planning and delivery across multiple locations.
- **Working within live rail environments.** The high-risk nature of construction within operational rail corridors required careful staging, access planning and coordination to safely progress the works.
- **Managing complex interfaces.** Close coordination with HV contractors and Sydney Trains was required to manage interfaces between Degnan's construction scope and the electrical and operational requirements of the new traction substations.