

# METRO TRAINS LEVEL CROSSING REMOVAL PROJECT CAULFIELD TO DANDENONG RAIL UPGRADE



>22,000  
hours  
LTI free

The \$1.6b Victorian Government project was awarded to an alliance including Lendlease, CPB Contractors, WSP Parsons Brinckerhoff, Aurecon and Metro Trains Melbourne. The project involved the removal of nine level crossings between Caulfield and Dandenong to enhance rail network capacity and reliability.

**Client:** CPB Lend Lease Joint Venture

**Year:** May 2018 - Ongoing

**Product/Service:**  
Electrical and Instrumentation

## Scope of Work

EnerMech were awarded the Substation Electrical Works contract via Lendlease and CPB Contractors Joint Venture to Construct, Test, and Commission the 5 Traction Distribution Substations between Flinders Street and Pakenham Station.

The scope included:

- Earth Grid Installation
- Earth Grid Testing and Commissioning
- High Voltage Cable Installations
- High Voltage Cable Terminations
- High Voltage Cable Testing
- High Voltage Transformer Testing
- RMU installation
- Lighting Installation
- Punch listing
- Temporary power

## Project Delivery

EnerMech developed and implement work packs for all electrical sub-systems including Procedures, Inspection and Test Plans (ITP), Inspection and Test Records (ITR), As Builts and Safe Work Method Systems (SWMS).

EnerMech provided and managed a team of specialist install and test engineers and technicians to safely execute the construction and commissioning of traction distribution substations and auxiliary equipment. This included earth grid and electrode installation and testing including low resistance testing, injection testing, step and touch testing and fall of potential testing.

## Key Benefits

EnerMech's highly skilled and competent workforce utilised modern test equipment technology to support the Client in successful and safe delivery of the energisation of five Traction Distribution Substations and Auxiliary Equipment.

All punch-list items closed out prior to handover with zero defects recorded.

Completion, handover and client sign off on all completed substation work-packs, and QA dossiers.

EnerMech delivered a comprehensive asset handover package with strict schedule and program adherence which culminated in the seamless operations handover and technical support to the client team.