

WESTCONNEX M4 EAST TUNNEL PROJECT



WestConnex is a 33-kilometre predominately underground motorway scheme in Sydney, New South Wales, Australia. The \$3.8 billion M4 East is the first underground section of WestConnex and is 6.5km long (with 5.5km of the motorway in tunnel).

Client: CPB Samsung John Holland JV

Year: 2017 to May 2019

Product/Service: Electrical & Instrumentation

Scope of Work

- Level 1 to 6 commissioning and start-up.
- Switchgear and transformer installation and testing.
- Construction and commissioning planning and progress reporting.
- Design review and change recommendations.
- Tunnel and open route electrical system installation.
- Cable Containment systems including crown, sidewall ladder, traverse ladder and cross passage ladder installations.
- HV/MV/LV Electrical Systems commissioning.
- Mechanical and deluge commissioning.
- Communication system installation and testing.
- ITS (Intelligent Transport Systems) Installation. RAG's, ISLUS/TMS signage, moveable median strips and CCTV systems.
- AVIDS (Automatic Vehicle Incident Detection System) camera installation and commissioning.
- Low point sump installation and commissioning.
- Tunnel lighting and emergency lighting installation and commissioning.
- Cross passage equipment installation and commissioning.
- Traffic lights installation and commissioning.
- Boom gates installation and commissioning.
- Procurement and logistics.
- Carry over and punch listing of other contractors work.

Key Benefits Delivered

- Mobilised 250+ Commissioning Electricians and Technicians.
- Integrated team with client and SICE to deliver level 1 to 6 commissioning and start-up.
- Developed and operated the project's Permit to Work system.
- Provided comprehensive cost planning and cost mitigation strategies.

Project Delivery

EnerMech were awarded the contract to provide the management, coordination, administration, supervision and labour of all commissioning activities for the entire mechanical, electrical, communications and controls system and equipment for the project.

EnerMech also provided the Joint Venture detailed commissioning procedures and plans, operating and maintenance procedures for all equipment installed, developed and operated the entire permit to works system including training of all personnel required to safely deliver the WestConnex project.

**Total
Invoiced
Value
\$73
million**