

ACCIONA

WESTERN HARBOUR TUNNEL



Project	RW1704 Tunnel Ventilation System - Steelwork and Installation
Location	Sydney, NSW
SIMPEC Scope	Structural & Mechanical
Value	\$8.5 million
Duration	9 months
Completion	Q4 2026

Project Overview

The Western Harbour Tunnel (WHT) is a major transport infrastructure project being delivered in Sydney, providing a new road crossing beneath Sydney Harbour and improving connectivity between Sydney's northern and western transport corridors. SIMPEC has been engaged to deliver the RW-1704 Mechanical package, providing specialist mechanical installation services to support completion of critical tunnel infrastructure systems. The works form part of the tunnel's operational readiness and commissioning program, ensuring key mechanical systems are installed, tested and prepared for safe operation.

Client Overview

ACCIONA is a global leader in sustainable infrastructure and renewable energy development, delivering major engineering, construction and infrastructure projects across transport, energy, water and social infrastructure sectors worldwide.

ACCIONA is leading delivery Stage 2 WHT project, one of Australia's largest transport infrastructure contracts, valued at approximately \$4.24 billion, reinforcing its position as a trusted partner in the delivery of complex, large-scale infrastructure projects that create long-term community and economic benefits.

Scope of Work

SIMPEC's scope includes the provision of project management, supervision, skilled labour, fabrication, plant and equipment required to execute the RW-1704 Mechanical works within the tunnel ventilation facilities and associated infrastructure.

- 10 × Axial Ventilation Fans (10.5 tonnes each)
- 17 × Isolation Dampers
- 10 × ATMOS Attenuators
- 10 × Tunnel-Side Attenuators
- 2 × Acoustic Doors

Fabrication & Steelwork Installation

- Installation of fabricated steelwork and support structures
- Fabrication and installation of 10 × Transition Ducts, including support frames
- Fabrication and installation of 10 × Axial Fan Support Frames
- Fabrication and installation of 26 × Manual Sampling Ports
- Installation of associated mechanical supports and ancillary components

Project Delivery Services

- Project management, supervision and site coordination
- Equipment setting out, alignment and installation
- Quality assurance, inspection and test documentation
- Interface coordination with client, subcontractors and stakeholders
- Defect rectification and commissioning support

Handover documentation and close-out activities

Key Facts

One of Australia's largest transport infrastructure projects, creating Sydney's third road harbour crossing and improving connectivity between the Warringah Freeway, North Sydney and WestConnex.