



CASE STUDY

M5 EAST FREEWAY, SYDNEY

The M5 East motorway in Sydney's south-west opened in 2001 and remains one of the most complex pieces of motorway infrastructure in Australia. Egis was a key member of the winning consortium that was selected for the design, construction, operation and maintenance of the road for 10 years. Egis provided the operation and maintenance (O&M) plan together with O&M input into design development. The motorway includes two tunnels, one of which is currently the longest road tunnel in Australia.

Egis now provides through its Bhegis Joint Venture with a leading Australian construction partner, operation and maintenance of the road – which comprises the busiest two-lane tunnel in Australia.

The M5 East is owned by the Roads and Traffic Authority of New South Wales (RTA). Egis works in close cooperation with the RTA and its local operating partner. The motorway provides an effective transport solution for commuters, local road users and heavy vehicle traffic feeding Sydney's growing south-west corridor.

EGIS' ROLES INCLUDED:

- operations and maintenance aspects of design development
- bid partner for operations and maintenance
- civil and mechanical design review (through Egis Consulting Australia)

M5 EAST FREEWAY FACTS:

The M5 East Freeway is part of the Sydney orbital road network. It links the M5 Motorway at Beverly Hills in the south to General Holmes Drive near Sydney Airport in the north. The road is government owned and there is no toll.

The freeway is approximately 11 kilometres in length and includes two twin two lane tunnels, one 4km in length, the longest road tunnel in Australia and the other is 550m in length and passes under the Cook's River and environmentally sensitive wetlands.

The M5 East has a number of high-technology features, including:

- emergency passages and barriers
- deluge sprays and fire extinguishers
- road-mounted sensors
- intelligent lighting which automatically adjust to suit driving conditions
- ventilation systems which automatically adjust to suit traffic conditions

The total project cost was approximately \$737 million.

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| CONCESSION CLIENT | – Roads and Traffic Authority (NSW) |
| O&M JOINT VENTURE COMPANY | – BHEgis |
| FINANCING | – NSW Government financed |
| SCHEDULE | – Construction completion: May 2002 – O&M contract: 10 years |