

Water

At DT Infrastructure our teams are successfully delivering water infrastructure projects that are keeping pace with Australia's population growth and replacement of aging assets.

We are experienced in delivering innovative water infrastructure solutions on major and minor projects across Australia.

Delivering Water Infrastructure Solutions

DTI bring major project and program delivery expertise from the water and other infrastructure sectors to deliver first class service for our clients.

We design and construct linear infrastructure solutions, support the delivery of water and wastewater treatment plants, and network infrastructure including reservoirs and pump stations.

Our clients benefit from the wealth of experience and technical expertise we leverage from our parent company Gamuda Berhad, who have over 45 years' experience delivering major water infrastructure projects across the globe. This, along with the skills and

knowledge from our partner companies, such as Tunnelling Solutions, ensure we bring a holistic approach to deliver forward thinking solutions for our clients.

Range of services:

- Reservoirs and water storages
- Water treatment and disinfection
- Water trunk mains
- Water reticulation
- Wastewater treatment and recycling
- Sewer and rising mains
- Pumped transfer systems
- SCADA and PLC
- Digital engineering
- Trenchless pipeline installation.



Denny Ave Mains Relocation Project

DT Infrastructure delivered the relocation of 900 lineal metres of a 100-year-old Water Corporation water main from the western side of Albany Highway to the eastern side. This was integral in facilitating upgrades to the Albany Highway for the Denny Avenue Level Crossing Removal Project.

As part of the larger project delivered by DTI, the relocation of the water main had to successfully navigate through multiple moving parts, constraints and challenges. The team oversaw construction during the height of Covid-19 and were responsible for managing existing services, working next to and across live roads, difficult shoring techniques, landowner engagement, driveway and verge construction and reinstatement.

DT Infrastructure's collaborative and innovative approach led to a successful project where key milestones were met ahead of schedule.



Chichester Pipeline Project

The Chichester Trunk Gravity Main (CTGM) is an 85km pipeline that conveys water from Chichester Dam to water supply systems in the Lower Hunter, as well as a number of townships and small supply systems adjacent to the pipeline.

The 8km section, constructed in 1923, consists of DN900 lead-jointed locking bar pipe. Deterioration poses risks of catastrophic failure, customer disruption during peak demands, WHS concerns, and environmental risks due to lead joints.

Scope works included:

- Installing of 7.5km a DN1200 MSCL pipe
- Demolishing the existing DN900 pipeline
- Undertaking civil works for land formation
- Environmental approvals and AHIP requirements
- Careful Groundwater Management
- Management and protection of environmentally sensitive areas (heritage sites and wetlands)



Leveraging our Global Expertise

With the backing of Gamuda Berhad, our team have the skills and experience to deliver large scale water infrastructure projects that provide safe and reliable water supply for communities.

Hydroelectric and Dam Expertise

With a proven track record in designing and constructing dams and water treatment plants, Gamuda was able to secure joint venture (JV) to develop the \$1.3B Ulu Padas Hydroelectric Dam, currently under development in Sabah, Malaysia.

The development of large-scale water projects such as these are significant in providing a reliable renewable energy source. With a capacity of 187.5 megawatts, this hydroelectric dam will substantially contribute to Sabah's power supply grid.

Major Water Supply and Maintenance Expertise

Sungai Selangor Water Supply Scheme 3 (SSP3) is a pivotal water infrastructure project to address increasing demand and ensuring sustainability. Aimed at addressing water scarcity challenges, SSP3 leverages cutting-edge technology and extensive infrastructure to provide a sustainable and reliable freshwater source for the region. Gamuda is responsible for the design, construction, completion, commissioning, and the operation and maintenance. Key features of the project include state-of-the-art water treatment plants equipped with cutting-edge filtration and purification systems to meet the stringent quality standards.

Key scope:

- Design and construction of a 110-metre-high clay core rock-filled regulating dam, with storage capacity of 235 million cubic meters
- Construct large diameter pipes, 59.2 km in length
- Two water treatment plants with total capacity of 1,050 MLD
- 375 m-long diversion tunnel of 7m diameter River intake works

