

Water engineering

Arup understands the commercial, economic, social and environmental issues that influence water management and the fact that business and consumers today are faced with the key challenges of access to fresh water and the adequate sanitation of it.

The current and future management and successful treatment of this precious commodity is vital in ensuring delivery of secure water supplies to communities in the long term.

Arup's breadth of knowledge is coordinated in a holistic approach to deliver solutions that meet clients' objectives.

With local and international experience, Arup designs and delivers water management projects, from strategic planning and engineering design, to construction and operational support.

Specialist staff seek to understand clients' needs, then create innovative solutions using technical excellence and creativity.

Arup's technical specialisations include:

- conventional water and wastewater treatment and reuse
- hydraulic modelling
- surge analysis
- lined and covered storage design
- desalination water treatment
- industrial water and wastewater treatment and reuse
- environmental auditing and management
- pipeline design
- water sensitive urban design
- sustainability and risk assessment
- civil and structural design for water infrastructure

Our skills in water management are complemented by an extensive network of services including geotechnical and materials engineering, project management and sustainability.



Broken Hill desalination plant, NSW

Arup delivered an emergency desalination plant to protect the community against severe drought.



Wastewater management strategy, Australian Barley Board, WA

A wastewater management strategy was delivered that reduced the company's overall operating costs.



Sanctuary Lakes, Vic

Water sensitive urban design is maximising environmental appeal and the credentials of this residential resort in Victoria.