INTEGRATED WATER MANAGEMENT
The sustainable management of water is one of the key challenges facing our society today. Challenges in water management arise from a range of issues associated with supply constraints and increased demand driven by the dynamic urban and rural environments in which we live. GHD's team of engineers, scientists and ecologists applies a holistic approach to the way water, sewage and stormwater infrastructure is supplied to urban communities, delivering services more economically, and with a smaller ecological footprint.

As a key decision-maker responsible for the sustainable and secure management of such a valuable resource, we take an informed and holistic approach to finding the best pathway forward. Integrated Water Management (IWM) is a strategy that draws together all facets of the water cycle, including water supply, sewage and stormwater management to achieve strong social, environmental and economic outcomes.

GHD has over 80 years experience in the management and delivery of water services to the community, and understand the interrelatedness of all the elements of the water cycle. We offer solutions to address every element of the water cycle, including:
- Harvesting
- Storage
- Water treatment
- Water distribution
- Sewage collection and treatment
- Water recycling and environmental flows
- Community engagement and management
- Business and government strategic advisory on integrated water management

OUR APPROACH

With over 60 service lines, GHD is uniquely positioned to add value to your IWM strategy beyond traditional water balance considerations. We offer integrated teams to deliver schemes that embrace:
- Superior energy efficiency
- Low embedded energy materials
- Liveable community environments
- Smarter use of transport infrastructure
- Vistas in harmony with the surrounding environment

Our specialists combine strategy, planning, environment, community and design and construction capabilities to deliver IWM services to clients. We offer feasible solutions that encapsulate social, environmental and economic values. GHD's IWM project teams work with clients to:
- Deliver value-added solutions that exceed required performance and environmental objectives
- Prepare technically supportable investigation
- Deliver practical solutions and designs that minimise operational and construction risks
Apply latest proven technology when appropriate
Proactively communicate to keep you fully informed on all aspects of your important project

OUR PROJECTS
Our reputation for quality work, and benefits we deliver to clients, drive our continued pioneering work in IWM. Some examples of IWM projects delivered by GHD include:

- Pimpama-Coomera Waterfuture Master Plan, QLD
- Australian Water Industry Roadmap
- Sydney Water Growth Planning for western Sydney, NSW
- Sydney Olympic Village water cycle infrastructure, NSW
- Rouse Hill reuse reticulation system, NSW
- Manly Ecological Sustainable Village, NSW
- Wide Bay water recycling scheme, QLD
- Magnetic Island water reclamation scheme, QLD
- City of Whitehorse Water Action Plan, VIC
- Anglican Retirement Village, NSW
- Brookedale Masterplan, WA
- Riverside Integrated Urban Water Management Strategy, WA
- Civic Place Integrated Water Cycle Management, NSW
- Design Standards for non-potable water, WA

- Hunter Street Development Water Cycle Management Plan, NSW
- Rainwater Harvesting Options for Murrays Flat Development, NSW
- Recycled Water Demonstration Plant, QLD
- Sewer Mining Study, NSW
- Review of Queensland Water Recycling Strategy, QLD

PIMPAMA-COOMERA WATERFUTURE MASTER PLAN
Pimpama-Coomera is the next major urban corridor on the Gold Coast in Queensland, Australia, growing from a population of 5,000 to 150,000 in 50 years. The Pimpama-Coomera Waterfuture is a strategy to provide a secure water supply to the region whilst delivering social, environmental and economic benefits to the community and local government.

The Pimpama-Coomera Waterfuture Master Plan, a part of the overarching strategy, was developed in 18 months through a stakeholder advisory committee with GHD as the principal technical consultant responsible for overall concept development, water balance, sewage treatment concept design and economic, greenhouse and externality analysis.
AUSTRALIAN WATER INDUSTRY ROADMAP

The Australian Water Industry Roadmap was a collaborative effort involving key partners from industry, government and community groups to develop a set of actions to maximise returns on investment in terms of both excellence in the sustainable management of water and industry competitiveness.

GHD coordinated and managed the overall implementation of the project, and provided specialists to oversee and review inputs. The action plan developed 12 recommendations to guide the Australian water industry forward.

SYDNEY WATER GROWTH PLANNING FOR WESTERN SYDNEY

Sydney Water is undertaking growth planning in consultation with key agency stakeholders to develop a sustainable water servicing strategy for western Sydney, which is expected to experience significant growth over the next 30 years. GHD was commissioned to provide professional advice and undertake a series of specialist studies to evaluate alternative IWM servicing options, including review of suitable sewerage system technologies, sewage management options, water sensitive urban design, rainwater harvesting, recycled water, household and regional water balance and Triple Bottom Line analysis.

CONTACTS

GHD’s IWM leaders can be contacted through our offices in Adelaide, Brisbane, Melbourne, Perth, Sydney, Santiago (Chile), Manukau (NZ) and Dubai (UAE). Please visit www.ghd.com.au for details.

ABOUT GHD

GHD is an international professional services company. Our people deliver innovative solutions by combining technical skill and experience with an understanding of our clients’ objectives and aspirations.

With more than 6000 people in a network of 100-plus offices throughout Australia, New Zealand, Asia, the Middle East, the Americas and Europe, we serve clients in the global market sectors of infrastructure, mining and industry, defence, property and buildings and the environment.

Central to our clients’ prosperity and GHD’s success are forward-thinking engineers, architects, planners, scientists, drafters, project managers, economists and supporting staff. Our people embrace the core values that have sustained the company since inception – Teamwork, Respect and Integrity.

Established in 1928, GHD is ranked as one of the world’s leading engineering, architecture and consultancy firms. We are dedicated to our clients and their stakeholders, to being a responsible corporate citizen and to improving the quality of life around the world.

We contribute to the goals of sustainable development and are committed to managing the social, economic and environmental impacts of our operations and assisting our clients to manage theirs in the provision of our technical consulting services. We recognise innovation as the key to realising this objective.

As a member of the World Business Council for Sustainable Development (WBCSD), GHD actively participates in the public debate on the role business has to play in managing climate change, energy, development and ecosystems.

GHD operates under a Practice Quality Management System that is certified to AS/NZS ISO 9001:2000 and our Environmental Management System (EMS) is accredited to international standard ISO 14001 by NATA Certification Services International (NCSI).

For more information, visit www.ghd.com.au