



CLIENTS | PEOPLE | PERFORMANCE

SUSTAINABILITY



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.

THE NEED FOR SUSTAINABILITY SERVICES

GHD defines sustainability as improving human well-being without compromising the local or global environment over the long term. In the business context, we see sustainable development as managing social and environment issues in a holistic manner that enhances long-term shareholder value. GHD's sustainability services are designed to help clients understand, measure and improve the sustainability performance of their businesses. We encourage clients to develop sustainability frameworks, embed sustainability initiatives in projects and processes, and monitor and improve sustainability performance.

The need for these services is greater than ever before in a world dominated by threats to intergenerational equity arising from climate change, biodiversity loss, pollution, and resource shortages. Moreover, according to the World Business Council for Sustainable Development (of which GHD is a member), sustainable development can make firms more competitive, more resilient to shocks, nimbler in a fast-changing world, more unified in purpose, more likely to attract and hold customers and the best employees, and more at ease with regulators, banks, insurers and financial markets.

FOCUS AREAS

RESOURCE AND INDUSTRIAL PROJECTS

Sustainability considerations are increasingly driving industries including minerals and mining, oil and gas, manufacturing, and agriculture and food production. Leading companies in these sectors are very mindful of corporate social responsibility, and seek to engage stakeholders in the delivery of sustainable production that delivers positive social outcomes. GHD works closely with

these clients to develop solutions that protect biodiversity, increase efficiency of energy and water use, encourage responsible waste management and reduce greenhouse gas emissions.

URBAN DEVELOPMENT

Urban development projects can be designed to increase energy and water use efficiency, provide integrated transport solutions and minimize environmental impacts. GHD assists regional planners, urban developers and building owners on sustainable urban development projects, pioneering regional planning strategies and green building designs. In fact, GHD has developed a concept for one of Australia's most energy efficient developments, appropriately called Zero because it has zero net annual external power consumption.

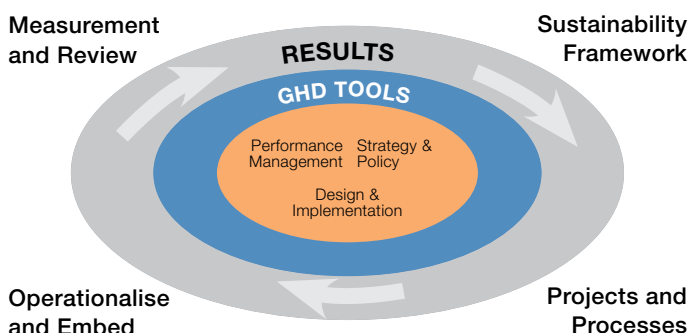
INFRASTRUCTURE PROJECTS

Sustainable development creates new challenges – and opportunities – for infrastructure providers. Traditional modes of water, energy, communications and transport infrastructure delivery need to evolve in light of factors including climate change, shifting urban and regional growth patterns, changing demographics and community expectations. GHD partners with our clients to develop infrastructure solutions that meet these needs while protecting human and ecosystem health. Initiatives include innovative water cycle management, production of cleaner energy and delivery of sustainable communications and mobility solutions.

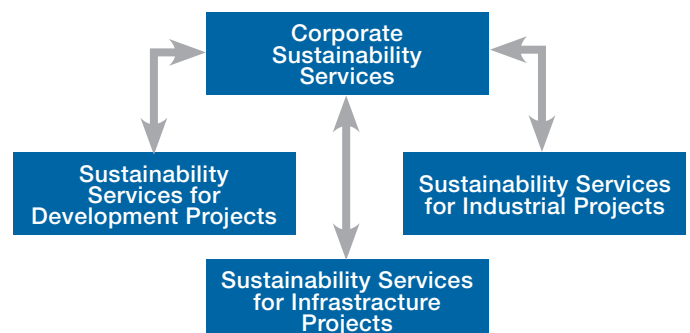
SUSTAINABILITY CONSULTING SERVICES

GHD's sustainability services are complemented by a broad range of in-house professional services. Our capabilities are boosted by our international network of offices, ensuring we remain abreast of sustainability initiatives from around the world. We guide clients through a practical and comprehensive process resulting in the implementation of sustainability initiatives in a manner that supports continual business improvement and efficiency.

GHD approach to sustainability engagements



GHD Sustainability Focus Areas





This process involves the assimilation of sustainability objectives into high-level business strategy, and the embedding of these objectives into policies, programs and projects. GHD provides a wide range of strategic and technical solutions that are tailored to business needs.

CORPORATE ADVISORY SERVICES

GHD helps clients understand global sustainability issues and the role that business can play in sustainable development at a local and global level. This knowledge enables clients to develop performance frameworks that manage impacts, support informed decision-making and reporting, and drive sustainable development outcomes. Our corporate advisory services help clients to:

- ▶ Understand the sustainability impacts of their business activities
- ▶ Identify potential changes arising from the sustainability drivers in the markets in which they operate
- ▶ Identify key stakeholders, and develop stakeholder engagement strategies
- ▶ Align the organisation's long-term strategic direction towards sustainable development
- ▶ Capitalise on new opportunities
- ▶ Develop and implement leading sustainability reporting strategies

SUSTAINABILITY ASSESSMENTS

GHD's sustainability assessment methodology utilises a consultative process to enhance transparency of economic, social and environmental impacts of proposed plans, programs or projects. Such assessments can then be used to identify ways of improving sustainability performance. GHD's methodology supports informed decision-making, and

can be applied at planning, design and operational levels. It encompasses:

- ▶ Development of sustainability frameworks encompassing social, economic and environmental indicators and targets to guide planning and design of programs and projects
- ▶ Analytical methods for evaluation of the sustainability performance of different planning and design options
- ▶ Techniques for refinement of the plans, programs and projects to achieve the best net sustainability outcomes

This sustainability assessment methodology can be easily adapted to suit specific program and project needs, providing both flexibility and adherence to an overarching corporate or project sustainability framework. Stakeholder consultation and engagement is key, and can be linked through each stage of the process depending on project complexity.

STAKEHOLDER CONSULTATION

Addressing the expectations of stakeholders such as employees, shareholders, governing bodies, suppliers, consumers and the wider community is an essential aspect of corporate responsibility. Stakeholders expect to be kept informed of business activities, and want to be involved in decisions that affect their interests. Leading organisations identify stakeholders, build understanding of stakeholder drivers, and engage stakeholders at appropriate levels of the decision-making process.

GHD's stakeholder services include consultation, assessments, facilitation, social impact studies, environmental education, communication and change management. Our robust yet flexible approach improves information flows and facilitates understanding and agreement between clients and stakeholders.



CLIMATE CHANGE AND GREENHOUSE GAS MANAGEMENT

GHD is experienced in the provision of comprehensive climate change, energy and greenhouse gas management services. Our strategic and technical services help clients to develop efficient and sustainable business practices. Services include:

- ▶ Climate change business risk evaluation
- ▶ Policy and program advice and evaluation
- ▶ Greenhouse gas inventory, assessment, benchmarking and verification
- ▶ Greenhouse gas management strategies
- ▶ Energy auditing and end user efficiency
- ▶ Process design and engineering
- ▶ Carbon biosequestration, accounting and reporting
- ▶ Climate change adaptation strategies

ECO-EFFICIENCY AND SUSTAINABLE PRODUCTION

Eco-efficiency is a management philosophy that links financial and environmental performance to create more value with less ecological impact. It focuses on business opportunities, allowing companies to become both more environmentally responsible and more profitable.

GHD assists clients in understanding, identifying and implementing eco-efficient practices. Services include:

- ▶ Policy and program advice and evaluation
- ▶ Eco-efficiency and cleaner production
- ▶ Lifecycle assessment and supply chain management
- ▶ Industrial ecology and symbiosis

URBAN DEVELOPMENT AND BUILT ENVIRONMENT

GHD planners, engineers, scientists and architects are at the forefront of creating sustainable urban developments and built environments. We are experienced in a wide range of projects including greenfield, urban infill and construction projects. Our approach integrates architecture and engineering with planning and urban design to achieve positive social outcomes, improved environmental performance and better resource use efficiency. Capabilities include:

- ▶ Sustainable land use planning
- ▶ Integrated transport solutions
- ▶ Integrated water cycle designs (including wastewater recycling)
- ▶ Energy and greenhouse gas management strategies and design of renewable energy solutions
- ▶ Environment and biodiversity plans
- ▶ Waste management and recycling strategies
- ▶ Green building design and modelling (including formal green building certification)

SUSTAINABILITY AT GHD

GHD has embedded a staged approach towards our own carbon neutrality, with a target date of 2010. We are a member of the World Business Council for Sustainable Development, and a strong supporter of the Green Building Council of Australia's green buildings practices.



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



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