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ENVIRONMENTAL MANAGEMENT SYSTEMS



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.

GHD employs over 4,700 people in a network of offices throughout Australia, New Zealand, Asia, the Middle East, the United Kingdom and the Americas. We serve the global market sectors of Infrastructure, Mining & Industry, Defence, Property & Buildings and the Environment.

No matter what industry sector our clients operate within, the fact remains that organisations face increasing pressure to demonstrate sound environmental management practices. The introduction and development of the Environmental Management Systems (EMS) standard, ISO 14001, has had a major impact, not only on the way organisations conduct their business, but on the markets within which they operate, as well as on community and customer expectations.

Beyond compliance, there are other domestic and international business drivers to reduce environmental impacts, and while EMSs have formed part of businesses for many years, the complexity of environmental management issues continues to grow.

ISSUES FACING BUSINESSES

- ▶ Climate change strategies;
- ▶ Sustainability strategies;
- ▶ Maintaining systems through corporate restructure;
- ▶ Market requirements for EMS certification to allow tendering of services and products;

- ▶ Increasing cost of resources;
- ▶ Integration and streamlining of EMS into the larger corporate risk management framework and IT systems;
- ▶ Identifying measurable benefits for business (compliance, marketing, community goodwill); and
- ▶ Maintaining continuous improvement and extending the involvement of all personnel.

At GHD we utilise our EMS professionals and draw on our technical experience across all industry sectors to identify the benefits to your organisation and the issues which must be addressed. Is your EMS assisting your business to address the impact of these issues into the future? Is your EMS achieving environmental legislative compliance? Is your EMS assisting your organisation to reduce resource consumption?

BENEFITS OF AN EMS

- ▶ Reduction in risk of prosecution;
- ▶ Possible reduction in insurance premiums;
- ▶ Maintenance of tendering opportunities or product sales;
- ▶ Environmental issues are addressed before they become a problem;
- ▶ Engendering community engagement;
- ▶ Development of a socially responsible corporate image;
- ▶ Possible reduction in waste and disposal costs; and
- ▶ Improved business and processing efficiency.





KEY FACETS OF GHD'S APPROACH TO EMS DEVELOPMENT

- ▶ Adopting a risk-based approach to make sure the focus of management activities is on the most significant issues;
- ▶ Centering EMS development on performance-orientated, behavioural aspects to drive tangible environmental performance improvements;
- ▶ Building the EMS into existing management systems and processes;
- ▶ Mentoring environmental personnel responsible for the development and maintenance of the EMS; and
- ▶ Providing tailored, ongoing support to organisations during EMS implementation and operation.

OUR SERVICES

We have experience in all stages of EMS development, including initial environmental review/gap analysis; development of registers of aspects, impacts and legal requirements; assisting clients to develop procedures; implementation of the system; and training of staff.

OUR EXPERIENCE

DEPARTMENT OF DEFENCE

GHD has been supporting the development and implementation of the Department of Defence EMS for over five years. We have undertaken EMS development at

several Defence facilities, including RAAF Townsville, the first Defence site to be certified to ISO 14001, and the model on which all other Defence site EMSs have been based.

QATAR PETROLEUM

GHD has been developing an EMS for four Qatar Petroleum (QP) operational areas, including offshore platforms. The objective of the project is to develop and document an ISO 14001-based EMS integrated with QP's existing ISO 9001-based Quality Management System (QMS).

QUEENSLAND PORTS

GHD was commissioned to develop an EMS Guideline Manual based on the successful management system that operates at the Port of Brisbane Corporation. A CD-ROM was also developed, which contains documents and tools to be used in the EMS implementation and maintenance.

SOLID ENERGY (NEW ZEALAND)

A compliance review of the Solid Energy (SENZ) EMS was recently undertaken by GHD, assisting SENZ management to identify potential gaps in the EMS and opportunities for achieving continuous improvement.

SPOTLESS SERVICES AUSTRALIA

GHD has recently been commissioned to develop a Corporate EMS for Spotless, and will assist with implementation at operational sites using Environmental Management Plans (EMPs).



BORAL AUSTRALIAN CONSTRUCTION MATERIALS

GHD is working with the Environmental Management Team of Australian Construction Materials, to develop a Corporate EMS framework to streamline and consolidate environmental management processes across its business, consisting of some 400 sites within Australia.

BEAUDESERT SHIRE COUNCIL

Beauresert Shire Council has initiated the development of an ISO 14001 compliant EMS by completing Stage 1 of the development: Production of Legal Register and Aspects and Impacts Register. GHD has been awarded Stage 2 and 3 of the process, which involves the production of the Environmental Policy Statement, Objectives and Targets, along with identifying where gaps exist in the current system.

PHILIPPINE ASSOCIATED SMELTING AND REFINING CORPORATION (PASAR)

GHD is providing the technical services involved in developing an EMS in conformance with the requirements of ISO 14001:2004, with two main tasks: conducting EMS training for plant personnel; and making sure all necessary requirements for EMS certification are fully implemented.

MAIN ROADS WESTERN AUSTRALIA

GHD was involved in the development, implementation and maintenance of a project EMS for the Karratha to Tom Price Highway on behalf of Main Roads Western Australia and MacMahon Contractors Pty Ltd.

PUBLIC TRANSPORT AUTHORITY OF WESTERN AUSTRALIA

GHD delivered advice to the Public Transport Authority of Western Australia for the integration of an EMS to link the new operating entities of the consolidated organisation.

ALINTA

Construction auditing was undertaken by GHD for the Pinjarra Cogeneration Unit 2 construction contractor on behalf of Alinta, to assess conformance against the requirements of the project EMS and Construction EMP.

GOULBURN MURRAY WATER

GHD developed a Communications Strategy to support the implementation of the redesigned EMS for Goulburn Murray Water. The strategy was developed through a process of consultation, including participatory employee workshops and a series of focused interviews with key stakeholders, thereby maximising internal buy-in and enabling the development of an effective, tailored communications plan.

RIO TINTO

GHD was commissioned by Rio Tinto to develop a Legal Obligations Register (LOR) for Rio Tinto China through GHD's Beijing office. The LOR covers health, safety environment & community obligations in all provinces that Rio Tinto has current or prospective operations.



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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