



# **GHD** Property & Buildings

**“The continued development and regeneration of our communities requires a sophisticated planning, design and growth management approach. We deliver seamless solutions that incorporate planning, architecture, economics and engineering to help you maximize return on investment.”**

**Paul Morris - Market Leader - Property & Buildings, Australia**

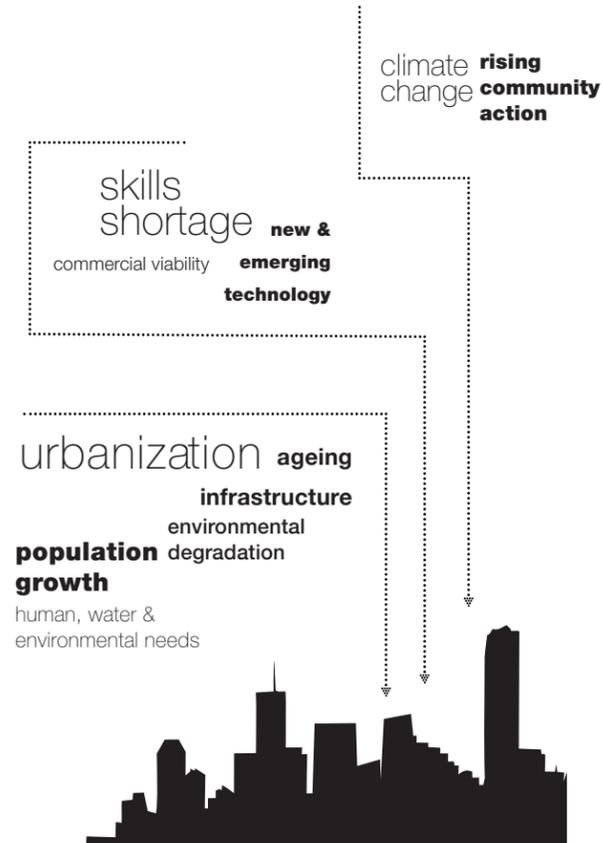


Grand Hyatt Resort

**Our clients seek out robust solutions - those that are visually impressive, economically viable, and environmentally sustainable.**

**Decision-making protocols and complementary design principles must be established early in a project to satisfy the goals of all stakeholders. Through integrated design, GHD has become a respected leader in the built environment.**

**Key industry influences**



**Our approach**

Our attention to cost and risk management generates both design-focused and technically savvy results, delivered on time and on budget. We have a rich history in outstanding design services in the following market segments:

- Defense
- Social infrastructure & indigenous services
- Communities
- Sustainable cities
- Urban development
- Commercial & retail
- Residential & hospitality
- Transport facilities
- Industrial & resource facilities

We aim to create spaces which have a visual signature, generate diverse responses, challenge design parameters, and most importantly, meet the needs of our client and communities alike. Our design philosophy is underpinned by the consideration of human, environmental and economic concerns.

**Services**

Our integrated teams work in a range of market segments and deliver the following service across the entire life cycle of your project:

- Architecture, landscape architecture & interior design
- Civil engineering & land development
- Electro-mechanical engineering
- Structural engineering
- Geotechnical engineering
- Hydraulic & fire engineering
- Environmental & sustainability services
- Project, asset & facility management
- Planning services
- Security
- Integrated Logistics Support
- Urban economics
- Spatial sciences
- Stakeholder engagement

**Why we are different**

With GHD, you become part of a creative and collaborative approach that produces innovative ideas, moving beyond the built form to enhance the true meaning of your space. You will arrive at a focused solution, tailored explicitly to your needs, incorporating

experience and design excellence with community consideration. Our designs incorporate inspiration, flair, enthusiasm and aesthetic function, and we'll communicate with you, face to face, at each stage of the project life cycle. With more than 100 offices across the globe, it's fair to say we have the talent and depth to enable an informed, objective approach to your project challenges - our architects, engineers, planners, economists and environmental scientists will collaborate with intent to make your project a success.

**Integrated Project Delivery (IPD)**

The most advanced players in industry now demand IPD. This uses business structures, practice, and processes to collaboratively draw on the talent and insight of each participant in the design, construction and fabrication process. Mobilized when the project is first conceptualized, the integrated process continues throughout the entire life cycle of the facility.

GHD applies the latest software in Building Information Modelling (BIM) to design, visualize, analyze and document its projects. The application of REVIT Architecture, Structure, MEP and Robot Structural Analysis allows a fully integrated model to capture each element of your project from concept through to completion.

BIM allows us to tell you when things may not work (clash detection) and ensures each of our technical disciplines work together (phasing) to create optimal outcomes. No need to take the term 'BIM' literally - 'Building' may include buildings, structures, bridges, public infrastructure, mining, marine and plant engineering projects. 'Modeling' doesn't mean the most attractive people we can find - it's about a multi-dimensional approach to project growth and development.

**Sustainable development**

Balancing lifestyle with resource efficiency and sustainable performance requires comprehensive planning. The results must be scalable - from specific buildings right through to city-wide solutions. We've established a common set of social and environmental performance objectives for building design. This allows a consistent approach to the design process, integrating architecture and engineering to produce innovative, high performing spaces. We consider performance indicators for all projects, often using those established by the client via LEED®, Green Star, NABERS and/or Estidama rating schemes. Our approach creates productive and healthy environments that are a pleasure to inhabit, simultaneously improving life cycle resource efficiency and maximizing performance.

**Where we've done it well**

**Australia**

The ACT Government-owned National Convention Center, Canberra was originally opened in 1989. It was one of the earliest specialist convention and exhibition facilities constructed in Australia. The inferior state of repair and poor functionality of the center approaching the end of its life cycle was contributing to a declining market share

of major conventions. The project focused on improving marketability though achieving value for money in addressing the sense of arrival and place, venue flexibility, delegate amenity and visitor experience. GHD was appointed architect, engineering and environmental consultant to the ACT Government for the scoping, prioritizing, design, documentation and construction of the facility.

**China**

GHD is collaborating with Shimao Group to create a resort inspired by China's rich heritage and reflecting a new focus on sustainable development. Set in the Dalian region, Shimao Dalian Carnival is a development where forests and mountains meet water, reflecting the area's natural beauty and the cultural heritage of the Chinese jade dragon.

Shimao's ambitious plan requires the enlargement of an artificial island to about 2900 acres and building on reclaimed land. The island is in the shape of the symbolic Chinese dragon, which is associated with strength, success and good fortune.

An additional challenge for the design team was to produce a resort for all seasons, where comfort would not be sacrificed even during Dalian's cold winter. GHD worked on all facets of the design from the concept master plan through to detailed architectural and landscape design plans. While there is a heritage aspect to the design, environmental sustainability is an imperative for Shimao. GHD incorporated solar and wind power as well as an integrated water management system to reduce the resort's carbon footprint.



ANZAC Park West



Canberra Convention Centre



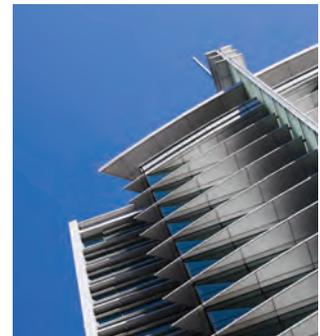
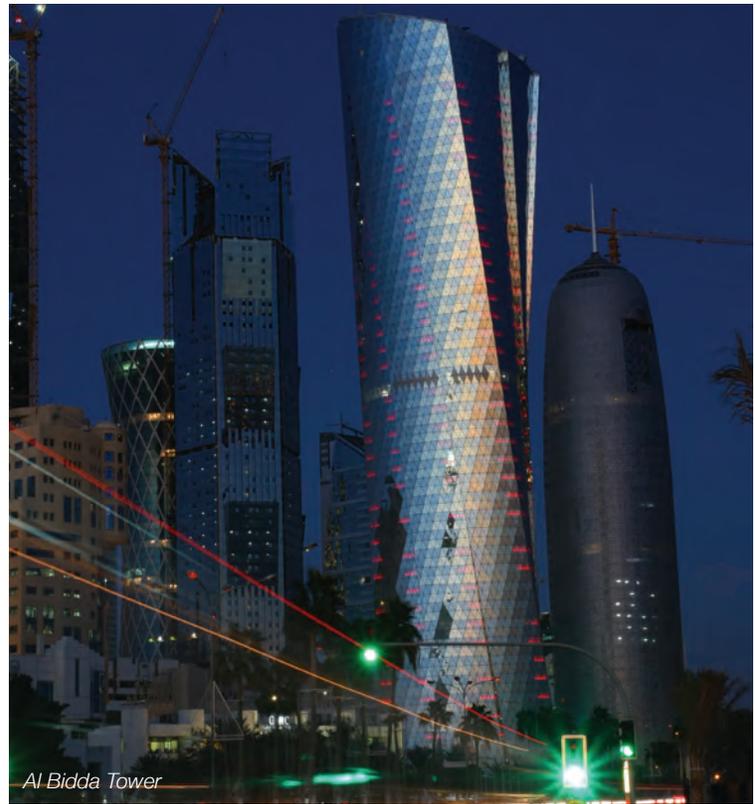
## Middle East

Our integrated team was commissioned to provide full principal consultancy services for Doha's iconic Al Bidda Tower in Qatar. We provided seamless delivery of the following:

- Concept design & design management
- Design development including structural, MEP, civil & landscape design
- Construction documentation & bid process management
- Contract administration & site supervision
- Post contract management & certification

GHD was honored at The Arabian Property Awards 2010 in association with Bloomberg Television for this stunning 45-storey twisting skyscraper. The tower's striking design has captured the attention of international visitors and locals alike since its unveiling in early 2010.

The floor plan rotates at each level as the tower rises which, combined with a diamond-shaped glass façade, gives the impression of movement and life. Additionally, the innovative design means that the leasable floor space increases in size towards the top of this 970,000 square feet commercial building.



## About GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, architecture, environmental and construction services to private and public sector clients.

Established in 1928 and privately owned by our people, GHD operates across five continents – Asia, Australia, Europe, North and South America. We employ more than 8500 people in 200+ offices to deliver projects with high standards of safety, quality and ethics across the entire asset value chain. Driven by a client-service led culture, we connect the knowledge, skill and experience of our people with innovative practices, technical capabilities and robust systems to create lasting community benefits.

Committed to sustainable development, GHD improves the physical, natural and social environments of the many communities in which we operate. We are guided by a Practice Quality Management System, ISO 9001:2008 and an Environmental Management System, ISO 14001:2004 which are certified by Lloyds Register Quality Assurance.

In alignment with the global demands of water, energy and urbanisation, our aim is to exceed the expectations of our clients and contribute to their success.

For more information, visit [www.ghd.com](http://www.ghd.com)

