
SECTOR BROCHURE

Hotels

*Grosvenor House — Dubai, United Arab Emirates.
Structural Engineering services provided.*



**BG
&E**
Part of SYSTRA

BG&E is an international civil and structural engineering consultancy recognised for delivering **innovative, award-winning designs** that prioritise practicality and constructability.

With a team of more than 800 people across 16 offices — spanning Australia, New Zealand, South East Asia, the United Kingdom, and the Middle East — we deliver the highest standard of service across our disciplines.

Clients consistently return to us for our responsiveness and proven ability to provide tailored solutions on complex and challenging projects. This is reflected through industry recognition, client commendations, and numerous awards.

In 2025, BG&E joined forces with SYSTRA, a global leader in public transport and mobility engineering. This partnership expands our technical capability, strengthens our international networks, and support long-term growth across major infrastructure markets and the complex buildings sector.

*The Ritz-Carlton (Elizabeth Quay Lots 9 & 10) —
Perth, WA, Australia.
Façade services provided.*



BG&E has delivered a diverse portfolio of hotel projects across the globe over several decades, from iconic high-rise towers — including the 80 storey JW Marriott Marquis Hotel in Dubai, to the adaptive reuse of heritage structures into boutique accommodation — such as Sydney’s first 25hour Hotel in Paddington, alongside sprawling resorts, affordable facilities, and entertainment precincts.

*JW Marriott Marquis Hotel — Dubai, United Arab Emirates.
Structural Engineering services provided.*



We understand the core drivers of successful hotel design — creating comfort and convenience for guests while optimising space, materials, and energy performance to support long-term operational efficiency and asset value for owners and operators.

BG&E's reputation is built on strong technical capability, innovative value-engineering solutions, and a deeply embedded engineering culture.

Our in-house multidisciplinary teams deliver considered and sustainable built solutions, informed by strong design synergy and a clear understanding of the relationship between structural form, architectural aspiration, building services, and construction materials and methodologies.

*West Side Place — Melbourne, VIC, Australia.
Façade services provided.*



SERVICES

BG&E contributes at all stages of design, including:

- Concept schemes for planning and feasibility study.
- Design development.
- Detailed design and construction documentation.
- Construction phase support and site supervision.
- Condition assessment for existing buildings to provide future-proofing design strategies and remediation advice.
- Due diligence, structural peer review, and value optimisation.
- Post-construction building response and movement monitoring.

ENGAGEMENT & DELIVERY MODELS

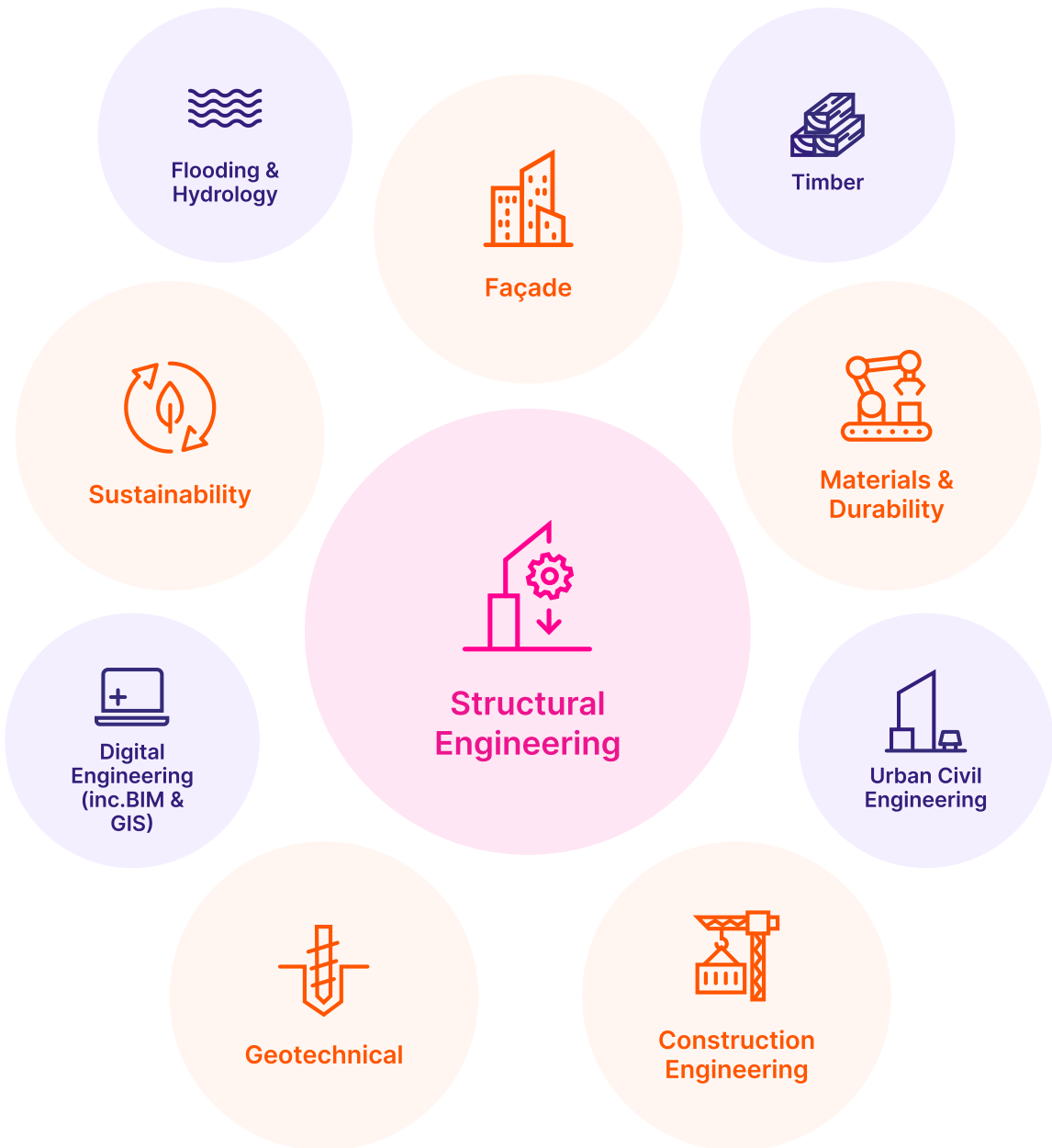
Tailoring our approach to each client's specific requirements, we have experience across various design engagement and project delivery models:

- Design & Construct (D&C).
- Partial Design, Tender & Novation.
- Traditional Design & Tender.
- Value Engineering.
- Early Contractor Involvement (ECI).
- Strategic masterplan design advice.
- Whole building life-cycle assessment and planning.
- Independent structural certification and independent peer review.



9-25 Commonwealth Street, Edition Residences — Sydney, NSW, Australia. Structural Engineering services provided.

Multi-Disciplinary Collaboration





Melbourne Hotel — Perth, WA, Australia.
Structural Engineering services provided.

Why BG&E?

COMBINED DISCIPLINES LEADERSHIP

BG&E originated as a structural engineering firm and has since evolved to offer integrated façade, materials and durability, construction engineering, geotechnical, urban civil, and flood engineering services along with other complementary services in a wide range of Building market sectors. This well-rounded, combined expertise has successfully set BG&E apart from our competitors.

VALUE ENGINEERING

We have a proven track record for cost-effective innovation with a wide range of structures and construction techniques, adding value through cost-effective rather than cost-minimal engineering services. Our reputation is built on collaboration, constructability, and innovation — working closely with planners, architects, developers, builders, and stakeholders to bring complex visions to life.

DESIGN FOR FUTURE USE

Sustainability considerations are integrated by BG&E at every stage of design — including optimised and resilient structural design for future-proofing, sustainable material selection for long-term durability performance, circular economy and material reuse options, carbon-neutral design goal advice and monitoring, and strong ties with R&D academics and industry suppliers to stay ahead of design innovations.

BUILDERS' ENGINEERS

Our focus on buildability, coupled with long-standing relationships with major builders in selected markets, has earned BG&E the renowned reputation of “Builders Engineers”. We understand the importance of constructability, efficiency, and speed of delivery. Our construction engineering experience enables us to provide advice on both permanent design and temporary conditions during the construction phase.

The SYSTRA Group — a global engineering and consultancy leader with 11,000 people worldwide — is now strengthened by BG&E’s international buildings capability, complementing SYSTRA’s long-established expertise in transport and mobility infrastructure.

Building on BG&E’s reputation as a leading structural engineering practice delivering iconic, award-winning projects, the Group provides building solutions across complex and commercial developments, healthcare, education, data centres, adaptive reuse, and transport-related facilities worldwide.