
SECTOR BROCHURE

Commercial

Parramatta Square — Parramatta, NSW, Australia.



**BG
&E**
Part of SYSTRA

BG&E is an international civil and structural engineering consultancy celebrated for its **innovative, cost-effective, and award-winning** designs.

With a dynamic team of over 780 people spanning 16 offices worldwide — including Australia, New Zealand, South East Asia, the United Kingdom and Middle East — we unite local and international professionals to deliver practical solutions with a strong focus on constructability.

Our clients consistently return to us, attesting to our exceptional service, responsiveness, and track record for delivering tailored solutions for technically challenging projects.

In 2025, BG&E joined forces with SYSTRA — one of the world's leading engineering and consulting groups specialising in public transport and mobility solutions — further strengthening our position in one of the world's most dynamic infrastructure markets.



Sustainable & Adaptable Commercial Spaces

BG&E brings over half a century of experience in delivering commercial developments that combine engineering excellence with innovative use of conventional and recycled materials.

Our award-winning design engineers work closely with clients, architects, planners, and communities to realise development visions for commercial buildings and workplaces.

We work across core and shell office buildings, tenant interiors, new builds, refurbishments, high-rise developments, and business precincts. Our designs prioritise flexibility — creating spaces that adapt to evolving tenant needs and maximise long-term leasability.

*One The Esplanade —
Perth, WA, Australia.*



The design team considers the project's social, environmental, and economic context — how it integrates into the existing urban landscape, connects with surrounding infrastructure and amenities, and supports adaptive workspaces.

We provide multi-disciplinary services for all stages of the project lifecycle, from planning and design through to construction, asset management, and refurbishment. Our building design expertise is strengthened by in-house capabilities in civil, construction engineering, façade, flooding and hydrology, materials and durability, sustainability, and timber design services.

*Homefire Film Studio —
Perth, WA, Australia.*



Technical Expertise



Flooding &
Hydrology



Timber



Façade



Sustainability



Materials &
Durability



Digital
Engineering
(inc.BIM &
GIS)



Structural
Engineering



Urban Civil
Engineering



Geotechnical



Construction
Engineering

Adaptive Reuse

Adaptive reuse has rapidly gained momentum as it aligns with global sustainability trends by cutting carbon footprints, minimising waste, and repurposing materials efficiently — all while saving costs and preserving and revitalising iconic structures.



Seamless integration of our technical discipline teams with our Buildings team, enabling the delivery of projects from testing and design to execution and asset management.



In-house Digital Engineering capabilities, which allow us to use tools such as digital twins to stimulate the construction phase, including total building movement.



Longstanding partnerships with asset owners, fostering a deep understanding of their operations both nationally and abroad.



Extensive technical experience, backed by a **proven track record** in the field.



Seasoned experts with 20+ years of experience in their respective fields and regions.



High level of responsiveness, confirmed by client feedback.

BG&E COMMERCIAL

"QQT has been a significant engineering achievement, Multiplex and BG&E have worked collaboratively together over the last four years to overcome a multitude of engineering challenges. BG&E are a solution-oriented engineering firm with a can-do attitude. Their approach to problem solving, combined with their engineering expertise, has enabled Multiplex to successfully deliver QQT. I recommend BG&E as an engineering firm of considerable skill and capability."

ROBERT KIELY

Senior Design Manager, Multiplex Australasia



CTBUH, winner:
2023 Award of
Excellence - Best
Tall Building 200-
299 metres.



WAF (Lisbon),
winner: 2023 UK,
Buildings - Office
Award.



German Architecture
Museum (DAM) and
DekaBank (Germany),
winner: 2022/23
International High-Rise
Award.



IABSE, winner:
2023 Gold
Star Award &
Rehabilitation
Category.



MIPIM Awards
(Cannes), winner:
Most Innovative
Built & Natural
Environment
Consulting Firm.

At BG&E, we are united by a common purpose — we believe that truly great engineering takes curiosity, bravery and trust, and is the key to creating extraordinary built environments.

Our team of more than 780 highly skilled people, in offices across Australia, New Zealand, Singapore, the United Kingdom and Middle East, design and deliver engineering solutions for clients in the Property, Transport, Ports and Marine, Water, Defence, Energy and Resources sectors.



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