

SECTOR BROCHURE

# Defence



**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.



# Engineering Solutions for Robust National Defence



**In our rapidly evolving world, the demand for robust, cost-effective, and sustainable engineering solutions to enhance national Defence is paramount.**

We must ensure that the technical capability of our Defence organisations remains strong — especially as system complexity grows in the industry and next-generation military assets are procured.

Our steadfast commitment to excellence and a proven track record of successful projects establishes BG&E as the top choice for engineering design and consulting in the Defence sector.

Working closely with the Department of Defence and key industry partners, we recognise the need for sophisticated infrastructure to facilitate Defence operations. Additionally, we are acutely aware of the legislative, political, and community dimensions, ensuring sensitivity in our approach.

# Supporting Defence – Our Disciplines & Capabilities

Our mission is clear: leveraging our diverse and specialised engineering expertise to deliver comprehensive innovation and solutions, safeguarding our nation's interests in the Defence industry.



Civil inc. Urban & Regional Land Development



Construction & Temporary Works



Design Management Services & Coordination



Digital inc. BIM & GIS



Flooding & Hydrology inc. Water Resources



Geotechnical



Land & Estate Planning



Logistics Planning



Materials & Durability



Structural inc. Buildings & Infrastructure



Traffic & Transport Planning



Water Infrastructure inc. Hydraulic Infrastructure

# Why Partner With Us?

**Working with BG&E for your Defence project means securing a strategic partner with a proven track record and exclusive benefits tailored to achieving your project objectives and purpose.**

## CERTAINTY OF DELIVERY

Our commitment to meeting program obligations is underpinned by our early resource allocation, and strong collaborative relationships with all stakeholders, ensuring clients can trust in our commitment to meet program obligations.

## INNOVATIVE ENGINEERING

We are renowned for our innovative design work, and our fundamental consideration is constructability, reducing construction time, and ensuring solutions align perfectly with a project's functional objectives and brief. Every solution we deliver is bespoke and 'best for project', rather than easiest for BG&E.

## NO GEOGRAPHIC CONSTRAINTS

BG&E boasts a unique advantage: we can tap into engineers from various disciplines and select the most qualified individuals for the job, regardless of which office they sit in, ensuring seamless execution without state-based subcontractor constraints.

## TEMPORARY WORKS DESIGN

Our specialist construction engineering and temporary works design group seamlessly integrate temporary works design into the detailed design. We believe this approach is more cost effective and reduces risk.



## MANAGEMENT SYSTEMS

Our strong commitment to our management systems is one of the principal drivers of the provision of quality advice, design and documentation to our clients.

BG&E maintains and implements independently audited management systems:

ISO 9001:2015	Quality Management System
ISO 14001:2015	Environmental Management System
ISO 45001:2018	WHS Management
ISO 19650-2:2018	Organisation and digitisation of information about buildings and civil engineering works, including BIM



## SECURITY & COMPLIANCE

Security is of utmost importance in Defence projects, and we maintain a keen awareness of the legislative, political, and community aspects, guaranteeing a sensitive and vigilant approach. With BG&E, you have certainty that sensitive information and data remains within Australia.

## COMMITMENT TO QUALITY

Quality is a non-negotiable for our team — we are meticulous in our work and ensure all elements of a project meet the highest quality standards. To achieve this, we implement a Quality Assurance Plan for each Defence project. HID

## COLLABORATIVE RELATIONSHIPS

Fundamental to our success is an ability to work collaboratively with our client, design services sub-contractors, project managers, design managers, consultant firms and other stakeholders for the benefit of the project. Relationships with contractors including Lendlease, BMD, Multiplex, Doric, and IPSA enhance our capacity to deliver comprehensive Defence solutions.

## RESPONSIVENESS

Our business and reputation are built on our unwavering commitment to responsiveness, in recognition of its importance to clients. We're committed to long-term partnerships and supporting your future endeavours.

## OPTIMISING INDIGENOUS OPPORTUNITIES

We aim to empower First Nations communities, with a focus on education and employment pathways, as well as procurement practices. We are now partnering with Indigenous engineering firms that augment our proposed resources for Defence projects.

## VALUE ENGINEERING

In addition to delivering efficient, cost-effective design, our civil, structural and materials expertise is available to 'value engineer' and peer review all aspects of projects on which we work — optimising project costs while maintaining the highest quality standards.

We acknowledge that Defence requires capabilities that achieve a threshold effect, inclusive of all fundamental inputs within the required timeframe. BG&E works with clients to streamline processes that deliver and sustain capability. This approach is ingrained in our design process, where we partner with clients to define the lowest acceptable military effect that infrastructure solutions contribute to the overall capability. Importantly, we acknowledge that delivery-on-time is at times one of the most critical factors that define success for projects.

## OUR KEY PARTNERS



**MULTIPLEX**





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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 800 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.