

Capability Statement

16 Oct 2020

KELLOGG BROWN & ROOT PTY LTD



INDUSTRIES SERVED

CLEAN ENERGY

CONSTRUCTION &
ENGINEERING

DEFENCE

MINING

OIL, GAS & ENERGY

PROFESSIONAL
SERVICES

RAIL

TRANSPORT

WATER

Company Details

Address: Level 4, 11 Lancaster Place
MAJURA ACT, 2609 Australia

Ph: +61 8 6102 2600

Email: enquiries@kbr.com

Web: www.kbr.com

ICN Gateway Company ID: 22864

Employees: 28000

ABN: 91 007 660 317

Locations: 6

Local Manufacturer: No

Foreign Manufacturer: No

Importer: No

Exporter: Yes

NT CAL Accredited: No

Works in Remote Locations: Yes

Australian Indigenous Owned: No

Contacts

Ms Linda Gledhill

Ph: +61 2 6102 2741

Email: linda.gledhill@kbr.com

Rob Hawketts

Ph: +61 2 6102 2600

Email: rob.hawketts@kbr.com

At KBR, we partner with government and industry clients to provide purposeful and comprehensive solutions with an emphasis on efficiency and safety. With a full portfolio of services, proprietary technologies and expertise, our approximately 28,000 employees are ready to handle projects and missions throughout their entire lifecycle, from planning and design to sustainability and maintenance.

Summary

For nearly 60 years KBR has delivered engineering and project management services to major Australian projects. Our portfolio has diversified extensively over that time-as Australia's needs have grown and changed, so have our capabilities extended and adapted to meet those needs.

At the core of everything we do is our commitment to safety, to strong working relationships, and standing by our motto 'We Deliver'.

Government Solutions: Acting as a trusted strategic partner,

KBR offers sustainable solutions and specialist services to government and defence projects, large and small. We are a leader in training services and AR/VR technologies, and a Major Service Provider to Defence's Capability Acquisition and Sustainment Group.

Infrastructure Services: From safe and reliable water sources, state-of-the-art health and education facilities, to efficient transport systems and clean energy, KBR supports clients to deliver vital infrastructure on all.

Description

In Australia, KBR's services are delivered through its Infrastructure Services and Government Solutions business lines.

KBR's Infrastructure Services Australia business has approximately 830 staff operating from offices in Brisbane, Sydney, Melbourne, Adelaide and Perth.

Infrastructure Services Australia offers a wide range of professional consulting services to private and public sector clients to deliver projects of any size in both urban and remote environments in the following key areas:

- Transport, Buildings and Defence Infrastructure (road, rail, bridges, ports, aviation, buildings)
- Water and Environment (water treatment, wastewater treatment, bulk water distribution, asset management, flood modelling, disaster resilience, total catchment management, specialist environmental sciences, planning and

engagement, GIS services).

We are technically and geographically diversified to match the characteristics of our principal markets and have the capability to service our clients' requirements through all phases of project development and implementation, including:

- engineering studies, planning, FEED, conceptual design and feasibility studies
- detailed engineering design
- technical advisory, proof engineering and verification
- project and program management
- engineering, procurement, construction, commissioning and maintenance.

We bring to our projects fit-for-purpose safety management, quality assurance, risk management, and project controls (including cost control,

scheduling, document control, and estimating). Our clients can also take advantage of our in-house environmental, sustainability, stakeholder and community consultation and spatial services as well as our advanced operator/maintenance training to augment our engineering and planning services.

KBR's Government Solutions in Australia has approximately 670 employees and successfully delivers large and complex projects and training solutions to defence and government clients. We provide a full range of services to support every requirement, including program management and integration, project management, engineering, logistics, asset and fleet management, technology solutions, training development and delivery of eLearning and training capabilities.

We focus on building and maintaining enduring customer relationships across the lifecycle of a program or project: from early engagement activities such as planning, consultation and design; through engineering, construction, procurement and acquisition; and beyond to asset management and long-term sustainability.

Offering a blend of people, processes and systems,

Government Solutions APAC provides:

- .Hands on knowledge and expertise delivered by experienced consultants with a proven track record on a large range of defence and government projects
- .Former Defence personnel with military and/or civilian qualifications and a thorough understanding of the defence environment
- .Specialised experience in requirements analysis, project management, integrated logistics support, systems engineering, logistics management, mission planning and information technology
- .Qualified training professionals with extensive hands-on experience in the analysis, design, development, delivery and evaluation of individually tailored training systems
- .ISO (International Organization for Standardization) accredited systems ensuring safe, reliable, consistent services of the highest quality
- .Extensive Australian presence and local capacity

Industries Served

- > Clean Energy
- > Construction & Engineering
- > Defence
- > Mining
- > Oil, Gas & Energy
- > Professional Services
- > Rail
- > Transport
- > Water

Accreditations

- > Registered Training Organisation (RTO)




Products & Services

- > Engineering Services, planning, FEED, conceptual design and feasibility studies
- > Project and program management
- > Modelling, Simulation and Training
- > ILS, asset and fleet management

Facilities and Equipment

- > Major engineering and consulting offices in Brisbane, Sydney, Canberra, Melbourne, Adelaide, and Perth and project offices in a number of locations including Darwin.

Other Accreditations

- > Australian Institute of Project Management (AIPM) - Corporate Member
- >  Australian Institute of Engineers Corporate Member
- >  Consult Australia (formerly known as the Association of Consulting Engineers Australia (ACEA) Corporate Member
- >  SAP Australia User Group (SAUG) corporate Member

Major Clients

- > Department of Defence
- > Navantia
- > Rolls-Royce
- > Luerssen
- > Level Crossing Removal Authority
- > Department of Economic Development, Jobs, Transport and Resources
- > VicRoads
- > Transport for NSW
- > Sydney Trains
- > Roads & Maritime Services
- > Department of Planning, Transport and Infrastructure
- > Department of Main Roads WA
- > Queensland Department of Transport and Main Roads
- > Melbourne Water
- > TasWater
- > Sydney Water
- > SA Water
- > Water Corporation WA
- > Queensland Urban Utilities
- > OZ Minerals
- > John Holland
- > WBHO
- > Fulton Hogan
- > Laing O'Rourke

Previous Significant Projects

2019

LHD Sustainment Training Services
\$15,000,000

Client: Department of Defence

The LHDs are 230m long, 25m wide, have 15 decks and are the largest ships in the RAN's history. KBR developed a 3D ship walkthrough model which has been enhanced and repurposed to become an integral part of the LHD training system. Navy now has a 3D walkthrough of the ship in a gaming engine, with avatars leading scenario-based training, delivered by KBR at a purpose-built training facility in Sydney.

2018

Major Service Provider (MSP)
\$250,000,000

Client: Capability Acquisition & Sustainment Group

As a Major Service Provider, KBR provides the capability and capacity to deliver a range of services, including:

- strategic guidance on capability acquisition and sustainment
- skilled personnel across a wide range of skill sets and experience levels in direct support of CASG Centres of Expertise
- dedicated project teams for specific acquisition and/or sustainment projects.

2018

Regional Towns Water Supply Program
\$40,000,000

Client: TasWater

The Program delivered potable water supply to 17 Tasmanian townships, delivered under multiple design & construct (D&C) work packages covering new membrane treatment plants, transfer pipework, storages, pump stations and disinfections systems, and reticulation networks. KBR has a team working alongside TasWater. Services include project management, contract management, supplier management and procurement, engineering reviews, stakeholder engagement and health and safety management.

2019

Naval Shipbuilding College
\$15,000,000

Client: Department of Defence

Through a KBR and HII JV, NSI is delivering a unique organisation with the national purpose of ensuring the required workforce is equipped with the right skills at the right time to implement the Australian government's ambitious naval shipbuilding program.

2018

Hornsby Rail
\$200,000

Client: Transport for NSW

Sydney Trains wanted to visualise what drivers would see when they entered Hornsby Station, on any of its 6 new lines. A gaming engine was used to host the engineering, point cloud and CAD data. This provided unlimited flexibility. It was so successful that the model was ported to VR and then delivered as familiarisation and training to drivers, freeing up expensive and high-demand simulators.

2018

Melbourne Water
\$200,000

Client: Melbourne Water

KBR built a 3D model of the water treatment plant using various engineering data. Using the model designers, maintainers, engineers and safety officers validated the orientation, suitability and safety of all facilities and equipment within the plant.

2018

Victorian Level Crossing Removal Projects
\$1,000,000,000

Client: Level Crossing Removal Authority

As Lead Designer and Partner, KBR has been part of a collaborative alliances with John Holland, and Metro Trains Melbourne and the Level Crossing Removal Authority. Level crossings removals delivered to date include Camp Road, Skye Road, Buckley Street, Burke Road, McKinnon Road, North Road, Centre Road and Mitcham and Rooks

2017

Darlington Upgrade Project
\$25,000,000

Client: Gateway South JV: Fulton Hogan Construction Pty Ltd and Laing O'Rourke Australia Construction Pty Ltd

The Darlington Upgrade Project is a key step in the upgrade of Adelaide's 78km North-South Corridor. The project will deliver a 3.3km extension of the Southern Expressway. This will remove 5 sets of traffic lights, improving the travel time for north-south traffic and grade separating Adelaide's busiest intersection. KBR, in joint venture, provided all engineering services for the project.

2017

SA Water Project Management and Procurement
\$1,500,000,000

Client: SA Water

KBR has entered a project management and procurement (PMP) contract with SA Water to jointly manage the delivery of SA Water's capital works program for metropolitan Adelaide. KBR provides program and project management, planning and procurement of design and construction services. Following client evaluation of the team's performance as 'exceptional', the contract was extended from 5 years to 7 years to the end of June 2018.

2016

Marine ILS Support
\$8,000,000

Client: South East Asian client

In 2010, KBR was engaged to provide ILS and logistic support analysis planning for several system components of the Republic of Singapore Navy's 'Formidable' Class frigate, and to collaboratively prepare the successful tender response for the design and construction of patrol vessels for a Middle Eastern navy - for which KBR has since been contracted to provide ILS and LSA services and documentation. In 2011 we were contracted to conduct an ILS capability gap analysis and training needs analysis

2017

North West Rail Link, New South Wales
\$8,000,000,000

Client: Northwest Rapid Transit, for Transport for New South Wales

The project consists of construction of 23 km of a new electrified, twin track, rapid transit railway between Epping and Rouse Hill, twin 15 km tunnels from Bella Vista to Epping. KBR is undertaking engineering and design of track (horizontal and vertical alignment), overhead traction, rail systems, tunnel drainage, associated civil works, structures (buildings, overhead traction), building services, and a rail maintenance facility. Its the largest project under construction in Australia.

2016

Botany Industrial Engineering Services, New South Wales
\$100,000,000

Client: Orica

Since 1998, KBR and Orica Australia entered into an alliance by which KBR has provided multidisciplinary engineering services to the New South Wales operations of Orica at Botany Industrial Park. The alliance agreement covers three major industrial companies based at the site, namely Orica, Huntsman and Qenos, which produce a range of chemicals and plastics. Projects have included the design and construction of a product handling and conveying system for Qenos' alkathene plant (in 2001).

2016

Navy Technical Training Support Services (TTSS)
\$100,000,000

Client: Department of Defence - Navy

The Technical Training Support Services (TTSS) contract provides a wide range of training and support for electronic and marine technicians. Available Australian Qualifications Framework (AQF) qualifications range from Certificate III through to Advanced Diploma.

KBR provides training in all technical qualifications, employing over 100 people in the team including 72 full-time and sessional instructors across Australia. Most of the

2015

ILS for the Auxiliary Oiler Replenishment (AOR) vessel - SEA 1654 Ph 3
\$15,000,000

Client: Navantia (end client - Department of Defence - Navy)

KBR is a key partner to the shipbuilder, Navantia SA, providing Integrated Logistic Support (ILS) services to the program.

Alongside its personnel's technical and operational knowledge, KBR has used the proprietary Consolidated Analysis Toolset (CATS) to analyse, design, develop and implement a holistic ADF-compliant ILS solution that provides the required artefacts to transition the program from the Acquisition Phase to the Sustainment (In-Service) phase of the ship lifecycle.

2014

Esperance Port Access Corridor Upgrade, Western Australia
\$100,000,000

Client: John Holland Pty Ltd for Main Roads Western Australia

The access corridor for Esperance Port is being upgraded to improve the safety and efficiency of heavy freight access to the port by removing at-grade conflicts between road and rail. The \$120 million project comprises 2 km of rail and road realignment, including two bridges; a rail tunnel, 150 m long; a pedestrian underpass, 55 m long; and provision for two additional railway tracks in future.

2014

Mains and Kessels Roads Intersection Upgrade- Contract Administration & Verification
\$100,000,000

Client: Department of Transport and Main Roads

The Queensland Government through the Department of Transport and Mains Road (TMR) appointed KBR as the Principals Representative Delegate, Contract Administrator and Independent Verifier for the Mains Road and Kessels Road Intersection Upgrade Project, Brisbane. The project has been tendered on the double Early Contractor involvement (dECI) process and has been designed and

2015

Regional Rail Link, Victoria
\$4,000,000,000

Client: Regional Rail Link Authority

KBR, in joint venture, undertook investigations, functional design development, prepared documentation for procurement of the project and supported the client with key project approvals, land acquisition and community and stakeholder engagement for the \$5 billion project. RRL is a major development of Melbourne's rail network, consisting of a 50 km, twin-track rail line, running from west of Werribee to Southern Cross Station via Tarneit and Sunshine in greenfield and brownfield locations.

2014

Carmichael Coal Mine Bankable Feasibility Project, Queensland
\$10,000,000,000

Client: Adani Mining Pty Ltd

The project is part of Adani Mining Pty Ltd's long-term strategy to deliver up to 40 Mt/a of product coal. KBR was engaged to coordinate delivery of the Bankable Feasibility Studies for 3 projects at the site including the Coal Mine Project, North Galilee Basin Rail Project and the Abbot Point Coal Terminal O Project. KBR undertook oversight of all engineering and project management functions, and through the BFS Reports, documented the status of each project and preparedness for execution.

2014

LHD Capability Support Coordinator (CSC)
\$150,000,000

Client: Department of Defence - Defence Materiel Organisation

In 2014 KBR was awarded a contract by the Defence Materiel Organisation (DMO) to provide the Capability Support Coordinator (CSC) services for the CANBERRA Class Landing Helicopter Dock (LHD) ships.

The CSC team provides sustainment services including configuration management, data management, maintenance monitoring, engineering and supply support services, all within an Asset Management framework to meet the technical integrity, seaworthiness and mission

2014

**Melbourne Airport Terminal 2 Transformation
Project Management, Victoria
\$2,000,000,000**

Client: Australia Pacific Airport Melbourne Pty Ltd

The master plan for Melbourne Airport plans to develop the international terminal, Terminal 2, with a \$2.8 billion program of landside, terminal and airside works over the 20 years to 2033. KBR (in joint venture) undertook an assessment of the feasibility of the proposed transformation of Terminal 2, investigating a range of projects which can implement it. They will be staged to meet increasing passenger demands while minimising the effects on airport operations.

2013

**Eastern Tertiary Alliance, Victoria
\$400,000,000**

Client: Melbourne Water Corporation

Tertiary treatment of wastewater at the Eastern Treatment Plant was implemented to improve the quality of final effluent from Class C to Class A. Phase 1 saw KBR, as an alliance partner, undertake pilot testing and evaluation of treatment options, concept design and functional design which provided treatment capacity up to 750 ML/d. For Phase 2, KBR provided design management, detailed design/documentation, environmental services, & technical advice during the construction, commissioning period.

2013

**Maritime facilities, Gorgon LNG Project
\$8,000,000,000**

Client: Kellogg Joint Venture Group for Chevron Australia

An LNG production plant of three trains, each 5 Mt/a, is to be constructed on Barrow Island to process gas from the Greater Gorgon gas fields which lie approximately 140 km off the north-west coast of Western Australia. In addition to leading the design and installation of the LNG plant, KBR designed the maritime facilities for the \$43 billion project. These will be used for offloading all plant, equipment/materials for construction of the plant and a marine transport on completion.

2014

**New Royal Adelaide Hospital PPP, South
Australia
\$2,000,000,000**

Client: SA Health Partnership consortium

KBR is part of the SA Health Partnership consortium contracted for the design, construction and maintenance of the New Royal Adelaide Hospital-the largest public-private partnership in Australia. KBR provided civil and structural engineering services, and site surveillance. Once constructed, the hospital will be the most advanced in Australia and the single largest infrastructure project in the state's history.

2014

**Southern Expressway Duplication, South
Australia
\$400,000,000**

Client: Department of Planning, Transport and Infrastructure

This significant piece of DPTI and South Australian infrastructure was recently modified as part of the DPTI vision for a 78km non-stop North South Corridor. The 18.5 km duplication included the construction of a new carriageway adjacent to the existing, formerly reversible single carriageway, remodelling of interchanges, 20 bridges widened, duplicated or lengthened, one new flyover bridge, significant services and ITS works, all within a heavily trafficked motorway corridor.

2013

**Hope Downs 4 Iron Ore Mine Project
\$1,000,000,000**

Client: Pilbara Iron

The Hope Downs 4 Project was a greenfield mine development in the Pilbara region of West Australia. Its facilities are designed to handle 15 million dry tonnes of ore a year. KBR delivered the original preliminary and definitive engineering study for the Hope Downs 4 project before being engaged to provide engineering, procurement and construction management (EPCM) services for the mine development. KBR's scope of services included design, engineering, procurement, project & construction mgmt.

2013

**Mid West Rail Upgrade, Western Australia
\$500,000,000**

Client: Brookfield Rail Pty Ltd (formerly WestNet Rail Pty Ltd)

the MidWest Rail Upgrade upgraded the existing railway from Geraldton to Tilley to facilitate the transport of ore from the Karara magnetite mine to the port of Geraldton. KBR undertook independent verification of the basis of design, the cost estimate and the construction schedule for the upgrade as well as the operational planning for the upgraded railway. KBR also undertook independent certification of the cost, time and quality aspects from the perspective of risk to the financiers.

2012

**Goonyella to Abbot Point Rail Expansion (Coal Connect Alliance), Queensland
\$400,000,000**

Client: Aurizon (formerly QR National)

KBR, as part of the CoalConnect project alliance, delivered civil components for the \$1.1 billion Goonyella to Abbot Point Expansion Project for Aurizon (formerly QR National). At the time of construction, the project represented the largest ever investment in rail infrastructure in Australia. It linked and upgraded the rail lines of two of Queensland's major coal systems, Newlands and Goonyella, enabling the coal transport capacity to the port of Abbot Point to be doubled.

2012

**Townsville Port Expansion, Queensland
\$100,000,000**

Client: Seymour Whyte Smithbridge Joint Venture (for Port of Townsville Limited)

In order to meet the demands of growth, Port of Townsville Limited undertook an expansion of the inner harbour of the port and works at Berths 8 and 10. As design consultant to the successful design-build tenderer for the project, KBR undertook concept development and design for the tender stage and detailed design of all structural and civil works for construction of the project, including fenders and mooring systems.

2013

**Pluto Riser Platform
\$300,000,000**

Client: Woodside Energy Ltd

The foundation Pluto LNG Development consists of subsea wells located in permit WA-350-P with a riser and gas export platform with the capability to transfer 1,600 MMscfd in water depth of more than 285 feet (85 meters). A 36-inch subsea pipeline connects the 5,000-tonne topside offshore platform to Train 1 of the Pluto LNG facility at the Burrup peninsular. KBR (via EOSJV) contributed to every phase of the development of the Pluto Riser Platform from concept select to follow-on engineering.

2013

**Rehabilitation and Upgrade of 3, 4 and 5 Webb Dock, Port of Melbourne, Victoria
\$1,000,000,000**

Client: Port of Melbourne Corporation

KBR prepared detailed designs and documentation for structural upgrading and remedial works at 3, 4 and 5 Webb Dock. These works would be required as a result of the retrodredging of the berths for the channel deepening project. KBR's designs were fully costed and will provide essential input into the planning and budgeting for the project. The detailed designs were based on earlier concept designs and feasibility studies for some of the wharves and detailed designs for the others.

2012

**North Rankin B Platform
\$3,000,000,000**

Client: Woodside Energy Ltd

The NR2 Project recovers low pressure gas from the North Rankin and Perseus gas fields. The project included the installation of a second platform (North Rankin B) which stands in about 125 metres of water. The North Rankin B platform is connected by a 100 metre bridge to the existing North Rankin A platform. The NR2 Project will also include necessary tie-ins and refurbishment of North Rankin A. Upon completion, both platforms operate as a single integrated facility.

2012

**Wandoo Housing Project, Western Australia
\$300,000,000**

Client: Rio Tinto Iron Ore Expansion Projects

Providing an improved and upgraded standard of accommodation that best suits the requirements of future mining operations in the Pilbara region saw KBR carry out a thorough engineering investigation of the remote town of Pannawonica's existing facilities and the level of refurbishment that would be required to bring it up to an acceptable standard. Following the study, KBR was engaged to execute engineering, procurement and construction management (EPCM) upgrade package.

2011

**Ted Smout Memorial Bridge, Queensland
\$300,000,000**

Client: Department of Transport and Main Roads

The Queensland Government undertook a duplication of the Houghton Highway that features a 2.7-km long, 3-lane bridge built above the extreme wave conditions possible in Moreton Bay in south-east Queensland. The bridge across Bramble Bay is the longest bridge in Australia. KBR was responsible for investigation, planning, design and documentation for the bridge and ancillary structures, which have been built by the Hull-Albem-Bielby Joint Venture.

2009

**Southern Regional Water Pipeline and Northern Network Alliance, Queensland
\$1,000,000,000**

Client: Southern Regional Water Pipeline Company Pty Ltd, trading as LinkWater Projects

Three potable water pipelines, one around 100 km long and another 50, were delivered by the Southern Regional Water Pipeline Alliance as critical drought contingency projects of the Queensland Government. As an alliance member, KBR completed the route selection, concept design, EIS and approvals for the projects. KBR was a partner in the Southern Regional Water Pipeline Alliance, joining with owner LinkWater Projects and constructors Abigroup and McConnell Dowell to design/deliver the projects.

2011

**Gawler Railway Line Upgrade D&C, South Australia
\$20,000,000**

Client: John Holland-Coleman Rail Joint Venture (for South Australian Railway Commissioner)

The line was upgraded to make significant improvements in the structure, geometric alignment, drainage system and future maintenance of the line. KBR provided engineering design and documentation to the joint venture undertaking the design and construction contract for Stage 1 of the upgrade, approximately 7.64 km of dual track between Adelaide and Dry Creek.

2009

**Moomba Carbon Storage Project, Concept Study, South Australia
\$700,000,000**

Client: Santos

KBR investigated the technical and economic feasibility of capturing all CO₂ separated at the Moomba gas plant, and then treating, compressing and transporting it by pipeline for sequestration in nearby oil reservoirs. One of the few large-scale options for lowering greenhouse gas emissions, this method of carbon capture and storage can also re-pressurise the depleted reservoirs and enable enhanced recovery of oil left behind by traditional extraction methods.

2008

**Angel Field Development
\$1,500,000,000**

Client: Woodside Energy Ltd

The Angel project is a development of a gas and condensate field located 125 km offshore from the Burrup Peninsula and 50 km east from the existing North Rankin A platform.

An integrated KBR-Woodside team detailing the Basis of Design and resolving technical uncertainties in preparation for FEED. KBR (as part of EOS JV) provided multidiscipline FEED and detailed engineering services while Granherne provided maintenance planning expertise during the operations support phase.

2008

**EastLink Proof Engineer, Victoria
\$2,000,000,000**

Client: ConnectEast and Theiss-John Holland

EastLink was a build-own-operate-transfer road project which connected Melbourne's Eastern Freeway at Mitcham and the Frankston Freeway at Seaford by 39 km of tolled high-speed motorway. KBR, in joint venture, was appointed Proof Engineer and Construction Verifier for EastLink and was responsible for the proof engineering of all design for the road geometry, drainage, structures, including the twin tunnels, and all aspects of tunnel design related to fire and life safety.

2000

**Olympic Dam Expansion (ODX) South Australia
\$2,000,000,000**

Client: BHP Billiton (formally WMC Resources Limited)

The Olympic Dam Expansion Project comprised major upgrades to increase ore production from 3 megatonnes to 9 megatonnes per year and refined copper production from 85,000 tonnes to 200,000 tonnes per year. KBR provided engineering and documentation for several major engineering packages, including No. 3 shaft loading station, mine backfill plant upgrade, underground mine services, whenan control room/mine control room changeover and mid-shaft electrical for No. 3 shaft



Powered by  **icngateway**

icn.org.au | 1300 961 139