

Capability Statement

23 Feb 2018

SMEC AUSTRALIA PTY. LIMITED



INDUSTRIES SERVED

DEFENCE

CONSTRUCTION &
ENGINEERING

LAND &
AGRICULTURE

RAIL

STEEL

HEALTH

PROFESSIONAL
SERVICES

IT &
COMMUNICATIONS

CLEAN ENERGY

MINING

OIL, GAS & ENERGY

TRANSPORT

WATER

Company Details

Address: Level 5
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Sydney NSW, 2060 Australia

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Email: sydney@smec.com

ICN Gateway Company ID: 94340

Employees: 5400

ABN: 47 065 475 149

Locations: 19

Local Manufacturer: No

Foreign Manufacturer: No

Importer: No

Exporter: No

NT CAL Accredited: No

Works in Remote Locations: Yes

Australian Indigenous Owned: No

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SMEC is a multidisciplinary consultancy firm with a global footprint, recognised around the world for providing fully integrated engineering solutions for physical and social infrastructure projects.

Summary

SMEC is a multidisciplinary consultancy firm with a global footprint, recognised around the world for providing fully integrated engineering solutions for physical and social infrastructure projects.

A provider of high-quality technical and specialist services, SMEC provides clients with consulting services for the lifecycle of an infrastructure project, from feasibility studies and detailed design, through to contract management, construction supervision, operations and management.

Description

SMEC is a multidisciplinary consultancy firm with a global footprint, recognised around the world for providing fully integrated engineering solutions for physical and social infrastructure projects. As one of the world's leading transport consultants, SMEC provides robust solutions for transport infrastructure projects worldwide.

SMEC's hydropower and energy expertise is all-encompassing, having completed upgrades and refurbishments on existing infrastructure and the design and construction of new facilities. SMEC's technical expertise extends across every aspect of the water cycle and helps to ensure the highest standard of care in protecting the environment.

SMEC's integrated urban development services maximize the potential of projects worldwide, while SMEC's social development services generate economic wealth and contribute to national development. Within the resources sector, SMEC provides a full range of infrastructure services that enable clients to initiate, develop, operate and maintain their assets.

SMEC differentiates its service offering through its Localisation Strategy. SMEC aligns this local knowledge with technical expertise to address the needs of its diverse client base and has delivered thousands of projects in more than 100 countries throughout Australia and New Zealand, Asia

Pacific, South Asia, the Middle East, Africa and North and South America. SMEC works with clients to provide cost-effective, practical and sustainable project outcomes that deliver strong returns for shareholders while contributing to the economic and social development of nations. SMEC's client base is diverse and includes: local and multi-national contractors; government departments; statutory bodies; private sector organisations; utility providers; and International Financial Institutions (IFI) responsible for funding and coordinating major infrastructure projects.

A provider of high-quality technical services, SMEC provides clients with consulting services for the lifecycle of an infrastructure project, from feasibility studies and detailed design, through to contract management and construction supervision. SMEC's services include: pre-feasibility and feasibility studies; field investigations, laboratory testing and computer modelling; preliminary through to detailed design (structural, civil, architectural, mechanical and electrical); tender, contract and document management; quality assurance and control; construction supervision; commissioning, operation and maintenance; training and project management; and whole-of-life asset management.

SMEC has been ranked in the Top 100 of Engineering News-Records (ENR) Top 225 International Design Firms for the past 15 years. In 2015, SMEC was ranked at Number 51 in the Top 225 International Design Firms and Number

Dams and Reservoirs sector; number 11 in the Highways sector; number 12 in Water Supply; and number 13 in Transmission Lines and Aqueducts.

SMEC has won multiple industry awards for excellence. In 2014, SMEC won the gold award (Client Focus category) at the Consult Australia Awards for Excellence for the Mid-West Ports Authority Asset Condition Assessment; the Minerals, Energy and Related Services Award at the Governor of Victoria Export Awards; and the Projects Under R50 Million category at the Consulting Engineers South

Africa (CESA) Aon Engineering Excellence Awards for the Isando Pedestrian Bridge (the 'Walking Wonder').

The SMEC Foundation also received an Outstanding Achievement award in the 2014 Australian Charity Awards. SMEC believes in nurturing a corporate culture that reflects the SMEC Spirit - a culture built on strong business acumen and a can-do approach that emphasises sound operational management, technical excellence, teamwork and recognition of performance.

Associations

- > Engineers Australia
- > Engineers Australia Professional Develop Program
- > Consult Australia
- > Australia Water Association
- > Northern Territory Building Practitioners Board
- > Property Council of Australia (South Australia division)
- > Property Council of Australia (Victoria division)
- > Roads Australia
- > Australian Green Infrastructure Council
- > Water Industry Alliance
- > Australasian Corrosion Association
- > Association of Land Development Engineers
- > International Road Federation
- > Australian National Committee of Large Dams (ANCOLD)
- > Association of Consulting Surveyors (Victoria Division)
- > Urban Development Institute of Australia (Queensland Division)
- > Urban Development Institute of Australia (Victoria Division)
- > Ecological Consultants NSW
- > Environmental Institute of Australia and New Zealand (EIANZ)

Industries Served

- > Defence
- > Construction & Engineering
- > Land & Agriculture
- > Rail
- > Steel
- > Health
- > Professional Services
- > IT & Communications
- > Clean Energy
- > Mining
- > Oil, Gas & Energy
- > Transport
- > Water

Products & Services

- > Transport
- > Hydropower and energy
- > Water and environment
- > Urban and social development
- > Resources (Mining, Oil & Gas)
- > Industrial and manufacturing

Major Clients

- > AV Jennings
- > BHP Billiton
- > Bouygues Construction
- > Brisbane Airport
- > Brisbane City Council
- > Gold Coast City Council
- > Defence Housing Australia
- > Deloitte
- > Department of Defence
- > Department of Infrastructure
- > Glencore
- > Gippsland Water
- > Melbourne Water
- > Mirvac
- > Origin Energy
- > Peet
- > Places VIC
- > ACT Roads
- > PTV
- > VIC Roads
- > SA Department of Transport, Planning & Infrastructure
- > Sydney Trains
- > NSW Road Transport Authority
- > QLD Rail
- > ARTC
- > Melbourne Planning Authority
- > Theiss
- > John Holland
- > CIMIC
- > BMD
- > Lendlease
- > Fulton Hogan
- > McMahon Services
- > QLD Department of Transport and Main Roads
- > PowerWater Corporation
- > Seqwater
- > Seymour Whyte
- > Stockland
- > Sydney Airport
- > Sydney Water
- > Unitywater
- > NSW Water

Facilities

- > Equipment
- > GPS
- > Tablets
- > Remote Survey Equipment
- > Camera Traps
- > Call Recording Devices
- > Wildlife Trapping Equipment

Accreditations

- > Compliance - National Code of Practice for Construction Industry
- > BNG Conserve Contractor Accreditation Scheme
- > NSW Transport Asset Standards Authority - Authorised Engineering Organisation
- > PQC rating 3
- > Qld Department of Transport & Main Roads Prequalified Consultant

Previous Significant Projects

2018

Granite Hills Windfarm
\$75,000

Client: Akuo Energy

Granite Hills Wind Farm is located near Nimmitabel, NSW. It will comprise around 35 turbines, each with a nominal power of 3.45 MW. The project will represent a total clean energy capacity of 120.75 MW - enough to power 77,211 homes and save 313,974 tons of CO2 per year.

SMEC is conducting assessments of fauna habitats, mapping tree hollows, and surveying threatened biodiversity species such as owls and bats. SMEC is working with NSW OEH to assess and minimize ecological impacts.

2016

Barcaldine Solar Farm
\$300,000

Client: Elecnor

The Barcaldine Solar Farm is a 25 megawatt photovoltaic solar project located in the central western Queensland township of Barcaldine. The project has been developed over a number of years by Elecnor, with the assistance of SMEC as the Development Engineer. Elecnor engaged SMEC to undertake a range of roles for the project including flora and fauna survey, vegetation mapping and various Geotechnical works.

2015

Abbot Point TO EPC Project Management Support Services
\$2,000,000

Client: POSCO E&C Australia

SMEC provided design and project management support services to POSCO E&C for the design, procure and construct contract for the development of Abbot Point Terminal O to support Adani's Carmichael Mine project. SMEC's services include technical due diligence, onshore civil engineering, materials handling engineering, offshore civil and structural engineering, construction related technical support and approvals and environment services.

2017

Clare Solar Farm
\$1,000,000

Client: Fotowatio Renewable Ventures

FRV is the developer of a 136MW solar farm located at Clare near Townsville in north Queensland. The initial stage 1 is 100MW. The Solar farm is being constructed by Downer as an EPC contract.

SMEC is acting as FRV's Owners Engineer and the role includes the design review of EPC Contractor's designs, supervision during all stages of construction and assistance with regulatory and grid connection approvals.

2017

Murra Warra Windfarm
\$500,000

Client: I-cubed

Icubed have engaged SMEC to perform geotechnical investigation on their Murra Warra windfarm in Victoria, including laboratory testing, specialist resistivity and thermal testing.

2016

Moree Solar Farm
\$1,500,000

Client: Elecnor

This project involves the design, installation and testing of 70 MW of single axis tracking photovoltaic (PV). Moree solar farm is the first in Australia to use mechanical trackers to continually orient its solar panels with the sun. It will deliver clean electricity, avoiding 95,000 tonnes of greenhouse gas pollution annually and save approximately 165,000 megalitres of clean drinking water. SMEC provided geotechnical investigations, detailed design and project management services.

2015**North West Rail Link - SVC
\$1,000,000****Client: Impregilo/Salini JV**

Detailed design of the viaducts, bridges and associated civil works required for the North West Rail Link between Bella Vista and Cudgegong Road including:

- * viaducts and station platforms;
- * overbridges (3 in total)
- * drainage and civil works;
- * soil nail retaining walls;
- * mainline formation earthworks

2015**Sunshine Coast University Hospital
Infrastructure Delivery
\$1,000,000****Client: Stockland**

The new Sunshine Coast University Hospital precinct will contain the University Hospital, Kawana Private Hospital, a mix of commercial and residential development and multi-modal transport corridor (MMTC). SMEC was engaged as Principal Designer to undertake concept, preliminary, detail design, contract administration and construction surveillance for infrastructure delivery associated with the proposed transit precinct and surrounding residential and commercial development.

2014**Brisbane Airport Corporation Hotel Precinct
Infrastructure
\$500,000****Client: Brisbane Airport Corporation (BAC)**

BAC is constructing a 5 star hotel building, a 3.5-4 star hotel building & a conference centre at Brisbane Airport & are required to provide infrastructure services to the development boundary & modification of Dryandra Rd. This is to allow for vehicle access to the hotel and a new pedestrian access from level 3 Multi-Level Car Park with a walkway to hotel boundary. SMEC was responsible for design & tender & construction documentation for all lead-in infrastructure servicing the development site.

2015**Gosford Passing Loops
\$8,000,000****Client: Downer EDI Works & Robson Civil**

Detailed design of two new electrified passing loops approximately 2km long either side of the existing Up and Down Main between Gosford and Narrara including:

- * Structural design for six new rail bridge structures and 2.5km of retaining walls
- * Drainage, earthworks, flood modelling
- * Geotechnical investigations and analysis

2015**Rail Revitalisation Electrification Project
\$400,000,000****Client: Department of Transport Energy and
Infrastructure (DTEI)**

The scope of the Rail Revitalisation Electrification Project is to design the infrastructure required to introduce electric vehicles to service the existing Adelaide metropolitan passenger rail network (AMPRN).

SMEC provided specialist overhead wiring systems design services including: provision of advice on scope, value-for-money and risk; review and comment on OHW standards, specifications and designs produced by the contractor; construction surveillance and acceptance.

2015**WestConnex Stage 1A
\$7,000,000****Client: Rizzani de Eccher Leighton Joint Venture**

The M4 Widening Stage 1A project comprises the first stage in the delivery of WestConnex. It includes widening and upgrading approximately 7.5 kilometres of the M4 Motorway generally between Pitt Street, Parramatta and Homebush Bay Drive, Homebush. SMEC is working with the Rizzani De Eccher and Leighton Contractors JV to deliver the major alignment, pavement and drainage/hydrology works as well as providing ITS, lighting, durability and other inputs for Stage 1A of the Westconnex scheme.

2014

**Robinson Road Open Level Crossing
Replacement Project
\$4,000,000**

Client: Brisbane City Council

Brisbane City Council partnered with BMD Constructions and SMEC to form the Geebung Overpass (GO) Alliance to deliver this project, comprising the construction of a new road-over-rail overpass connecting Robinson Rd East & Robinson Rd West. A key achievement for the project was the integrating of urban and landscape design features into the project to enhance the appearance of the area and benefit the community. The project was delivered 3 months ahead of schedule.

2013

**Mitcham Rd and Rooks Rd Rail Grade Separation
\$500,000**

Client: Boulderstone

Tender design of the grade separation of Mitcham and Rooks roads including:

- Realignment and construction of two new tracks to the south of the existing tracks within the existing rail corridor; and
- Construction of a new Premium Station.

2012

**Regional Rail Link - WPB
\$2,000,000**

Client: Leighton Contractors/Downer EDI

Tender design for Regional Rail Link Work Package B in association with Leighton Contractors, Downer EDI & Mott MacDonald. SMEC's scope included: tender design management, civil works and structural bridge design, materials engineering, hydrology and drainage, geotechnical, environmental and landscape architectural design. SMEC also contributed to the track, overhead wiring and electrical HV/LV designs.

2014

**Queensland Curtis Liquid Natural Gas (QCLNG)
\$500,000**

Client: QGC

Provision of resource, seconded as Authorities Engineer for the construction of the 540km long, 42" Export Pipelines (Gas Collection Header, Export and Narrows Crossing) of the QCLNG project, providing an oversight of all road use (under Road Infrastructure Agreements) road crossings (Pipeline and Fibre Optic Cable) and logistics by QGC's appointed EPC contractor MCJV.

2013

**Gawler Line Electrification Provision of
Technical Services
\$100,000,000**

**Client: Department of Planning, Transport and
Infrastructure (DPTI)**

As part of the Adelaide Metropolitan Passenger Rail Network upgrade (AMPRN) project, the Gawler line is to be electrified. SMEC were engaged to provide technical expertise and advice on behalf of DPTI in the review of contractor submissions and to highlight potential issues.

Scope included:

- Development of S&TR
- Development of Maintenance contract
- Review and update of existing OHWS system design
- Review of Tender submissions
- Preparation of technical reports

2011

**Wyaralong Dam
\$5,000,000**

Client: Queensland Water Infrastructure

Wyaralong Dam is one of a number of projects commenced in SE Qld as a drought mitigation measure and to address the ongoing growth in the region. Located on Teviot Brook, east of Beaudesert, the dam will provide approx. 21,000 ML/pa of water for the region. SMEC was part of the Alliance delivering the project, providing geotechnical investigations, engineering design & documentation, environmental monitoring & development of specifications, dam safety & operations documentation.



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