



Keppel Prince

Keppel Prince Engineering Pty Ltd

Building a sustainable future for all
Company Overview | April 2023

KPE works with Australia's leading infrastructure providers to build enduring infrastructure with a particular focus on the fabrication of complex industrial structures and equipment

About KPE

Keppel Prince Engineering (KPE) is a Victorian firm offering tailored end-to-end solutions across a broad range of industries. Founded in 1968 and located in Portland, South West Victoria, the firm is a subsidiary of global parent, Keppel Corporation.

Today, KPE has developed its business across multiple sectors and service offerings, operating primarily out of three facilities in Portland and employing a talented team of some 350 engineers, project managers, technicians, trades people, apprentices and support staff.

KPE is known for the quality of its work and ability to deliver large scale projects through its extensive facilities, capabilities and expertise of its local people.



Components are pre-fabricated at KPE's Portland facilities, delivering a tailored solution that is installed on site

	Darts Road	Victoria Parade	School Road
Buildings	15,000m ²	5,000m ²	2,724m ²
Land	206,400m ²	9,000m ²	9,300m ²

Key sectors

- Transport
- Telecommunications
- Sports & Events
- Renewables
- Oil and Gas
- Emerging Markets (e.g. Defence)

Key services

- Construction
- Fabrication
- Industrial Blasting & Coatings
- Fitting & Machining
- Maintenance
- Mobile Cranes
- Quality & Testing
- Renewables



KPE works alongside some of Australia's leading infrastructure providers across a wide range of sectors



KPE Capabilities

KPE's range of inhouse capabilities and state of the art facilities make it the leading service provider for end to end engineering solutions across a broad range of sectors



CONSTRUCTION

KPE has a proven track record across many industries and disciplines for superior quality control and efficient project delivery

KPE offers complete construction solutions including:

- Engineering, design, supply, fabrication, assembly and installation
- mobile crane and operators for hire
- transport logistics
- storage at the Portland site
- project management

FABRICATION

With a highly skilled crew and three state-of-the-art facilities KPE offers a wide range of fabrication services

Fabrication services include:

- plate rolling
- heavy fabrication such as steel beams, pressure piping and tower structures, all types of welding
- manufacture and assembly of customised components e.g. stairs, ladders, platforms, walkways, electrical
- emission control equipment
- project management

INDUSTRIAL BLASTING AND COATINGS

KPE offer tailored services where results meet the toughest quality, environmental and safety standards

This includes:

- grit blasting, coating, welding, profile cutting and curing facilities
- range of coatings from metalizing, zinc primers, mastics to polyurethane top coats and anti graffiti coatings

FITTING AND MACHINING ACTIVITIES

KPE has a fully furnished machine shop with CNC lathe and milling capability

This facility is manned by experienced well trained staff completing tasks including:

- complete gearbox and machine overhauls
- repetitive machining activities.
- solutions from delicate components through to high voltage switch gear, heavy duty machining, field maintenance and shutdowns

MAINTENANCE

KPE's range of onsite and offsite maintenance services enables it to identify and fix issues before they become disruptive

KPE provides engineering solutions for mechanical and electrical maintenance tasks, production services and capital projects, from planning through to delivery. This includes:

- outsourcing your entire maintenance function;
- ongoing preventative maintenance services
- ad-hoc or specialised assistance personnel

MOBILE CRANES

KPE's Crane Division is one of Australia's most comprehensive crane fleets.

The crane fleet consists of:

- 12 tonne
- 20 tonne
- 55 tonne
- 100 tonne; and
- 200 tonne cranes

Cranes, attachments and lifts are inspected and conform to all safety regulations

QUALITY AND TESTING

KPE's Professional team of WTIA & IIW Inspectors & Supervisors are well equipped & experienced to help you achieve total plant and system integrity

This includes:

- welding Inspection & Supervision,
- non-destructive testing (NDT)
- coatings Inspection Services

The team includes Certified:

- AIINDT Level III (The Australian Institute for NDT) Technicians; and
- NACE (National Association of Corrosion Engineers) Level 1 & 2 Inspectors

RENEWABLES

KPE is Australia's largest producer of wind towers (and only domestic producer in mainland Australia)

Wind towers:

- manufacture, blast, paint, and fit-out, wind towers with locally made BlueScope steel to exact European standards

Solar:

- supply and install high quality components for commercial systems up to 360KW and residential systems up to 15KW as well as battery storage and off-grid solutions

KPE Sector Offering

KPE has delivered on a number of high-profile infrastructure projects working alongside blue-chip EPC contractors and government departments

Complete engineering, construction and installation work on roads, railways and bridges.

Projects

- Citylink Widening
- Metro Tunnel Props
- Clifton Hill Rail Bridge

Recently Awarded

- Level Crossing Removal (Southern Alliance)



TRANSPORT – ROADS & RAIL



EMERGING MARKETS

Capability in the deployment of robot systems to develop repeatable walkways and similar infrastructure. Capability in transmission build through monopole structures as well as other market opportunities such as Defence, through contribution to heavy fabricated structures or pipework (i.e. ship modules, submarines or land vehicles).

Experience in fabrication of the entire structural steel package for a new stadium, manufacturing light towers, full assembly of the roof as well as supply of cranes and labour to erect the completed structural package.

Projects

- Hisense Arena
- GMHBA (Geelong) Stadium Lights



SPORTS & EVENTS



TELECOMMUNICATIONS

Experience working with Telstra, Downer and other tier one firms on the component supply and infrastructure for major telecommunications networks.

Projects

- Telstra – Allambee, Yarragon South
- Downer – Midland Highway
- Downer – Mount Alfred

Experience in offshore engineering for the oil and gas industry as well as piping including manufacture, painting and supply of steel piping.

Projects

- John Holland: Sewer Pipe Melbourne
- Woodside: Oil rig repairs, Port of Portland
- Bechtel: Western Underground Gas Storage Facility



PIPELINES – OIL & GAS, SEWERAGE



RENEWABLES

Australia's largest producer of wind towers (and only domestic producer in mainland Australia) and Western Victoria's largest supplier of commercial and residential solar systems

Projects

- Vestas – Dundonnell Wind Farm
- Goldwind – Stockyard Hill Wind Farm
- GE – Ararat Wind Farm
- Barwon Health – MaxKellar Centre Rooftop Solar

Value Proposition

KPE has the personal service and practical attitude of a local Victorian organisation, with the deep resources, reliability and expertise of a global leader

Key Value Add

What does this mean to you?

1

KPE can deliver cost savings through its **early, actionable insights** in the design phase as well as **inhouse services** and **tailored, end-to-end solutions** in bespoke industrial structures

- KPE provides specialised expertise in complex industrial structures such as steel beams, pressure piping and tower structures
- KPE focus on building **long term relationships** through open and honest communication
- Through their **expertise, processes and systems**, KPE are able to **optimise projects** at an early stage and deliver projects **on brief, on time and within budget**
- Their inhouse services provide key value-add for projects, including:
 - large premises to enable storage on site
 - mobile crane business to help transport (load and unload) structures

2

KPE offers the Victorian Government a **de-risked solution** for engineering services during the Victorian infrastructure boom and Covid-19, through its local workforce and supply chain, as well as **partnerships** with blue chip EPCs in Victoria

- With Covid-19 impacting both interstate and international supply of materials and labour, KPE offers you a local solution, which can reduce the risk of project delays. Specifically:
 - **High quality staff:** KPE have a talented team of 350 staff and have committed to retaining all employees
 - **High quality local inputs:** Materials are sourced locally, meaning less risk of delay
 - **High quality clientele:** KPE's client base is predominantly government project authorities and top tier contractors
- As Victoria has moved into a period of unprecedented infrastructure construction activity, KPE offers a solution to the current shortage of capacity, skills and specialised resources to deliver new projects.

3

As a regional based supplier, KPE directly provides local jobs in support of local communities and industry development, in alignment with the Victorian Government's **Local Jobs First Policy**

- Local Jobs First Policy is mandatory for projects with a value over \$1m in regional Victoria, and \$3m in metro Melbourne
- KPE can deliver on this policy in the project tendering and project development phases by:
 - Preparing **Local Industry Development Plans** and responding to **Industry Development Criteria**
 - Returning a **low risk profile** under the Industry Capability Network (ICN) Local Jobs First risk assessments, and **working with ICN** Industry Advisors in the preparation of proponent bidding documents
 - Retaining relevant documents, monitoring progress and reporting on compliance with the Local Jobs First Policy, and following guidelines for **Suppliers**

People and Portland

KPE place priority on the wellbeing of its employees and community, which go hand in hand with ensuring its success

Members of the KPE tower fit-out team



KPE Annual Family Day for employees



KPE Management Team at Victorian Manufacturing Awards Night (2018)



Kang-o-Meertek Art Project



KPE contributed their cranes to assist in erecting a boulder at Whalers lookout in Portland to commemorate the clans of Dhauward Wurrung and the first interactions of indigenous Australians and settlers in Western Victoria.

Glenelg Shire Christmas lights



Portland Foreshore. Each year KPE's cranes are used to place the town's Christmas lights into the Norfolk pines along Bentinck St.

1 Highly skilled staff known for their focus on quality

KPE's employees boast a diverse range of capability offerings across various sectors, through a mix of engineers, project managers, technicians, trades people, apprentices and support staff.

Quality focus: The foundation of KPE's success is their exceptional people, production capability, inspection and testing facilities and a "can-do" approach which all ensure a total solution to customer needs and expectations.

2 A local, loyal workforce

As a regional based supplier, KPE directly provides local jobs in support of local communities and industry development, in alignment with the **Local Jobs First Policy**. Its **350 employees** include 15 Apprentices and a Graduate Engineer, and have an **average service length of over 10 years**. This provides KPE with the capacity and ability to ramp up quickly to support large infrastructure projects.

3 Significant contribution to Portland's wider community

As a large employer in a regional city, KPE knows and understands its obligations not only to its employees but the wider community as well. During a business downturn KPE have on multiple occasions placed the potential impact to its employees and community at a higher priority than profit.

Key local community involvements include:

- **Future Leaders in Industry Program:** Mentoring local students for six weeks per year
- **United Way:** Sponsorship to fund over 40 different local health and human care agencies
- **Sport:** Major sponsors of Portland Football Netball Club, Portland Golf Club and others
- **Schools:** Sponsoring local schools
- **Charities:** Supporting charities, notably 'Relay for Life' to support Cancer Council Victoria
- **Other:** Ventures to support the community in different ways.

Case Study 1

Level Crossing Removal Project (2020 – Recently Awarded)

Level Crossing Removal Project Edithvale level crossing



Southern Program Alliance

Project description and role

- KPE have been awarded the contract for the **supply of Permanent Props** associated with the Level crossing upgrades on the Melbourne – Frankston line. There are 3 sites involved: Edithvale, Chelsea and Bonbeach.
- The Props are to act as supports for the tunnel walls in the lowered area of rail track. There are 58 Props in all with a total weight of 163 Tonnes.

Key value delivered prior to commencement

- KPE has already shown its **expertise in the design** phase of the project
- Originally, the preference was to use steel pipe, however, the Project has a target of 100% Australian permanent steel content and the pipe diameter required was not available in Australia.
- KPE optimised the project through suggesting a change in design to a fabricated square box section that was both practical and would satisfy the **Australian content requirements**.

Level Crossing Removal Project: Edithvale, Chelsea and Bonbeach stations



*Photos have been sourced from Level Crossing Removal Project website: <https://levelcrossings.vic.gov.au/>

Case Study 2

Stockyard Hill (2020)



Goldwind

Project description and role

- Stockyard Hill Wind Farm is located 35km west of Ballarat in Victoria's central highlands. The project consists of 149 Goldwind turbines which can produce up to 530MW of power, enough for 425,000 homes.
- KPE were contracted to manufacture 140 tower sections. The work was completed by 150 employees who contributed 85,000 man hours in the manufacture of the tower sections.
- Tower manufacture at KPE was completed in June of 2020.

Key value delivered

- **Supporting local jobs and industry expertise while providing significant cost savings:** KPE worked with Goldwind and their overseas suppliers to formulate supply of a "hybrid tower" consisting of KPE and overseas supplied sections as the Project was completed outside of any mandated local content requirements. This methodology provided a lower cost option whilst ensuring a solid pipeline of locally manufactured tower sections.



Case Study 3

Budj-Bim World Heritage Site – Lake Condah Keeping Place Administration Centre (2020)



Gunditj Mirring Traditional Owners Aboriginal Corporation (GMTOAC)

Project description and role

- KPE designed and installed a 90kW ground mounted solar array and 140kWh battery system to take the administration centre and museum completely off-grid.
- Capable of delivering ~60kW of peak demand to the building during the day as well as charging the 140kWh battery bank to power the air handling system for the museum space 24/7 through the year.
- The Museum Space will be required to re-house the many Gunditj artifacts and cultural remains that currently reside in museums across Australia once they are brought back on-country.

Key value delivered

- Faced with estimates upwards of \$300,000 to extend 3 phase power into the site, the GMTOAC approached KPE to provide a solar/battery Electricity Supply System that would take the facility completely off-grid.
- KPE trained members of the Gunditj Mirring community to install the ground mounted solar array with a view to using their skills on other large solar systems across the South West Victoria region in the future.

Case Study 4

Carnarvon, WA (2018)



Telstra

Project description and role

- Telstra approached KPE in early 2017 requesting detail mast design and construction drawings.
- Fabrication commenced late 2017 with all steelwork being delivered to site late 2018.
- KPE supplied and delivered the steel masts including all material and strand into multiple sites in Carnarvon, WA.
- Project included 5 x 1250 face width steel masts, each 60m tall.
- The project required around 6,300 direct workshop hours to fabricate, surface treat and deliver.

Key value delivered

- KPE showed their expertise in end-to-end solutions:
 - KPE delivered front-end detailed mast design and construction drawings; followed by
 - fabrication, logistics and delivery of masts from Portland to the sites in Western Australia; and lastly
 - long term storage of the masts – one of which is still in storage with KPE



Case Study 5

CityLink Widening Gantries (2017)



Lendlease

Project description and role

- Keppel Prince was awarded fabrication of 14 gantries in June 2017, which form part of the Citylink Tullamarine Freeway Widening - Bulla Road to Melbourne Airport project.
- This project entails an 8km section of freeway, which encompasses new traffic lanes and enhancements to key interchanges.
- The first delivery took place October 2017 and completion took place in March 2018.

Key value delivered

- KPE provided value-add through their large manufacturing capacity and ability to adjust the manufacturing schedule of gantries as site requirements changed*.

* The incident involving a sign falling was from another suppliers gantry and did not involve KPE

Case Study 6

Simmonds (GMHBA) Stadium: Light Towers (2013)



Kane Constructions

Project description and role

- KPE provided services to manufacture four light towers for Simmonds Stadium in Geelong, Victoria.
- The height of each tower is 73 metres at a weight of 158 tonnes, which includes lights and platforms. Each tower is made up of 105 lights.
- Local Inputs: This project satisfied local content requirements through 100% Australian steel plate inputs.

Key value delivered

- Keppel Prince worked in consultation with Kane to re-design the light towers from a lattice steel type structure to a design based around a wind tower structure. **The new design provided major cost-savings and a more aesthetically pleasing product.**

Testimonial

“We are pleased to acknowledge our appreciation of you [Keppel Prince] and your team's efforts and commitment, and the great working relationships your guys had with Kane. The level of co-operation and professionalism has often been commented on and was very much appreciated by our staff. You should be as proud as we are of your skills, contribution, and the result.”

– Kane Constructions

Case Study 7

Fast Rail (2005)



Thiess ALSTOM JV

Project description and role

- Keppel Prince Engineering played a key role in Victoria's largest upgrade of regional rail in the last 120 years. The Regional Fast Rail project involved the upgrading of the Ballarat, Bendigo, Geelong and Latrobe Valley lines.
- Keppel Prince were contracted by Thiess Pty Ltd and ALSTOM Australia to supply and deliver the steel pylons for the two bridges over the Moorabool River and Lal Lal Creek.
- Eight pylons were manufactured for the 275-metre-long Moorabool River bridge, ranging from 5.5 metres to 23 metres in height. Ten pylons were manufactured for the 355-metre-long bridge at Lal Lal Creek, ranging from 10.6 metres to 33.6 metres high.

Key value delivered

- The Thiess ALSTOM Joint Venture nominated steel pylons instead of concrete because of the benefits they offered in terms of erection and ease of construction.
- In contrast to concrete, a steel pier can be erected in a few hours, with no formwork, shuttering, or scaffolding. The use of steel, in this case, was a quicker erection method, minimising time on site, exposure to bad weather and therefore risk.
- The three largest pylons supplied and delivered by KPE each weighed approximately 77 tonnes and were the heaviest products ever produced in the workshop at that time.

Case Study 8

Hisense Arena (2001)



Thiess Contractors

Project description and role

- KPE fabricated the entire structural steel package (approximately 2700 tonne) for Hisense Arena, which is now known as Melbourne Arena
- Works included:
 - Supply of cranes and labour to erect the completed structural package
 - Full assembly of the the retractable roof sections on the old Scott's oval beside the stadium
- The lifting of the roof section into place won the lift of the year in 2001.

Key value delivered

- KPE offered a one stop shop leveraging its ability to fabricate, transport and install the large roof sections.
- KPE received recognition from tier 1 contractors, Thiess and Leighton's, that KPE had the capability and skill to complete fabrication work in metropolitan Melbourne to the highest standard.

Thank you for your consideration

For any queries, please contact Dan McKinna or Jeff Wanliss



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Victorian Awards for Excellence

This announcement appears as a matter of record only.

South West TAFE

2019 Trades Awards

WINNER

Industry Partnership Award



This announcement appears as a matter of record only.

Victorian Government Award

2018 Victorian Manufacturing Hall of Fame Award

WINNER

High Growth Sector New Energy Technologies Recognition of Manufacturing Excellence



This announcement appears as a matter of record only.

Keppel Group Safety Convention

2012 Safety Innovation Projects

SILVER AWARD



This announcement appears as a matter of record only.

Powercor South West Regional

2004 Business Awards

WINNER

Regional Business Achiever



This announcement appears as a matter of record only.

Powercor Australia / Glenelg Shire Council

2003 Business Achievement Awards

WINNER

Manufacturing / Business Innovation



This announcement appears as a matter of record only.

Telstra Vendor Award 2002

2002 Business Awards

WINNER

Australian Regional Supplier

