

# Opportunities for local businesses

Australian Industrial Power is proposing to develop the Port Kembla Power Station – Australia’s largest hydrogen capable power station which will help reimagine our energy future as we transition from a fossil fuel dependent electricity grid to a zero-emissions electricity grid.

While the project is at an early planning stage, we are committed to maximising our local sourcing strategy whenever feasible. As such, we are open to local suppliers registering their interest and explaining their capabilities.

## Opportunities for Local Businesses

The project will be delivered in **three major packages** of work, these are:

**Package 1: Power Station**

**Package 2: Underground HV Transmission Cable**

**Package 3: Aboveground HV Transmission Line & Switching**

### Package 1: Power Station

The scope for this project is in two phases:

**1. Early Contractor Involvement (ECI) Phase** – The Contractor will develop the power station design to a level of detail to allow submission of a lump sum fixed price for the detailed design, construction and commissioning of the power station.

The power station includes the following main infrastructure:

- Gas connection to the LNG terminal, including:
  - Connection pipeline from the floating storage and regasification unit (FSRU) high pressure manifold;
  - Gas receiving station including inlet filtration, custody transfer metering, gas heating pressure regulation and over-pressure protection and filter coalescer;
  - Off-take connection for future hydrogen blending; and
  - Cross link from the lateral pipeline from FSRU to the Jemena Eastern Gas Pipeline to allow back-up gas supply in reverse flow mode from the lateral. The power station includes the following main infrastructure:

**2. Design and Construct (D&C) Phase** – The Contractor will design, supply, construct, commission and test the complete power station to meet the required performance.

This will include the following main infrastructure:

- Open cycle gas turbine with a nominal output of 435MW net, moving to a multi shaft combined cycle gas turbine with a nominal output of 635 MW net (Power Island), including gas turbine, heat recovery steam generator, steam turbine. Generator, isolated phase bus, generator circuit breaker, and generator step-up transformer;
- Seawater intake and outfall;
- Electrical building and auxiliary power infrastructure;
- Balance of plant mechanical and electrical infrastructure;
- Water treatment plant, storage tanks and wastewater system;
- Administration and control building;
- Warehouse and workshop; and
- All roads, parking, and pavements within the site boundary.

*Note that the above list is not exhaustive but is intended to provide a high-level overview of the power station package.*

## Package 2: Underground HV Transmission Cable

The scope for this package is in two phases:

- 1. Early Contractor Involvement (ECI) Phase** – The Contractor will develop the 330 kV Underground HV Transmission line. Design to a level of detail to allow submission of a lump sum fixed price for the detailed design, construction and commissioning of the 330 kV Underground HV Transmission cable.
- 2. Design and Construct (D&C) Phase** – The Contractor will design, supply, construct, commission and test the complete 330 kV Underground HV Transmission line to meet the required performance.

The HV Transmission Line Package contains the following parts:

- Underground HV Transmission Cable; and
- Transmission Horizontal Direction Drill (Harbour Crossing).

### What opportunities would be available for local businesses?

This project is in the early stages of development. Local businesses and service providers wishing to register their interest in the project can do so via the details listed below. Once tenders have been awarded, further opportunities for local businesses may be available.

### How do I register my interest?

Visit our website to register your interest and briefly tell us about your business. We will then provide you with regular updates on opportunities to get involved with the project.

To stay up to date with the project, you can:

Visit the project webpage:  
[squadronenergy.com/port-kembla-energy-hub](https://squadronenergy.com/port-kembla-energy-hub)

Email us at: [community.input@ghd.com](mailto:community.input@ghd.com)

Call us on: 1800 810 680

## Package 3: Aboveground HV Transmission Line & Switching Station

The scope for this project is in two phases:

- 1. Early Contractor Involvement (ECI) Phase** – The Contractor will develop the Switching Station Power Station, Switchyard and Aerial HV Transmission Line design to a level of detail to allow submission of a lump sum fixed price for the detailed design, construction and commissioning of the package.
- 2. Design and Construct (D&C) Phase** – The Contractor will design, supply, construct, commission, and test the complete Switching Station to meet the required performance.

The scope of the package includes but is not limited to:

- Switchyard connecting to the underground; transmission cable;
- Aerial HV Transmission Line;
- All electrical equipment and plant including circuit breakers, disconnectors, current transformers, capacitor voltage transformers, power voltage transformers, surge arresters;
- Gantries, busbars, bus work, bus support structures, station post insulators, equipment support structures, lighting posts, lightning masts, and foundations;
- Electrical cabling, marshalling cubicles, control cubicles, kiosks, and auxiliaries;
- Droppers, conductors, clamps, connections, fittings;
- Cable pits, conduits and trenches;
- Secondary systems including circuit breakers, disconnectors, current transformers, capacitor voltage transformers, power voltage transformers, surge arresters;
- Auxiliary AC systems, DC systems, fire systems, security systems, building lighting and power, and switchyard lighting and power;
- Earth grid, bonding of structures and equipment, and lightning protection system;
- Buildings, roads, hardstand areas, switchyard, stormwater, sub-soil drainage, and fencing;
- Building services including electrical, mechanical, fire, security, hydraulics, water and sewerage; and
- Site earthworks and civil.