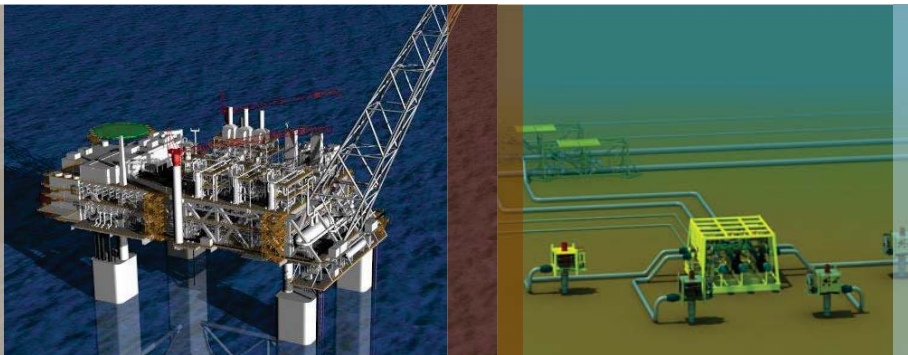




# Wheatstone Upstream



FAR LEFT: The Wheatstone Project processing platform.

LEFT: Subsea wells clustered around a manifold and connected to the flowlines.

The Upstream scope includes the design and construction of the offshore facilities, which will supply dehydrated gas and dewatered condensate to the onshore facilities at Ashburton North.

### Scope

The offshore facilities will gather the gas and condensate from the wells on the seabed and deliver it to the onshore gas processing plant. The offshore scope has three sections:

- well infrastructure and subsea installations
- gas processing platform, divided into the substructure and the topsides
- export trunkline that will deliver the gas onshore for further processing at Ashburton North.

### Subsea installations

Subsea manifolds will be installed by heavy-lift vessels at depths ranging from 100m-260m across the gas fields.

Drilling rigs will install subsea trees clustered around the manifolds from which the development wells will be drilled. Each development well will be drilled to a depth of approximately 3km.

Pipe-laying vessels will then install a system of corrosion resistant subsea pipelines that will tie the wells back to the processing platform.

### Processing Platform

The Wheatstone processing platform will be Australia's largest offshore facility.

The platform will be located in 73m of water, with its steel gravity-based substructure measuring 100m high.

The topsides weigh 35,000 tonnes and have been designed to withstand 12 storey-high cyclonic waves. Once the topsides are installed on the substructure, they will be about 28m above the sea level.

The platform topsides have a total deck area of 20,000 square metres and includes:

- inlet facilities to receive the incoming gas and condensate production
- separation and cooling equipment to separate the gas from the liquids (condensate and water)
- compression facilities to bring the gas to the required export pressure
- dehydration equipment to dry the gas and de-water the condensate for transport to shore
- export facilities to tie-in the export trunkline transporting gas to the Ashburton North plant site.

To support the processing facilities, the platform also includes:

- living quarter module to house up to 100 people
- waste treatment facilities
- power generation system with a total generation capacity of 27 mega watts
- safety control systems.



### Export trunkline

At 112 centimetres (44 inches) in diameter, the trunkline from the platform to the shore will be Australia's largest diameter gas pipeline. It will span about 225km from the processing platform to the Ashburton North plant site. The total weight of the line pipe required is about 200,000 tonnes.

The trunkline will cross the shore via a method known as micro-tunnelling. This involves drilling a horizontal tunnel about 3m in diameter for 2km under the shore crossing to avoid disturbing the coastline.

Micro-tunnelling will avoid impacting mangroves at the site of the crossing, reducing the impact on the environment.

### Gas fields

The Wheatstone Project is Australia's first third party natural gas hub.

The first two LNG trains will be supplied with 80 percent of gas from the Chevron-operated Wheatstone and Iago fields.

The remaining 20 percent of gas will come from Apache and KUFPEC's Julimar and Brunello fields.

ABOVE: Chevron will use micro-tunnelling for 2km under the shore crossing to avoid disturbing the coastline at Ashburton North.

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