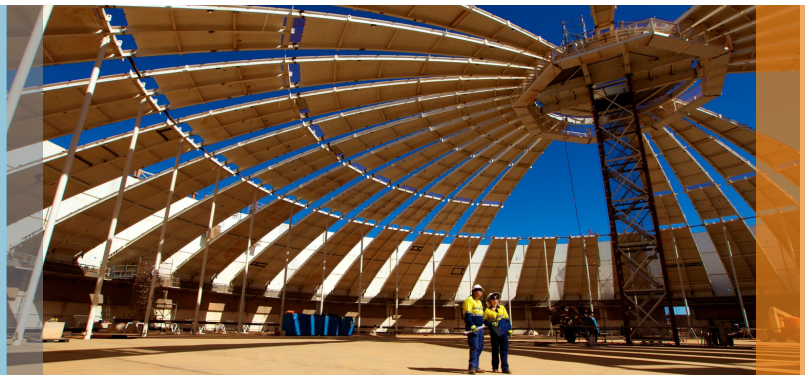
The Gorgon Project



The Gorgon Project is located on Barrow Island around 60 kilometres off the north west coast of WA. The island has been a Class A Nature Reserve since 1910 and is home to Australia's largest onshore oilfield, which has been operating since 1967.

The Gorgon Project involves the construction of a three-train, 15 million tonnes per year Liquefied Natural Gas (LNG) facility and a 300 TJ per day domestic gas plant. The domgas component of the Project will increase domestic gas supplies into WA by about one third. Plant startup is planned for late 2014, leading to the first LNG cargo in the first quarter 2015.

The Gorgon Project will use 300 hectares of uncleared land on Barrow, which represents 1.3% of the island's land area. The Gorgon Project is being undertaken in accordance with strict environmental and quarantine standards to preserve the island's unique ecology. The quarantine management effort is the world's biggest non-government quarantine initiative.

Upstream Joint Venture

The Gorgon Upstream Joint Venture is an unincorporated joint venture between Technip and JP Kenny to provide Engineering, Procurement and Construction Management (EPCM) services for all upstream facilities necessary to produce gas from the gas fields via subsea infrastructure and subsea and onshore pipelines back to the shore-based LNG plant on Barrow Island.

The field development plans centre on the use of subsea completions at the Gorgon and Jansz-Io fields and tied-back to the onshore LNG plant via a system of pipelines and control umbilicals. These subsea production centres feed the LNG plant on Barrow Island via independent 30 inch multiphase flowlines.

Upstream Scope of Work

Gorgon Field

- 2 production centres in the initial development, Manifold 1 (provision for up to 6 subsea wells initially) and Manifold 2 (provision for up to 4 subsea wells).
- 65 km of 30 inch Corrosion Resistant Alloy (CRA) clad export pipeline to shore.
- 12 km onshore line to LNG plant.
- 65 km parallel umbilical, mono-ethylene glycol (MEG) and service pipelines.
- 6 km infield flowlines between Manifold 1 and Manifold 2.
- Additional manifolds will follow throughout the field life to maintain production levels.

Jansz-Io Field

- 1 production centre in the initial development with provision for up to 6 subsea wells.
- 180 km of 30 inch Carbon Steel Pipeline.
- 12 km onshore line to LNG plant.
- 180 km parallel umbilical, MEG and service pipelines.
- An additional manifold that will follow later in the field life to maintain production levels.

Operated by **Chevron Australia** in joint venture with

ExxonMobil

Osaka Gas | Tokyo Gas | Chubu Electric Power

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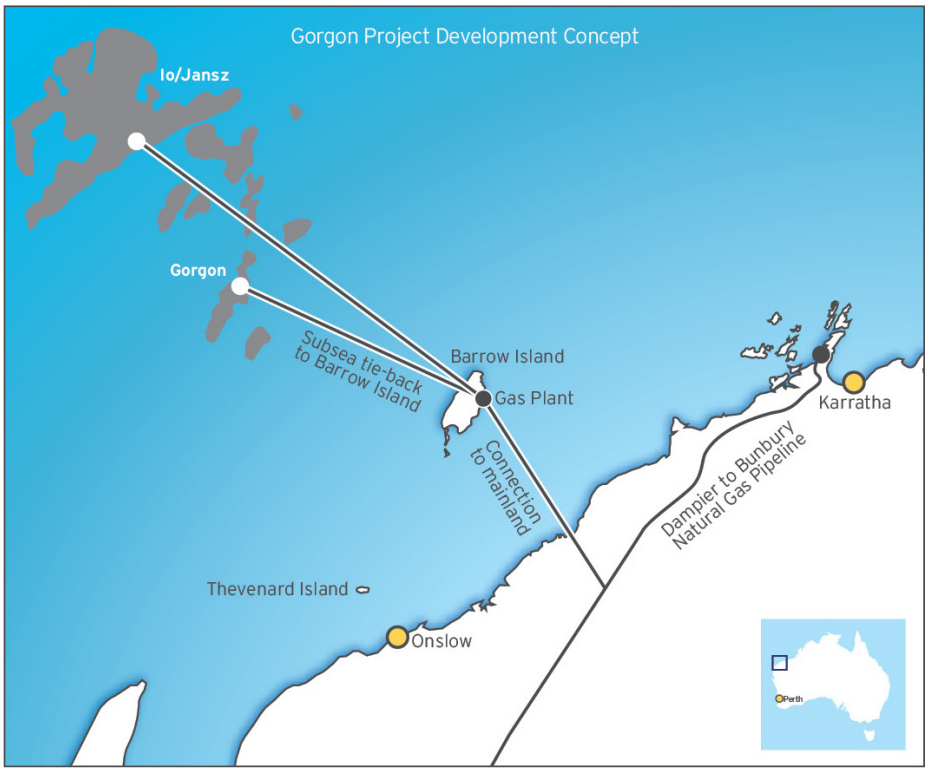
Downstream Joint Venture

Chevron Australia and its joint venture participants have contracted the Kellogg Joint Venture - Gorgon (KJVG) to design the LNG plant, the domestic gas plant and related infrastructure, to procure all the necessary equipment and materials, and to manage the contractors and subcontractors during project construction and commissioning. KJVG is a joint venture between Kellogg Brown & Root, JGC Corporation, Hatch and Clough.

Downstream Scope of Work

- 3 x 5 million tonnes per annum LNG processing trains
- 2 x 180,000 m^3 LNG Storage tanks
- 4 x 38,000 m^3 Condensate Tanks
- 300 TJ/day Domestic Gas processing plant
- 5 x 118 MW gas-turbine power generation units
- 8.4 km CO_2 pipeline to injection well sites
- 2.1 km long Materials Offloading Facility (MOF) & Causeway
- 2.1 km long LNG Jetty, with two loading berths
- Operations and Maintenance Buildings
- Operations Accommodations
- Construction Accommodations
- Temporary construction facilities
- WAPET Landing development
- BWI Airport and road upgrades.

The Gorgon Project is operated by Chevron Australia Pty Ltd (Chevron Australia), an Australian subsidiary of Chevron Corporation, and is owned by a joint venture comprising Chevron Australia (approximately 47 per cent) and Australian subsidiaries of ExxonMobil (25 per cent), Shell (25 per cent), Osaka Gas (1.25 per cent), Tokyo Gas (one per cent) and Chubu Electric Company (0.417 per cent).



For more information on the Gorgon Project:

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