

## Gorgon Upstream Joint Venture



### Scope of Work

The Gorgon Upstream Joint Venture, an unincorporated joint venture between Technip and JP Kenny, is performing Front End Engineering and Design (FEED) and Engineering, Procurement and Construction Management (EPCM) services for all upstream facilities necessary to produce gas from the Gorgon Project 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 two discrete fields (Gorgon and Jansz) 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.

The main pipeline corridors from each field will contain the production flowline plus a mono-ethylene glycol pipeline for hydrate inhibition and a service pipeline for depressurisation. Each pipeline corridor will also have an umbilical used to convey electric and hydraulic power, signals and additional chemicals to the subsea facilities.

The control system will be electrohydraulic multiplexed with primary fibre optic communications from a dedicated control system located in the LNG plant. In addition to the upstream facilities, the GUJV scope of work is to assess a domestic gas pipeline link to the mainland to enable the Gorgon Project to supply the existing domestic gas transmission network.

For more information about the Gorgon Project contact  
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### A summary of the upstream facilities required offshore and on Barrow Island are:

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

#### Jansz Field

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

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