

## OVERVIEW

February 2022



# SCARBOROUGH

The Scarborough gas resource is located in the Carnarvon Basin, approximately 375 km west-north-west of the Burrup Peninsula in Western Australia.

The Scarborough gas resource is part of the Greater Scarborough gas fields which are estimated to hold 13.0 Tcf (2C, 100%) of dry gas. The Greater Scarborough gas fields include Thebe (1.4 Tcf, 2C, 100%), Jupiter (0.5 Tcf, 2C, 100%) and Scarborough (11.1 Tcf, 2C, 100%).

The relevant offshore petroleum titles are all located in Commonwealth waters. Woodside Energy Scarborough Pty Ltd holds a 73.5% interest in WA-61-L and WA-62-L, and a 50% interest in WA-63-R and WA-61-R, covering the Scarborough, North Scarborough, Thebe and Jupiter gas fields respectively. BHP Petroleum (Australia) Pty Ltd is Woodside's Scarborough Joint Venture participant (Refer Table 1).

Woodside will develop the Scarborough gas resource through new offshore facilities connected by an approximately 430 km pipeline to a second LNG train (Pluto Train 2) at the existing Pluto LNG onshore facility.

Development of Scarborough will include the installation of a floating production unit with eight wells drilled in the initial phase and thirteen wells drilled over the life of the Scarborough field.

The resulting energy would produce less than half the CO<sub>2</sub> emissions per megawatt-hour of energy produced from coal, making it one of the lowest carbon sources of LNG globally that can be delivered to Woodside's north Asian customers.

The development of Scarborough will secure economic growth and local employment opportunities for Australia, WA and the local Pilbara community.

The major engineering design contracts for Scarborough have been awarded to Australian entities, with all project management and a substantial amount of engineering design work being undertaken in Perth, WA. Contract awards include engineering works related to the FPU as well as the export trunkline and subsea umbilical risers and flowlines.

Final investment decisions were approved on Scarborough and Pluto Train 2 in November 2021 and Woodside is targeting first LNG cargo in 2026<sup>1</sup>.

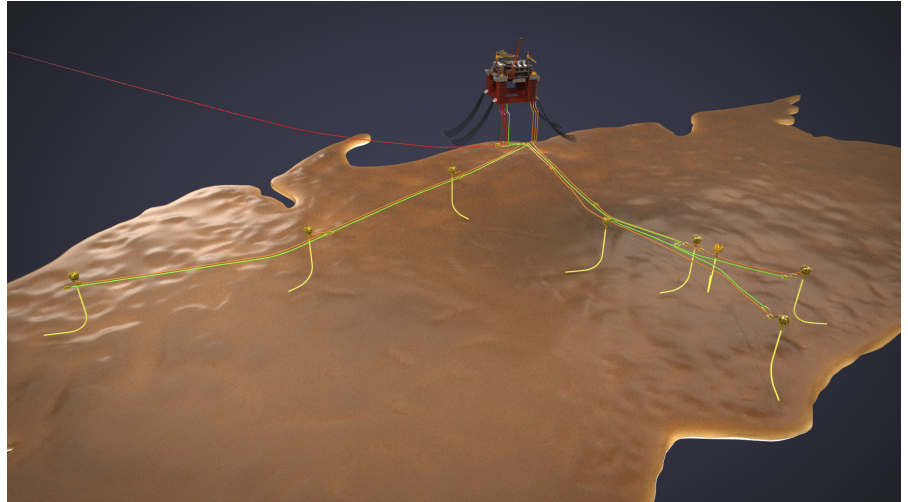


Figure 1: Scarborough indicative subsea layout (not to scale).

In December 2021, Woodside issued Full Notice to Proceed to key Scarborough contractors for offshore project execution.

### Tieback and future development

The Thebe and Jupiter gas fields provide opportunities for future tieback to Scarborough infrastructure.

As the proposed export pipeline route crosses the Carnarvon Basin in close proximity to undeveloped fields, Woodside is engaging with other resource owners to explore opportunities for future development.

### Offshore environmental approvals

Scarborough spans both Australian and Western Australian jurisdictions.

Activities in State waters include dredging, pipelay, sand backfill and pipeline installation operations.

All key primary environmental approvals to support the final investment decisions are in place, with secondary environmental approvals progressing to support project execution activities.

The State waters activities are assessed and approved under the Western Australian Environmental Protection Act 1986 (EP Act) and the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act).

A proposal for activities in State waters was referred to the Western Australian Environmental Protection Authority (WA EPA) and the Commonwealth Department

of Agriculture, Water and Energy (DAWE). The DAWE referral decision of 'Not a controlled action' was released on 12 August 2019. Implementation authorisation was granted by the WA Minister for Environment on 11 August 2021 by way of Ministerial Statement 1172.

Activities in Commonwealth waters include drilling of the gas wells, installation of the FPU and installation of the pipeline section and related activities.

A proposal for Scarborough activities in Commonwealth waters was submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) in February 2019 as an Offshore Project Proposal (OPP). The OPP was released for an eight-week public comment period during July and August 2019 and following stakeholder feedback and consultation, the OPP was accepted by NOPSEMA in March 2020.

The disposal of dredged material will be managed under a Sea Dumping Permit (granted 3 December 2019) and Dredging and Spoil Disposal Management Plan, which provides details on the environmental management procedures to limit impact.

Work on developing the relevant associated Environment Plans is progressing in 2022. The Scarborough Field Development Plan was submitted to the National Offshore Petroleum Titles Administrator in 2021.

<sup>1</sup> Developments and targets are subject to finalisation of required joint venture approvals, regulatory approvals and commercial arrangements.

### Onshore environmental approvals

Existing Commonwealth and State primary environmental approvals for Pluto LNG allow for two LNG trains and supporting infrastructure.

An area for a second train was prepared during the foundation project in 2007-2008.

Associated management plans will be evaluated under these approvals and updated as required.

Woodside has the necessary approvals to support Pluto Train 2.

### Submerged heritage

Archaeological and ethnographic assessments have been completed to inform the potential for submerged Indigenous cultural heritage to exist in the Scarborough development footprint.

The assessments concluded a low likelihood of submerged heritage in the project footprint and no Aboriginal heritage

sites were identified under the relevant legislation.

Woodside continues to work with Traditional Custodians to identify, manage and protect heritage.

### Greenhouse gas (GHG) emissions

The Scarborough OPP provides an assessment of potential environmental risks and impacts for the activities in Commonwealth waters, including the management of GHG emissions across the life of the project. In developing projects like Scarborough, Woodside is committed to playing a significant role in the world's energy transformation, through limiting our own emissions and reducing global emissions by supplying cleaner energy to a world that needs it.

Woodside will reduce Scarborough's direct GHG emissions to as low as reasonably practicable by incorporating energy efficiency measures in design and operations. Further information on how

this is being achieved is included in the Scarborough OPP, sections 4.5.4.1 and 7.1.3.

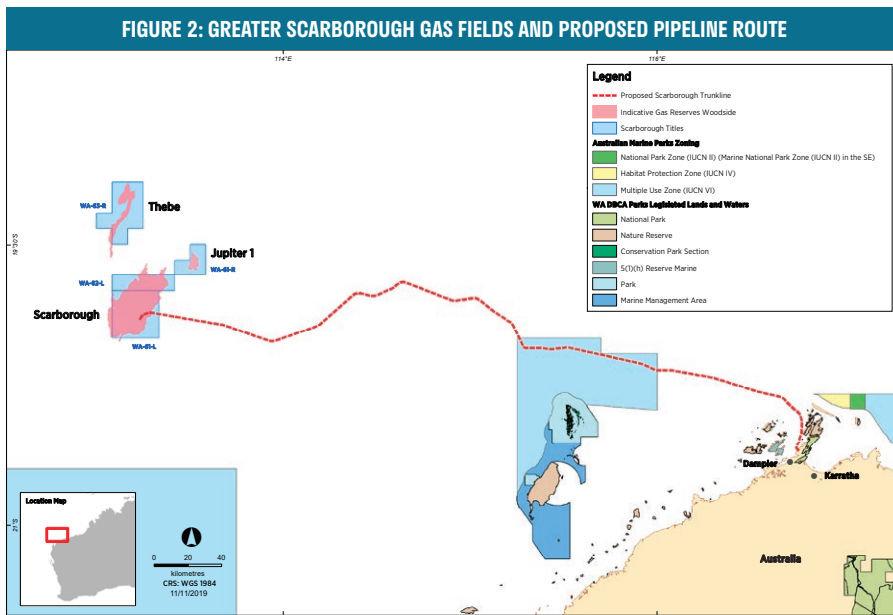
To view more about how Woodside manages its GHG emissions, visit: <https://www.woodside.com.au/sustainability/climate-change>

### Future benefits

The development of Scarborough and Pluto Train 2 are expected to deliver significant long-term benefits<sup>2</sup> over the life of the projects including:

- + A peak construction workforce of almost 3,200 jobs.
- + Capital expenditure of A\$15.8 billion in WA to 2051.
- + Boosting Australia's Gross Domestic Product by A\$125 billion to 2063.

These developments will support local operations and WA communities for decades, including long-term investment in education, training and jobs.



**TABLE 1: SCARBOROUGH JOINT VENTURE EQUITY**

Gas Fields	Woodside Interest	BHP Interest
Scarborough (WA-61-L)	73.5%	26.5%
North Scarborough (WA-62-L)	73.5%	26.5%
Thebe (WA-63-R)	50%	50%
Jupiter (WA-61-R)	50%	50%

2 Source: Proposed Development of Scarborough Economic Impact Assessment (ACIL Allen, June 2019)

### Further Information

This Overview, along with other information on Woodside's proposed developments and operations, is available at [www.woodside.com.au](http://www.woodside.com.au)

Proposed developments are subject to joint venture approvals, regulatory approvals and relevant commercial arrangements, therefore, development concept and timing may be subject to change.

If you require further information or would like to comment, please contact Woodside by email to [feedback@woodside.com.au](mailto:feedback@woodside.com.au) or call toll free 1800 442 977.

All information is current as at February 2022.