Woodside has operated the world-class Pluto LNG facility safely and reliably since start-up in 2012. Gas from the offshore Pluto and Xena fields is piped through a 180 km pipeline to Pluto LNG’s single onshore LNG processing train located on the Burrup Peninsula, near Karratha, WA.

Pluto Train 2
Woodside is proposing a brownfield expansion of Pluto LNG through the construction of a second gas processing train. Pluto Train 2 would have a capacity of about 5 million tonnes per annum (Mtpa) (100% project).

Pluto LNG
The composition of gas from the offshore Scarborough field is well suited to Pluto LNG, which is designed for lean gas and nitrogen removal.

As the appointed engineering, procurement and construction contractor for Pluto Train 2, Bechtel Australia executed front-end engineering design (FEED) activities in 2019 and provided a lump sum price and schedule for the execute phase.

In 2019, FEED activities commenced for the modification required to Pluto Train 1 for processing approximately 1.5 Mtpa of Scarborough gas. Woodside is targeting a final investment decision (FID) on Pluto Train 2 in 2021.

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

1 Woodside Pluto LNG Expansion | April 2020
**Pluto–KGP Interconnector**

Woodside is proposing a pipeline to transport gas from Pluto LNG to the NWS Project’s Karratha Gas Plant (KGP).

Transporting gas through the Interconnector would provide opportunities to take advantage of future excess capacity at KGP. It will also provide potential to accelerate future developments of other offshore Pluto gas reserves, as well as third-party resources.

Gas would be treated at new gas conditioning facilities at Pluto LNG before being transported through the 5 km, 30 inch pipeline to KGP, constructed along the existing Dampier to Bunbury Natural Gas Pipeline (DBNGP) corridor. The Interconnector will have the capacity to transport wet gas quantities of more than 5 Mtpa (100% project, LNG production equivalent).

Environmental approval for the pipeline was secured in 2019. We continue to work through regulatory approvals and finalisation of commercial arrangements for the interconnector.

In November 2019, Woodside announced FID on the pipeline component of the interconnector and entered into contractual arrangements with DDG Operations Pty Ltd, part of Australian Gas Infrastructure Group, for the construction of the pipeline and its ongoing operation and maintenance.

Woodside is targeting start-up of the Interconnector in 2022.

**Domestic gas**

First domestic gas from Pluto LNG to the DBNGP was supplied at near capacity of 25 terajoules a day (TJ/d) during commissioning of new domestic gas infrastructure in December 2018. The successful commissioning was a significant first step towards long-term supply from the Pluto site.

Additional domestic gas can be delivered from the Pluto LNG truck loading facility, which was constructed in 2019.

Pluto LNG Expansion would include installation of additional domestic gas infrastructure to increase capacity to approximately 225 TJ/d.

**Regulatory approvals**

Existing Commonwealth and State primary environmental approvals for Pluto LNG allow for two LNG trains and supporting infrastructure, and its commercial structure is designed to facilitate third-party gas processing. An area for a second train was pre-prepared with the foundation project in 2007-2008. Minimal further earthworks are required for Pluto Train 2.

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

Woodside is seeking the necessary approvals and licensing to support Pluto Train 2 and the Pluto-KGP Interconnector.

**Environmental management**

In compliance with applicable environmental regulatory requirements, Woodside is undertaking rigorous environmental and risk management planning for the Pluto LNG expansion.

While emissions would remain within the impact envelope of the existing environmental approvals, Woodside is committed to continued investment in technologies that reduce emissions and promote energy efficiency in our facilities.

We undertake scientific monitoring and management of air at our Burrup facilities, consistent with industry standards, regulations and environmental licence requirements.

Woodside supports the ongoing protection, conservation and management of the National Heritage Listed values of Murujuga (Burrup Peninsula) and the wider Dampier Archipelago as committed in the 2017 Deep Gorge Joint Statement.

Woodside continues to work closely with the Muruujuga Aboriginal Corporation and the Ngarda-Ngarli traditional custodians to ensure the ongoing protection of cultural heritage values.

**Future benefits**

The development of Scarborough through Pluto is expected to deliver significant long-term benefits 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.

Scarborough and Pluto Train 2 will extend the life of the existing Woodside-operated facilities and provide long-term cleaner reliable energy to both domestic and global markets.

**Working with Woodside**

Woodside and its contractors will use the Karratha Local Jobs portal (karrathalocaljobs.com.au) to advertise appropriate roles. Requirements are still being considered but a FIFO workforce would likely be required to supplement the locally sourced workforce.

Development approval was secured in Q4 2019 for a 2,500-bed construction accommodation village in Karratha for Bechtel’s Pluto Train 2 construction workforce.

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2 Developments and targets are subject to finalisation of required joint venture approvals, regulatory approvals and commercial arrangements.

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