

Barossa Development

Quarterly Update: March 2022

Santos

Please see below the Quarter 1 2022 update on Santos' Barossa Project.

Barossa will supply natural gas to the existing Darwin LNG facility from 2025, enabling another 20 years of production and contribution to the Australian and Northern Territory economies.

The Project is well advanced, with major contracts and regulatory approvals in place to commence production well drilling and pipeline installation this year.

Work Progress Highlights

Barossa entered the new year with continuing good progress on all work fronts.

Recent highlights in Darwin include the arrival of drilling equipment at the Project's main supply base and the completion of geotechnical surveys in Darwin Harbour.

Another Project milestone was the delivery of the first Xmas Tree at a testing facility south of Perth, Western Australia. Xmas Trees are a key piece of subsea hardware that provide flow control to the gas production wells.

Solid progress has been made on the Floating Production, Storage and Offloading (FPSO) vessel's hull and turret engineering and fabrication. The first hull block has been assembled and fabrication of the topside girders is underway.

The manufacture of pipe for the gas export pipeline continues and the pipe bends manufacture has recently been completed. Some images of the progress are below:



Upcoming Activity

Development Drilling

Preparations continue for the start of Barossa production well drilling from June 2022 onwards, marking the Project's first major work program in Australian waters.

Drilling supply equipment has started arriving in Darwin (pictured below left) and some modification work is being undertaken on the drilling rig while it is moored in Dampier, north-Western Australia (pictured below right).



The drilling campaign will involve the drilling of six production wells at three locations within the Barossa field, located about 300 kilometres north of Darwin. Each well takes approximately 90 days to drill.

Gas Export Pipeline Installation

Planning for installation of the new Barossa gas export pipeline in Commonwealth waters is also well-progressed and a scheduled commencement date will be finalised during Quarter 2, 2022. Works may then commence as early as November this year.

Environmental Approvals

Development Drilling

The Development Drilling and Completions Environment Plan (EP) was accepted by NOPSEMA on March 14, 2022. The full EP is available on NOPSEMA's website at [NOPSEMA - Environment Plans](#). It includes a summary of the correspondence between stakeholders and Santos during the preparation period. Full transcripts of this correspondence, as well as any other sensitive information received, were provided to NOPSEMA for assessment but are not published.

Upcoming Environmental Assessments

Santos has commenced the development of the Barossa Production Operations Environment Plan. This EP will cover all aspects of production operations including greenhouse gas emissions.

Development of the Subsea Facilities (SURF) and Moorings Installation EP has also commenced. Santos anticipates undertaking consultation with stakeholders on these EPs from Quarter 2 this year.

Alternative Pipeline Development Option

Development approvals already received enable the installation of a new Barossa gas export pipeline (GEP) from the Barossa field to a tie-in point at the existing Bayu-Undan to Darwin Pipeline. As previously communicated in 2021, an alternative under assessment by Santos is to extend the new Barossa GEP all the way to the existing Darwin LNG facility. This equates to approximately ~125 km of additional pipe.

This would enable the Bayu-Undan to Darwin Pipeline to be preserved for life extension and/or re-purposing opportunities. One opportunity being studied in detail is pipeline re-purposing for the proposed globally significant Bayu-Undan Carbon Capture and Storage (CCS) Project. An animation of the opportunity is available at [Santos' CCS Opportunities](#) and further information is available at [Santos Announcements](#).

Santos has chosen to progress long-lead Commonwealth and Northern Territory government approvals for the alternative pipeline development option, titled the **Darwin Pipeline Duplication (DPD) Project**. Santos has previously consulted with stakeholders on these approvals and provides the following update:

- An Environmental Referral is currently being assessed by the NT Environment Protection Authority (NT EPA) to construct and operate the 100-km pipeline segment in Northern Territory waters and lands, including Darwin Harbour and a shore crossing at Wickham Point in the Greater Darwin Area. The public comment period on this referral has concluded. The referral is available on the NT-EPA's website at [NT EPA Referral](#).

- A Referral on Matters of National Environmental Significance (MNES) covered under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) has also been submitted. The referral is available for public comment on the Commonwealth Department of Agriculture, Water and the Environment's website at [EPBC Referral](#).
- The Barossa Gas Export Pipeline Installation Environment Plan Revision, to extend the pipeline by 25 kms in Commonwealth waters, is under assessment by NOPSEMA. This EP is available on NOPSEMA's website at [NOPSEMA Environment Plan](#).

Stakeholder Engagement

During the next four years, Santos is required to prepare various regulatory approval applications. We will continue to ensure that relevant stakeholders are engaged during the preparation of relevant applications and are provided pre-activity notifications of all our on-water activities.

Conscious of the amount of industry information provided to some stakeholders, Santos seeks to limit written information to quarterly development updates. The updates include information on development progress, upcoming regulatory approvals and notifications of proposed and completed on-water activities. From time-to-time there may be a need to conduct out-of-sequence engagement on specific issues and activities.

Please make contact if you have queries about the development or want to discuss the engagement process. We would be pleased to meet in person or facilitate online conversations at any time.

Aware of the coronavirus (COVID-19) threat to remote Aboriginal communities, Santos is avoiding visiting Traditional Owners. Santos has instead conducted online briefing sessions, and this continues to be the preferred method of engagement for the near-term.

Contact us via email at Offshore.Consultation@Santos.com or via the additional telephone contact details below.