

Barossa Development

Quarterly Update: June 2022

Santos

Please see below the Quarter 2 2022 update on Santos' Barossa Project.

Barossa will supply natural gas to the existing Santos-operated Darwin LNG facility from 2025, enabling another 20 years of natural gas production and contribution to the Australian and Northern Territory economies. The Project is well advanced, with major construction contracts and key regulatory approvals in place.

Stakeholder engagement on Barossa commenced in 2016. Santos is committed to ensuring stakeholders remain engaged and informed throughout the project life.

Work Progress Highlights

The Project is more than 30 percent complete with construction teams working across multiple global locations. Major milestones during the last quarter include the formal start of construction for the Floating, Production, Storage and Offloading (FPSO) vessel, marked by a keel laying ceremony. An artist impression of the completed FPSO is pictured below.



Significant progress has also been made across the subsea infrastructure construction scope, this includes three X-mas trees (which will provide flow control to the gas production wells) completed and delivered to Darwin, 262 km of gas export pipeline (GEP) line pipe manufacturing completed, all in-field production flowline line pipe is completed (pictured below), and commencement of manifold (designed to transfer reservoir gas from wellheads to production pipelines) fabrication.



Upcoming Activity

Notification of Production (Development) Well Drilling

Santos gives notice that the semi-submersible drill rig *MS-1*, operated by Valaris and pictured below, will shortly commence drilling of the Barossa production wells. Preparatory vessel-based in-field work is scheduled to commence late June before drilling in early July. The *MS-1* will be towed onto location and supported by several offshore vessels including the *Far Senator*, *Far Seeker* and *Go Spica*. Once on location the vessels will transit between the rig and Darwin harbour. Drilling and vessel activities will continue until at least Q3 2023. All regulatory approvals are in place for the drilling activity including the NOPSEMA-accepted Development Drilling and Completions Environment Plan (EP) available [here](#).

Gas Export Pipeline Installation

Installation of the new 262-km Barossa Gas Export Pipeline (GEP) in Commonwealth waters is expected to commence as early as December 2022. The primary offshore pipelay and construction vessels are the *Audacia* and *Fortitude* respectively (pictured below). The NOPSEMA-accepted Barossa GEP Installation EP is available [here](#).





Requested Consultation on Upcoming Environmental Assessments

Santos has commenced development of two new environment plans (EPs): one for the Subsea Infrastructure and FPSO Moorings Installation and Pre-commissioning and the other for Production Operations covering commissioning and sustained operation of the FPSO and GEP. In accordance with Division 2.2A – Consultation in Preparing an Environment Plan – of the Commonwealth *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009*, Santos is consulting with ‘relevant persons’ whose functions, interests or activities may be affected by the activities to be carried out under the environment plans. The consultation process will help inform the preparation of these plans that, once completed, will be submitted to NOPSEMA for formal assessment and be made publicly available.

Detailed information on the activities covered by both EPs is attached in separate fact sheets. **If you have any comments, objections, claims or information requests in relation to the proposed activities please contact us by 15 July 2022 via email at Offshore.Consultation@Santos.com or the additional telephone contact details below.** Relevant persons may request that information provided during the consultation not be published in the publicly available environment plans.

Alternative Nearshore Pipeline Development Option

Barossa regulatory environmental approvals already received enable the installation of a new 262-km Barossa GEP from the Barossa Field to a tie-in point at the existing Bayu-Undan to Darwin Pipeline. As previously communicated in quarterly updates, an alternative development option 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 nearshore pipeline development option, titled the **Darwin Pipeline Duplication (DPD) Project**. Santos has previously consulted with stakeholders on these approvals and provides the following update:

- The NT Environment Protection Authority (NT EPA) assessment under the *NT Environmental Protection Act 2019* is available [here](#).
- The Commonwealth Department of Agriculture, Water and the Environment (DAWE) assessment under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) is available [here](#).
- NOPSEMA's assessment under the Commonwealth *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009* is available [here](#).
- The NT Department of Industry, Tourism and Trade has advertised a ‘notification of an application for pipeline licence’ under the *NT Energy Pipelines Act 1981* and *Petroleum (Submerged Lands) Act 1981*. The notification is available [here](#).

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 updates. The updates include information on project 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 believe you may be impacted by the Project, have queries or want to discuss the engagement process. We would be pleased to meet in person or facilitate online conversations at any time.

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