

Barossa Gas Project

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- Darwin Pipeline Duplication works commence in Darwin Harbour.
- Subsea infrastructure installation continues.
- Barossa Aboriginal Future Fund launched.

Work progress highlights

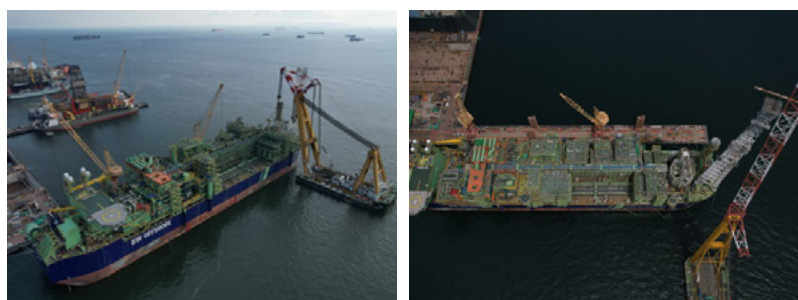
The Barossa Gas Project is now more than 76 per cent complete and visible in Darwin.

Offshore works for the Darwin Pipeline Duplication (DPD) have commenced within Darwin Harbour and will continue for the rest of 2024.

In remote Commonwealth waters off the Northern Territory (NT), the Gas Export Pipeline (GEP) has been installed, the first phase of subsea infrastructure installation has been completed and the third production well is being drilled.

Meanwhile, in Singapore, construction of the Floating Production, Storage and Offloading (FPSO) vessel is continuing with modules being integrated into the topside of the now floating hull.

FPSO construction



Building of the FPSO is progressing well in Singapore and is now around 85% complete.

At the end of May, the last of the major lifts was completed with all Topside modules now installed on the FPSO. The main ongoing work involves the final integration of topside modules and commissioning of systems to ensure they are operating safely.

The FPSO, which will eventually be permanently located in the Barossa Field (subject to receipt of the necessary approvals), is 358m long and 64 meters wide and can accommodate up to 140 personnel.

Once integration and onshore commissioning has been completed, the FPSO will be towed to site from Singapore using ocean going tugs and connected to the mooring system.

GEP installation

The 262-kilometre GEP has now been installed on the seabed and is being tested and preserved in readiness for future operations expected to start in 2025.

The GEP will connect the Barossa field to the DPD and together these pipelines will transport natural gas from the Barossa field to the Darwin LNG (DLNG) facility.

The 26-inch diameter GEP has been designed and engineered in accordance with stringent international standards and to withstand the weather and currents that occur in the area.

It is made from carbon steel with an external anti-corrosion coating and concrete covering to weigh it down on the seabed.

The GEP route was carefully selected to minimise impacts to the surrounding marine environment. Tiwi Cultural Monitors were on board throughout installation activities.

Santos provides a weekly update on these activities via email to other marine users. Additional information is available via the [Santos Public Notices](#) page.



Installation of the GEP by the 'Audacia' (below), supported by the 'Fortitude' (above) construction support vessel.



Subsea Infrastructure Installation



Installation of subsea infrastructure in the Barossa Field, located 285km offshore from Darwin, commenced in February 2024.

The infrastructure, including umbilicals, risers and flowlines, manifolds and moorings, is designed to support the connection of six subsea production wells to the FPSO.

The first phase of the 18-month campaign, involving installation of suction anchor piles and hook-up of the Submerged Turret Production buoy for the FPSO mooring system, has been completed.



The installation of the infield flowlines that will connect the drill centres to the FPSO location has commenced. The remaining flowlines will be installed in the next two months, while installation of risers and umbilicals also gets underway.

Once all installation and testing has been completed, a preservation phase will commence that will maintain the integrity of the infrastructure in readiness for future operations expected to start in 2025.



The shallow water pipelay barge 'Sandpiper' will install the DPD within Darwin Harbour.

DPD Project

DPD activities commenced in May 2024 with onshore work at Wickham Point where the existing DLNG facility is located.

In June, the offshore works in NT internal waters commenced in Darwin Harbour and will continue for the next 12 months.

The DPD Project effectively involves 'duplicating' the existing Bayu-Undan to Darwin pipeline in NT internal waters, NT coastal waters and Commonwealth waters. Once in operation the new pipeline will only be used for transporting natural gas (not oil or condensate) from the Barossa gas field to the DLNG facility.

DPD activity will include pre-lay trenching and spoil disposal, span rectification and foundation installation, temporary causeway construction, cable and pipeline crossings, pipeline installation, rock installation and the survey, testing and pre-commissioning of the pipeline. Not all of these activities are relevant to the jurisdictions listed above where the pipeline will be laid.

The construction activities will occur within a Project area, encompassing the pipeline route with an approximate 2 km buffer either side of the pipeline and the spoil disposal ground.

The activities are managed to ensure that environmental impacts and risks are avoided or mitigated to meet Santos and regulatory requirements. Environmental monitoring surveys,

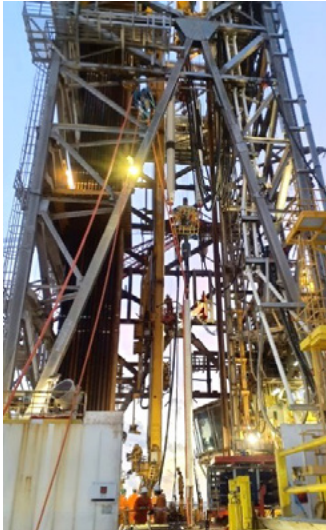


Plant equipment at DLNG preparing for shore crossing construction.

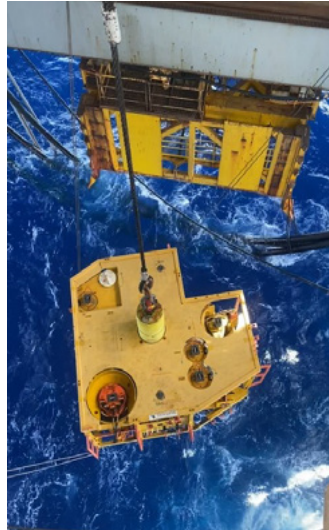
to support the DPD Project, have commenced within Darwin Harbour, in collaboration with Santos' environmental consultants and Larrakia Rangers.

The DPD Project in NT internal waters has received all primary approvals. The NT Government approved the DPD activity in NT jurisdiction under the NT Environment Protection Act following assessment by the NT Environment Protection Authority. The DPD activity in NT and Commonwealth jurisdictions has also been assessed and approved under the Commonwealth Environment Protection and Biodiversity Conservation Act (EPBC Act). One additional approval is required for the DPD Project activity within each of Commonwealth and NT coastal waters. This activity will only commence following receipt of all relevant approvals.

Drilling and Completions



Valaris MS-1 MODU derrick.



Subsea Vertical Tree deployment

Drilling of the development wells is continuing at the Barossa Field, 285km offshore from Darwin.

Drilling activities recommenced in January 2024 and the drilling unit is on the third well. A total of six wells will be drilled in water depths ranging from 230m to 268m using a moored semi-submersible mobile offshore drilling unit (MODU).

The entire drilling campaign, including completions and installation of subsea vertical trees, is expected to take about 24 months in total, subject to weather and operational performance. There are contingency plans for an additional two wells if required.

Drilling activities occur within a 2.5-km radius of each well. During drilling, a 500-metre exclusion zone (known as a petroleum safety zone) is in place around the MODU. Vessels are prohibited from entering or being present in a petroleum safety zone without authorisation.

The MODU is supported by up to four support vessels which transit between the development area and onshore supply base in Darwin as required.

First Nations Work Opportunities



First Nations people represent 55% of Santos' current trainees and apprentices in the NT and we continue to have 11 First Nations people engaged in Santos funded roles/ training programs that work offshore in positions related to the Barossa Gas Project.

These comprise four Tiwi people engaged as Cultural Observers and Monitors on the GEP pipelay and support vessels and seven Larrakia and Tiwi people engaged in offshore roles on the Santos' contracted drilling rig.

Two Santos Offshore Health, Safety and Environment (HSE) Advisor Trainees have been recruited and will start a formal 12-18-month traineeship in July, to obtain a Certificate IV in HSE.

Trainees will initially undertake traineeships on the Santos contracted drill rig.

Barossa Aboriginal Future Fund

Santos has launched the Barossa Aboriginal Future Fund that will invest in projects that will directly benefit NT Aboriginal Coastal Communities.

The Fund will invest in projects and programs that improve community infrastructure, health, education, housing, and economic outcomes and support employment pathways.

The Fund will also support First Nations people to maintain cultural practices, carry out cultural obligations and care for country.

The Barossa Joint Venture Partners initial contribution to the Fund is \$10 million, with additional payments to be made into the Fund once Barossa starts producing and selling gas.

Santos is working with our Barossa Joint Venture Partners to finalise the revenue stream for the Fund and establish legal structures with sound governance.

Santos wants to listen to NT Coastal First Nations people about the needs for their communities.

If you want more information or want to share your ideas, you can visit the NT Community Team at the Santos shop in the Darwin Mall or contact us via email at enquiriesNT@santos.com or phone on **+61 8 919 1900**.

Environmental Approvals and Consultation

DPD Project – NT internal waters

DPD activities in NT internal waters are being undertaken in compliance with the primary environmental approvals received from the NT and Commonwealth governments.

The NT Government approved the DPD Project, following the completion of assessment by the NT Environment Protection Authority under the *Environment Protection Act 2019 (NT)*.

The DPD Project was also assessed and approved by the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) under the *Environment Protection and Biodiversity Conservation Act 1999 (Cth)*.

DPD Project – Commonwealth and NT coastal waters

An additional environmental approval is required for the DPD Project activity in each of Commonwealth and NT coastal waters. Santos has submitted an Environment Plan (EP) for DPD installation (~23km section of pipeline) in Commonwealth waters. Santos will also submit an environmental management plan in respect of DPD installation (~8km section) activities in NT coastal waters. Consultation for these plans has been completed.

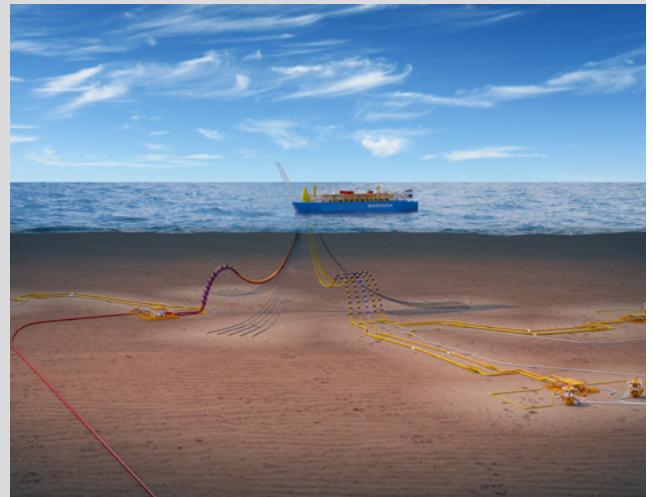
The Commonwealth waters EP will be assessed by NOPSEMA, while the environmental management plan covering the activity in NT coastal waters will be submitted to the NT Department of Industry, Tourism and Trade (NT- DITT) for acceptance.

Barossa Productions Operations – Commonwealth and NT waters

Santos is now preparing an Environment Plan (EP) for Barossa Production Operations in Commonwealth waters (~285km section) and an Operations Environmental Management Plan (OEMP) for Operations in NT coastal waters (~8km section) and NT internal waters (~92km section).

Once the Commonwealth waters EP has been finalised it will be assessed by NOPSEMA, while the OEMP will be submitted to the NT- DITT for acceptance.

Project Overview



The Barossa Gas Development, located approximately 285km offshore from Darwin in the Northern Territory, comprises a Floating Production Storage and Offloading (FPSO) facility, a subsea production system, supporting in-field subsea infrastructure and a gas export pipeline (GEP).

Once complete, the Barossa Gas Development will transport natural gas from the offshore Barossa field via the GEP to the existing Darwin liquefied natural gas (DLNG) facility.

The development is expected to commence delivering natural gas in 2025. Barossa gas is a critical energy source and will ensure affordable and reliable energy for Santos' customers for decades to come.

The Barossa Gas Development will create and sustain hundreds of jobs in the Northern Territory and will inject billions of dollars into the local economy, supporting the continued regional development of northern Australia.

Contact Us

We are committed to ongoing engagement about our activities. If you require further information or would like to speak to us, please do not hesitate to contact us.

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