

September 2025

FACT SHEET DARWIN LNG



Santos

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OPENING HOURS
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FACT SHEET

DARWIN LNG

DARWIN LNG BACKGROUND

- Darwin LNG is a natural gas liquefaction, storage and shipping facility located at Wickham Point.
- Darwin LNG commenced operations in 2006, processing Bayu-Undan gas from offshore Timor-Leste until the field reached end of life in mid-2025.
- Santos became operator of Darwin LNG in 2020 after acquiring ConocoPhillips' Australia West assets.
- Darwin LNG operates under a Major Hazard Facility licence, including a Safety Case accepted by NT WorkSafe, and an NT EPA Environment Protection Licence.
- Darwin LNG's operations workforce is 100% local.
- From September 2025, Darwin LNG will receive Barossa natural gas from offshore the Northern Territory, approximately 285 kilometres north-northwest of Darwin.
- Santos and its joint venture partners invested more than A\$5 billion to develop the Barossa gas field and refurbish Darwin LNG to extend its safe operating life for another two decades.
- Natural gas will be transported from Barossa via pipeline (the Gas Export Pipeline and the Darwin Pipeline Duplication) to Darwin LNG. By duplicating the pipeline instead of reusing the Bayu-Undan pipeline, Santos maintains the option to repurpose the old pipeline for CO₂ transport to potential offshore carbon capture and storage (CCS) projects, including at Bayu-Undan, to support emissions reduction goals.

DARWIN LNG TANK SAFETY

- The Darwin LNG tank operated safely for 18 years until it was taken out of service for the refurbishment of the Darwin LNG facilities.
- An LNG tank is designed to store natural gas that's been cooled to -162°C . This reduces the gas to about 1/600th of its original volume, enabling efficient transport to markets in Asia.
- The tank consists of a 9 per cent nickel inner tank liner, a void filled with perlite for insulation, and a carbon steel vapour barrier. The outer wall of the tank is made of reinforced concrete with an insulation layer between the vapour barrier and outer wall.
- During initial commissioning of Darwin LNG in 2005-2006, LNG splashed into the space between the inner and outer walls of the tank creating a fugitive emissions pathway that would otherwise have been prevented.
- During the Darwin LNG refurbishment, Santos and independent third-party experts conducted an extensive inspection program of the Darwin LNG tank which confirmed that it remains safe and fit for service for Barossa LNG.
- Options to repair the tank have been considered on several occasions. In 2023-24 Santos and three expert contractors confirmed there was no means to safely and effectively repair the tank during the Darwin LNG refurbishment. Given the tank itself poses no safety risk in its existing condition, it would not have been appropriate to increase safety risk by attempting repair and exposing workers to isolated work in an extremely confined space.

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DARWIN LNG TANK FUGITIVE EMISSIONS

- Monitoring of fugitive emissions from the tank commenced in 2006.
- At the end of 2007 an external expert confirmed that fugitive emissions were stable with emissions levels too low to be of consequence. The expert recommended the tank continue to operate without any changes to procedures or hazardous area zoning.
- As technology to detect fugitive emissions at very low levels advanced, this was used to continue to conduct surveys to monitor fugitive emissions from the tank in 2019, 2020 and 2023. These surveys continued to indicate very low, stable levels of fugitive emissions.
- Drone surveys, using new, more advanced sensor technology verified a stable emissions rate of 80-100kg/hr.
- CSIRO was engaged in 2021 to review the fugitive emissions surveys. CSIRO confirmed the technology, and methodology could be relied upon to yield robust results.
- In 2024, CSIRO also assessed the background atmospheric methane concentration around the Darwin LNG plant and surrounding areas. The background methane concentration was comparable to levels measured in other areas in the NT and other parts of Australia.
- When it is in operation, fugitive emissions from the Darwin LNG plant make up approximately 2 per cent of its total annual emissions reported under the NGERs.
- Santos will continue to monitor fugitive emissions at Darwin LNG using a variety of methods including infrared detection, drone monitoring with methane sensors, and leak detection programs.

OUR APPROACH TO EMISSIONS REDUCTION

- Santos is committed to continuous improvement of its emissions performance and reporting, is a member of the Oil and Gas Climate Initiative (OGCI), and a signatory to Aiming for Zero Methane Emissions.
- Santos continues to meet the OGCI 2025 target for methane emissions intensity, which is “below 0.2 per cent methane.”
- Santos invests across the portfolio in emissions reduction where it has maximum impact.
- For example, Santos’ voluntary adoption of industry-leading combined-cycle power generation, incorporating waste heat recovery and steam turbine technology used on the Barossa floating production, storage and offtake vessel, is expected to reduce non-reservoir emissions by 0.75 million tonnes of CO₂e per annum compared to what was planned for in the Offshore Project Proposal for Barossa LNG, which was accepted by the regulator NOPSEMA. The resulting annual emissions reduction from this initiative is equivalent to nearly 30 times Darwin LNG’s total annual fugitive emissions.
- Further, every 6 days, our Moomba CCS project in South Australia stores more CO₂e than the total annual fugitive emissions from the Darwin LNG plant when it is in operation.

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REGULATORY OVERSIGHT

- Legislation and regulations implemented by the Northern Territory and Australian Governments regulate the operation of Darwin LNG.
- Santos implements systems for compliance with all applicable environmental, safety and operational regulations, standards and conditions, including:
 1. Northern Territory Environment Protection Authority: oversees Darwin LNGs' adherence to local environmental regulations and sustainable development practices in accordance with the principle of 'ALARP', or ensuring risks are as low as reasonably practicable.

This includes a robust, regular environmental monitoring program in the immediate vicinity of Darwin LNG with reporting publicly available on the NT EPA website.

NT EPA regulates Darwin LNG under an Environment Protection License. The licence is renewed on a 5-yearly basis with the most recent renewal in September 2025.
 2. Northern Territory WorkSafe: oversees Darwin LNG's compliance with safety standards designed to protect workers from occupational hazards.

NT WorkSafe regulates Darwin LNG under a Major Hazard Facility licence based on a Safety Case accepted by the regulator. The licence is renewed on a 5-yearly basis with the most recent renewal in July 2025.
 3. Clean Energy Regulator (CER) is the Australian Government body responsible for administering legislation that reduces carbon emissions. CER has oversight of emissions reporting under the National Greenhouse and Energy Reporting Scheme (NGERS), baseline reporting and compliance under the Safeguard Mechanism. Santos is required to report its greenhouse gas emissions, including fugitive emissions, annually to CER under NGERS, as well as to reduce Darwin LNG baseline emissions by 4.9% each year under the Safeguard Mechanism. This information is publicly available on the CER website.
- Santos engages regularly with NT and Australian regulators on Darwin LNG, including providing results of the latest surveys and investigations.

OUR SHOP FRONT AND ENGAGEMENT OPPORTUNITIES

- Fully staffed by local employees, our Shopfront is open to the community:
Monday-Thursday between 10:00am and 3:00pm, or by appointment outside these hours.
- A 24-hour community phone line (**Ph: 1800 267 600**), and a community email address that is continuously monitored (**enquiriesNT@santos.com**) is available for anyone to seek information or share concerns.
- Santos also holds 'drop in' sessions in the Shopfront quarterly. These sessions are advertised in advance in the NT News.