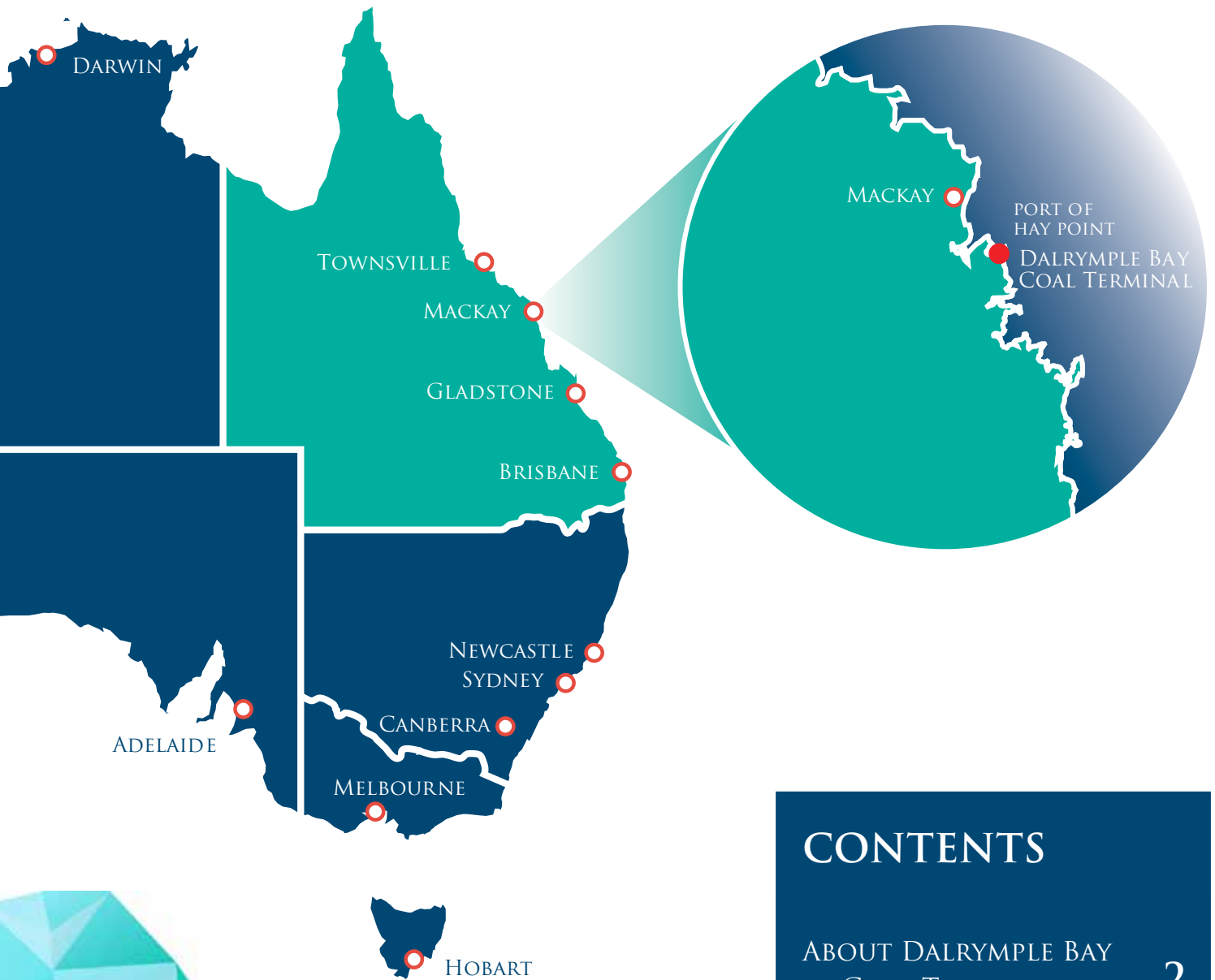


# DALRYMPLE BAY COAL TERMINAL



DALRYMPLE BAY  
COAL TERMINAL  
PTY LTD



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# ABOUT DBCT

Dalrymple Bay Coal Terminal (DBCT) is a global coal export terminal, a Queensland icon and a local neighbour.

Located at the Port of Hay Point, 38 kilometres south of Mackay in central Queensland, DBCT is a key player in the world's global coal export market and is critical to the economic prosperity of Queensland and Australia.

With an uncompromising dedication to ensuring the safety of its people and the surrounding community, coupled with an unparalleled persistence to achieve operational excellence, DBCT has been reliably exporting coal for more than 30 years.

Over the last three decades, DBCT has undergone various expansions to meet the unprecedented demand by global markets for the Bowen Basin's premium quality coal.

As one of the world's largest coal export terminals with the capacity to ship 85 Mtpa, DBCT is an impressive facility.



## DBCT

Dalrymple Bay Infrastructure (DBI) holds a 50-year lease with a 49-year option, to operate, maintain and develop the terminal.

Dalrymple Bay Coal Terminal Pty Ltd (DBCT P/L), a company owned by a selection of mining companies using the terminal, is contracted by DBI under an Operations and Maintenance Contract (OMC) to operate and maintain the terminal on a daily basis.

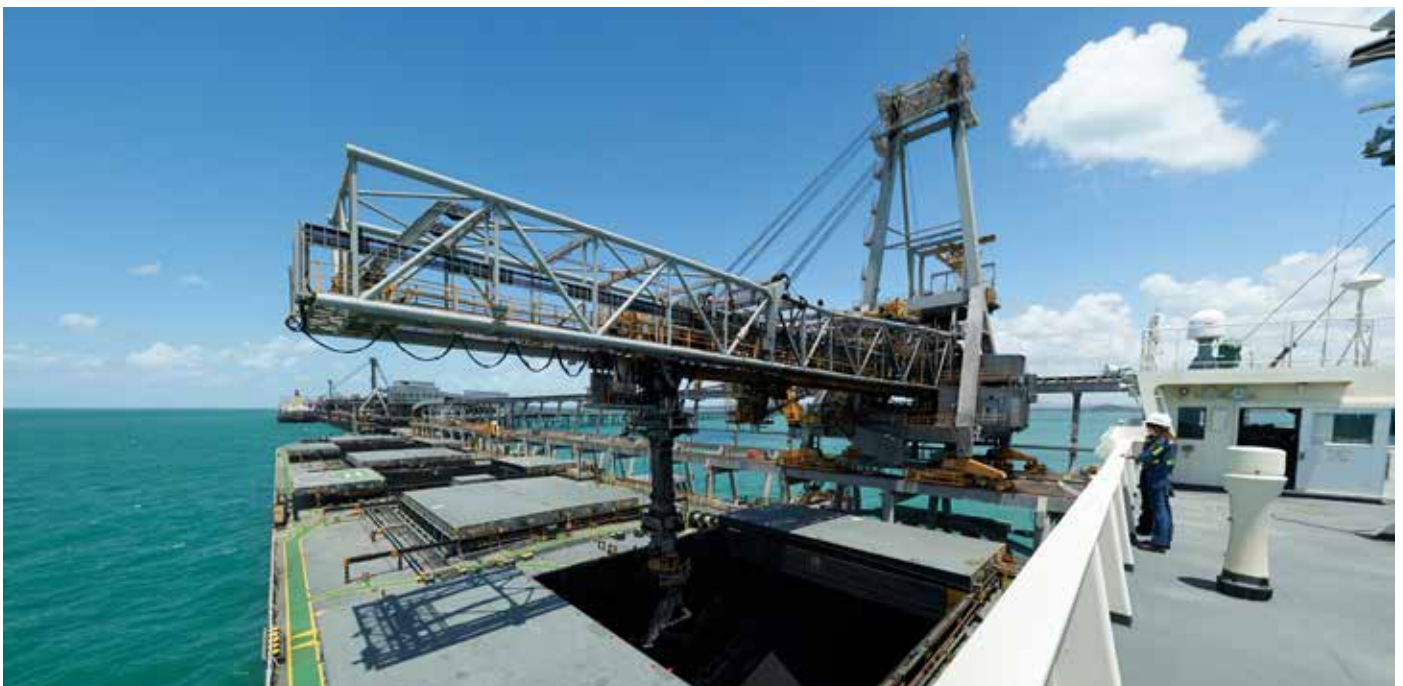
The terminal is a common-user facility providing services to a large number of mining customers producing all types of coal (coking, PCI and thermal). This, together with the DBCT's ability to blend different coal types from its stockyard, makes the operation unique to most other coal terminals.

DBCT has reliably exported coal to more than 25 countries throughout the world.

DBCT makes a significant economic and social contribution to surrounding communities, Queensland and Australia. This includes:

- Employment of more than 300 people and often has more than 300 contractors on site each day.
- Annual injection of more than \$100 million into the Queensland economy.
- Provision of more than 20 apprenticeships and traineeships.
- Annual support of more than \$200,000 each year for community development.

\*Figures accurate as at January 2018







## TERMINAL OPERATIONS

DBCT operates 24 hours a day, 365 days a year to supply coal to an expanding world market, boasts three inloading systems, a stockyard with 12 stacking and/or reclaiming machines, three outloading systems feeding the three shiploaders and four berths.

Coal arrives at DBCT via electric trains with up to 124 wagons. Each has a nominal payload of 10,100 tonnes, but actual average payloads are around 9,900 tonnes.

The coal is discharged from the rail wagons 'on the move' through automatic bottom-dump gates over three rail pits with separate takeaway conveyors. The process to unload the wagons takes approximately two hours and twenty minutes. An extensive conveyor network then transports the coal either to the stockyard to be stacked into stockpiles with stacker machines or stacker/reclaimer machines for storage or transported directly to the wharf for loading.

The stockyard covers nearly 67 hectares and has eight rows containing stockpiles, which can hold more than 2.28 million tonnes. The average stockpile contains about 26,000 tonnes of coal (approximately two train loads), is 80 metres in length and is stacked to minimise dust creation. The tonnes in each stockpile and the length can vary greatly due to shipping requirements and number of products/parcels per vessel.

Large stockyard machines are used to create stockpiles by taking coal from the conveyors at the rate of up to 8,100 tonnes per hour.

As each coal product is different and has a different purpose, care is taken to ensure there is no cross-contamination of products.

When a ship is ready to be loaded with coal, the reclaimer machines or stacker/reclaimer machines use a 'bucketwheel' to reclaim the coal from the stockpiles and place the coal back on the conveyor system. These machines reclaim at an average rate of up to 3,700 to 5,300 tonnes per hour. DBCT has different types of yard machines including stackers, stacker/reclaimers and reclaimers, with the name indicating the specific purpose of the machine. Stacker/Reclaimer, as the name suggests, can perform both functions, although not simultaneously.

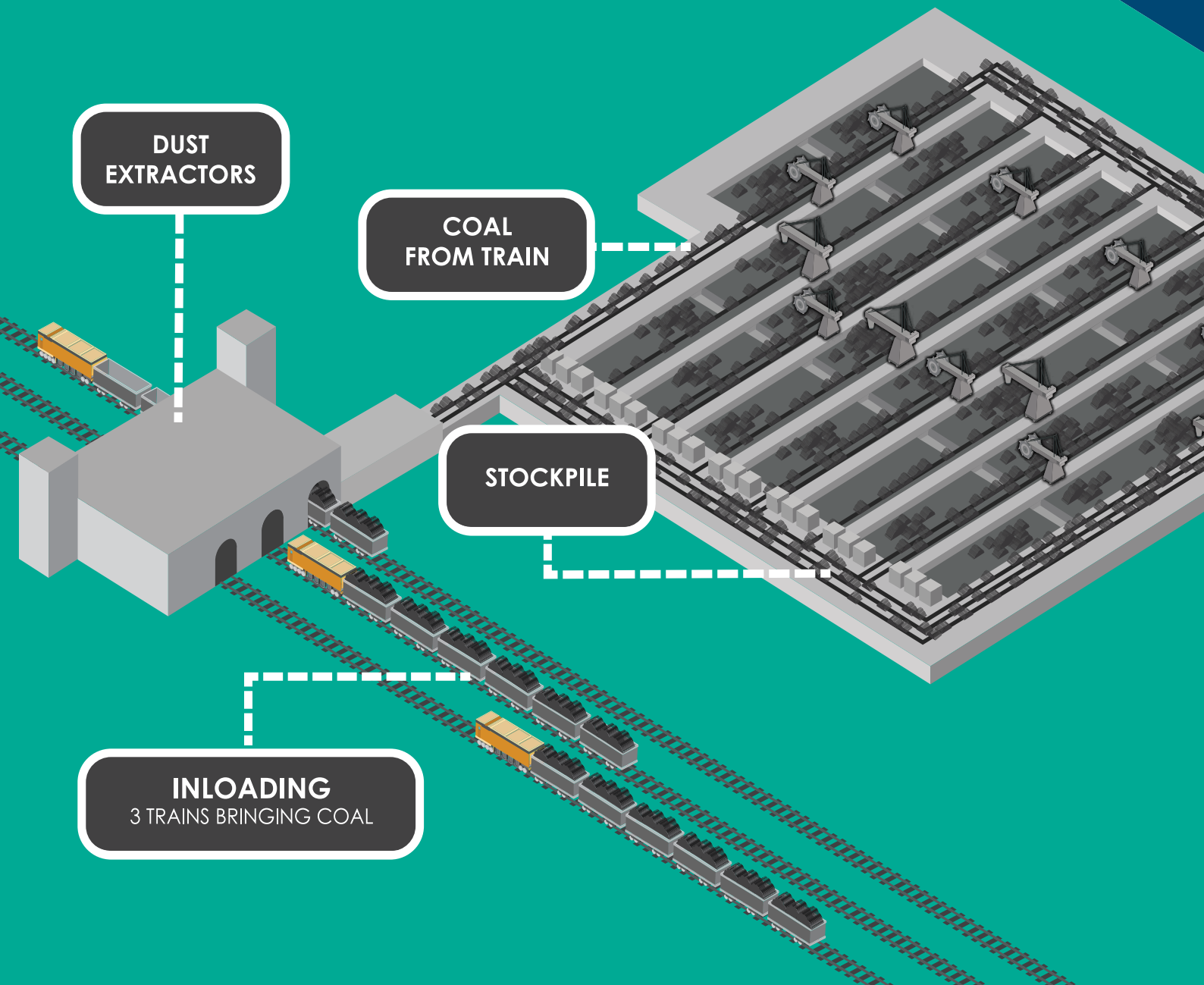
The coal is then transported to one of three 'surge bins' that act as buffers between the yard system and the conveying system to the shiploaders, ensuring an even loading rate is sustained. Coal can be blended from DBCT's stockpiles as up to three reclaimers may be utilised to feed each shiploader. After the coal is tested to ensure it meets buyer requirements, it is then transported along the 3.8 kilometre jetty to the wharf.

The 1.6 kilometre wharf features four berths, which can accommodate ships ranging from 40,000 to 220,000 deadweight tonnes. Three manually-operated shiploaders are used to transfer coal from the wharf conveyors into the holds of ships at a loading rate ranging from 7,200 to 8,650 tonnes per hour. While the size and cargo of each ship visiting the terminal can vary greatly, it takes about 22 hours to load an average 100,000 tonne cargo.

The Regional Harbour Master, appointed by the Queensland Government, is responsible for the movement and safety of ships in the Port of Hay Point, and provides 24-hour service including radio and radar surveillance.



# TERMINAL OPERATIONS FROM MINE TO PORT



**DUST  
EXTRACTORS**

**COAL  
FROM TRAIN**

**STOCKPILE**

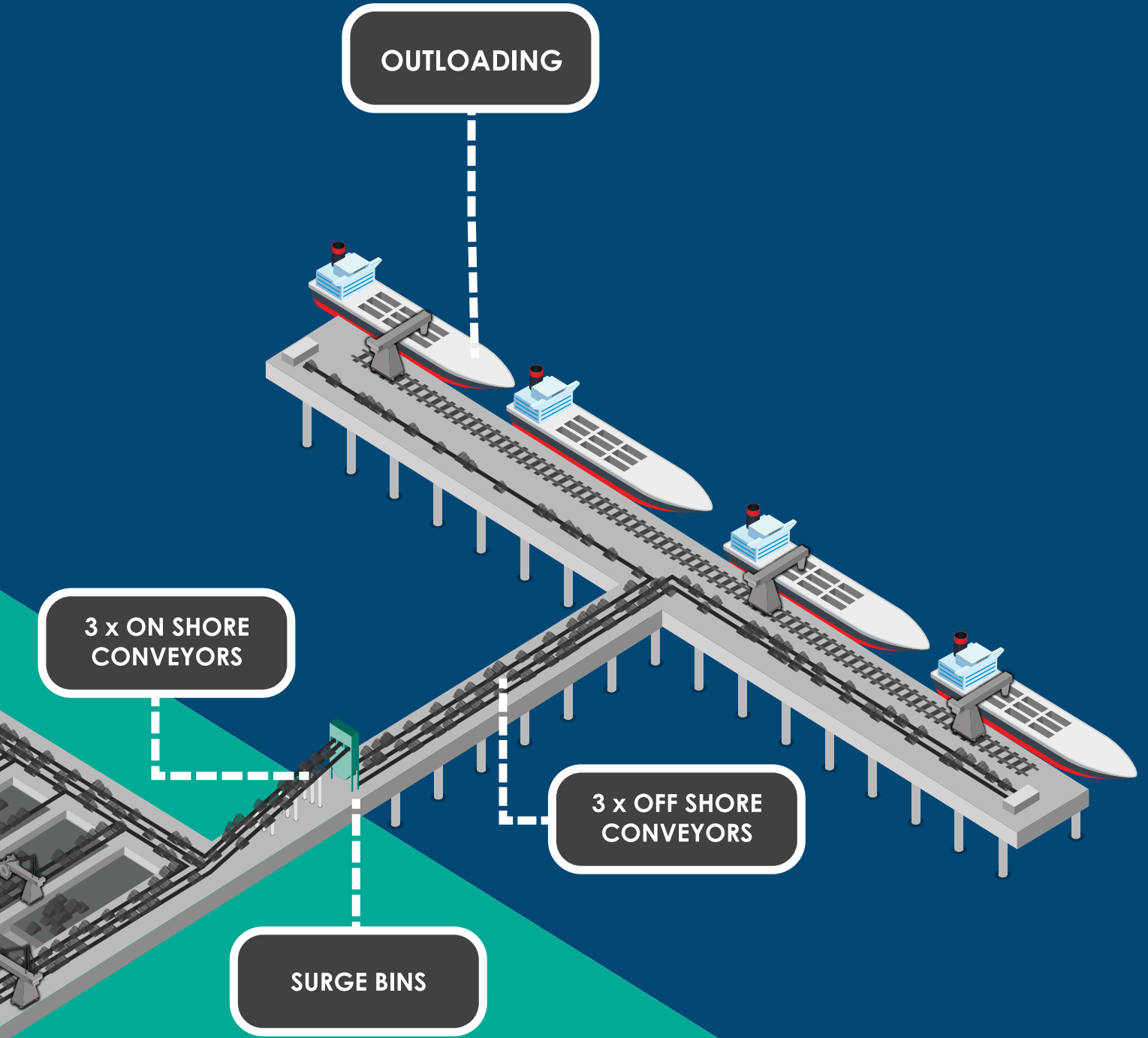
**INLOADING**  
3 TRAINS BRINGING COAL

**OUTLOADING**

**3 x ON SHORE  
CONVEYORS**

**3 x OFF SHORE  
CONVEYORS**

**SURGE BINS**







## SAFETY

The safety of its people and surrounding communities is DBCT P/L's number one priority.

Every person at DBCT has the right to stop the job if they believe in good faith the job is unsafe to continue.

DBCT P/L has a number of initiatives in place to minimise risk to all workers which include:

- Safety Observer Program.
- Material Risks Program.
- Training and Competency Assessments.
- Robust Drug and Alcohol Management.
- Occupational Health and Hygiene Monitoring.

All injuries can be prevented and to make this a reality, DBCT P/L's people are guided by the following principles:

- Working safely is a condition of employment.
- We look out for each other.
- No person will accept an unsafe condition.
- Personal Protective Equipment (PPE) is not optional.
- All incidents are reported.

Everyone has the right to go home in the same condition as they were in when they left home that day.











## ENVIRONMENT

Achieving success and continually undertaking and seeking improvements in environmental management is evidenced by DBCT P/L's authentic and proven responsibility to the environment.

DBCT P/L strives to meet environmental obligations as well as stakeholder and community expectations. DBCT P/L aims to minimise potential impacts to the surrounding environment including local communities.

Operating a coal terminal within the Great Barrier Reef World Heritage Area is a unique challenge. DBCT P/L, its workers, service providers and contractors all have the responsibility to ensure DBCT P/L's activities achieve a sustainable long-term positive outcome that benefits future generations worldwide.

DBCT P/L's commitment to valuing the environment is demonstrated through a robust Environmental Management System, environmental initiatives, and support from local organisations such as Conservation Volunteers Australia and Sarina Landcare and Catchment Management Association, as well as our Environmental Management ISO14001 certification. Independent qualified auditors assess the terminal's Environmental Management System against the international standard.

DBCT P/L has identified specific areas of focus to ensure the company meets its environmental obligations. These include, dust, noise, water, land and sustainability.

Through the DBCT P/L's Integrated Environmental Management System, DBCT runs active programs are conducted around:

- Dust monitoring and suppression – sprinkler systems, water and vacuum trucks, coal-handling techniques and veneering. These are just some of the tools used to minimise dust.
- Noise suppression – noise is monitored in real-time and reported to the local community and administering authority. Noise controls include low-noise idlers and air-handling systems to reduce noise generated by conveyor drives.
- Lighting – all on-site lighting has been designed to ensure neighbouring residents have minimal intrusion. Our lighting is also turtle friendly.
- Water – all water on-site is collected and recycled via an extensive water recycling program.
- Currently more than 50% of the terminal's waste and works each year are recycled.
- Items recycled include office refuse, cardboard, aluminium cans, industrial products including oil, batteries scrap steel and conveyor belts.
- A wide variety of native fauna co-exists with DBCT P/L including possums, wallabies, echidnas, snakes, many breeds of birds, ducks, humpback whales and fish species.
- DBCT P/L reports on greenhouse gas emissions, energy production, energy consumption and other information as specified under the National Greenhouse and Energy Reporting Act and the National Pollutant Inventory (NPI).





## OUR PEOPLE

DBCT boasts world-class facilities and a proven track record in sustainability and this has only been achieved through the actions and quality of its people. DBCT P/L's people are solutions-focussed, results-driven, responsible and pragmatic.

DBCT P/Ls believes in 'Success through People' which is underpinned by values of:

**INTEGRITY** in all our actions

**COURAGE** to do the right thing

**ACCOUNTABILITY** for our own performance

**RESPECT** for people

**EXCELLENCE** in our performance

**INITIATIVE** to improve







## COMMUNITY

As an integral part of the Mackay Region for more than 30 years, DBCT P/L's social responsibility to its surrounding communities is based on a strong desire to make a real and valued contribution to the economic and social development of the region.

Through a robust sponsorship program, DBCT P/L injects more than \$200,000 into the region each year, improving youth, education, arts, sports, health and environment initiatives and community events.

DBCT P/L focuses on building meaningful, mutually beneficial partnerships with organisations, groups and events to deliver positive outcomes across the community. Maintaining established partnerships is also integral to DBCT P/L and the community, with funding sustaining worthwhile programs such as the Sarina School Chaplains and Young People's Entertainment Season.



## IN THE LOCAL COMMUNITY

The Community Working Group (CWG) was established more than 12 years ago and allows two-way information flow between DBCT P/L and members of the community. This promotes regular communication with community members, ensuring they are informed of terminal operations, as well as allowing them to provide DBCT P/L with feedback.

DBCT P/L hosts the CWG approximately every eight weeks. The CWG is comprised of representatives from residential areas surrounding the terminal, environmental representation and stakeholders representing business and local government.

The CWG is dedicated to:

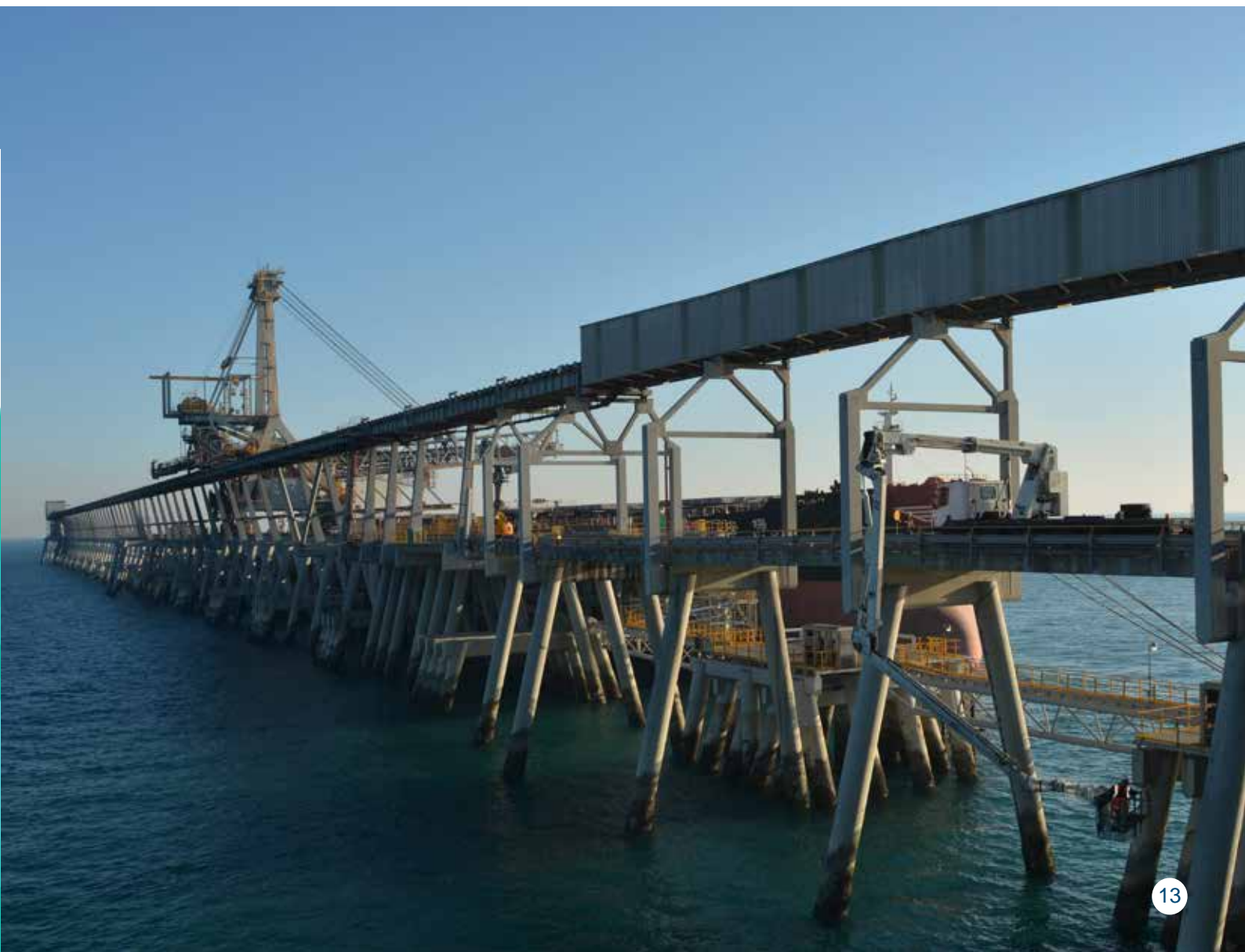
- Facilitating the exchange of ideas, suggestions and information.
- Promoting discussion between the terminal and the community.
- Working towards partnerships that better the future.
- Identifying mutually-beneficial partnership opportunities.
- Determining distribution of CWG Sponsorship funding.



## THE FUTURE

DBCT is an integral part of Australia's coal supply chain, ensuring reliability and continuity of coal supply from the Bowen Basin coal fields to the world export market.

With an uncompromising dedication to the environment and ensuring the safety of its people and the surrounding community, in addition to a determination to achieve operational excellence, planning for the long-term success of DBCT will be carried out in partnership with DBCT stakeholders. DBCT P/L sees this as the key to a sustainable future.









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*\*Brochure contents accurate as at January 2018.*

