



QGC

LNG SHIPPING



SAFE SHIPPING

Shell has been in the business of shipping since the company's foundation in the late 1800s. Today, Shell manages one of the largest fleets of liquefied natural gas (LNG) carriers, all playing a vital role in the safe and secure delivery of energy around the world.

The Shell operated QGC business LNG plant located in Queensland, eastern Australia, has safely exported more than 500 cargoes of LNG from Curtis Island, off Gladstone, since October 2019.

These exports take place in line with extensive plans for shipping made in consultation with the Australian and Queensland Governments, maritime authorities and Gladstone Ports Corporation.

QUICK FACTS

There are up to 120 shipments a year from QGC's LNG plant.

Shipments have been made to more than 13 countries including China, Japan, South Korea, India, Singapore, Malaysia, Thailand, UAE, Pakistan, Mexico, Jordan, Kuwait and Taiwan.

Each vessel holds enough energy to power a city the size of Melbourne for a week.

WWW.SHELL.COM.AU/QGC



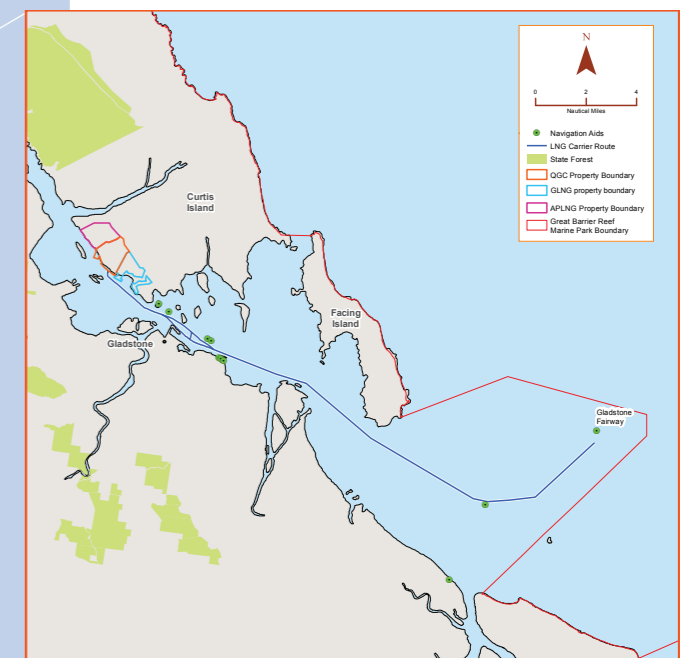
PROTECTING THE REEF

The Great Barrier Reef is among the most protected waterways in the world.

Movement through the Great Barrier Reef Marine Park is strictly regulated and monitored by the Australian Maritime Safety Authority and Maritime Safety Queensland. These authorities use the 24-hour Great Barrier Reef and Torres Strait Vessel Traffic Service (REEFVTS) to identify ships and their positions, manage traffic and provide information including weather warnings.

LNG carriers using Shell's QGC business liquefied natural gas facility on Curtis Island follow the same internationally approved and recognised routes as other commercial vessels. The vessels sail outside the reef unless otherwise directed by authorities during bad weather.

In addition, LNG vessels using the facility are instructed to avoid southern parts of the reef by travelling about 110 nautical miles further south of the standard shipping route to pass south of Lady Musgrave Island when sailing in to or out of Gladstone Harbour.



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 Department of Natural Resources and Mines
 Geosciences Australia
 Great Barrier Reef Marine Park Authority
 Australian Maritime Safety Authority
 Department of Sustainability, Environment,
 Water, Population and Communities

Map Projection: Geocentric Datum of Australia 1994

NOTE: Whilst care has been taken to prepare this map, QGC (and associated data custodians) make no guarantee about its accuracy, reliability or completeness and cannot accept responsibility of any kind for any expenses, losses, damages and/or costs (including indirect or consequential damage) which are incurred by any party as a result of this product.

LNG SHIPPING

LNG CARRIERS HOLD ONE OF THE BEST SAFETY RECORDS IN THE SHIPPING INDUSTRY. MORE THAN 135,000 VOYAGES COMPLETED HAVE BEEN WITHOUT MAJOR INCIDENT OR LOSS OF CARGO.

Carriers have been equipped with primary and secondary containment systems, emergency shutdown and fire and gas detection controls. Ships are operated using comprehensive safety procedures and crews are highly trained.

LNG carriers have double hulls, with about 1.8m of void space or water ballast between them and the cargo tanks. This prevents leaks or tank rupture. At the jetty on Curtis Island, the loading system has an automatic cut-off and disconnection system that is activated by leak detection sensors.

LNG carriers using the port are subject to the same regulations as existing Gladstone Harbour traffic.

In the financial year 2018-2019, over 1,900 vessels visited the harbour, of which 399 carried LNG.

Gladstone Ports Corporation and Maritime Safety Queensland publish expected movements of commercial shipping traffic at:

www.gpcl.com.au

www.qships.tmr.qld.gov.au

ABOUT QGC

The Shell operated QGC joint venture is located in Queensland in Eastern Australia. We're one of Australia's leading natural gas producers, focused on developing Queensland's world-class onshore gas reserves for supply to the domestic market and international customers.

We operate an 8.5mtpa LNG plant on Curtis Island near Gladstone, and natural gas operations, which include wells, compression stations and processing plants, in Queensland's Surat Basin.

A STABLE COMMODITY

01

LNG is not carried under pressure and as a liquid cannot be ignited.

02

In the unlikely event of an uncontrolled release of cargo, LNG will simply revert to a gas as it warms in the open air.

03

Natural gas (methane) is lighter than air and quickly dissipates into the atmosphere.

04

Natural gas and LNG are non-toxic.

Shell is the operator and majority interest holder in the joint venture. Our partners in the LNG plant on Curtis Island are CNOOC (50% equity in Train 1) and Tokyo Gas (2.5% equity in Train 2).

CONTACT DETAILS

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