

The LNG Industry



The LNG Industry in 2011

Edito



The most significant event to mark the LNG trade in 2011 has been the catastrophe that hit Japan in March, in view of both its short-term effect on shifting flows and its long-term demand prospects of LNG as a source for gas-fired power generation.

The role of LNG as a flexible and secure energy source as well as the prompt response to provide back-up through additional supplies and cargo diversions to compensate for the sudden loss of nuclear capacity in Japan – with sellers exercising due price restraint in view of the human tragedy – has been a credit to the industry. The increase in production capacity in 2009 and 2010, in particular from Qatar, had permitted the necessary buffer to cope much better with the demand surge than during past disruptions (such as the aftermath of the Chuetsu earthquake in late 2007). Undoubtedly, the marked shift over the last decade in the industry's prevailing business model towards global trade, destination flexibility and portfolio play has also facilitated the rapid response.

As the total volume of LNG trade is very much determined by the availability of supply, 2011 has seen a growth of 9.4% over 2010, mainly as a result of the full availability of the six Qatar mega-trains over the past year.

On the demand side the two traditional basins have shown very contrasting trends: 15% higher LNG off-take in Asia (the five major markets all increasing between 37.4% and 8.9%), versus a 1.7% decrease in the Atlantic Basin.

Cargo diversions and an increasing number of reloads have boosted the exports from the Atlantic Basin to Asia in 2011 to more than 14 million tons (equivalent to more than 200 large size cargoes).

Remarkable is also the fast growth in new markets in Latin America and in the Middle East - albeit from a small base - with counter-seasonal but varying demand, offering attractive arbitrage opportunities to portfolio play.

Not surprising then that 2011 has seen another hike in spot and short-term trade, not just in absolute terms but also as a percentage of total trade (50% over 2010, 25.4% of total trade).

The outlook for LNG is strong and its global demand prospects further enhanced in the wake of the nuclear issues, the emergence of new buyers and the decline of indigenous reserves of gas exporters. This has underpinned a growing investment confidence which in turn resulted in 5 FIDs (Final Investment Decisions) in 2011 for a total liquefaction capacity of 27 million tons p.a. An event of great commercial significance in this regard would undoubtedly be one, or more FID's in North America in the near future.

GIIGNL has completed in 2011 its 40th full year of activity after its foundation in December 1971 in Paris. Its membership has grown to 68 companies worldwide, comprising nearly all companies active in the import of LNG or the operation/ownership of LNG import terminals. In 2011 the commercial and technical study groups have continued their study programme on some 15 topics in total, including:

- > Development of Master Sales and Purchase Agreements and Master Voyage Charter Party (posted on the website)
- > Market assessment of small-scale LNG
- > Third update of the Custody Transfer Handbook (available from the website)
- > Emissions from import terminals
- > Third update of the incident study

The last topic is part of the specific focus within the Group on safety, as the adherence to the highest standards and adequate information exchange in this domain is paramount to maintaining the excellent safety record within the industry, itself an absolute condition for its continued success.

Jean VermeirePresident

68 Member Companies in 21

GIIGNL (International Group of Liquefied Natural Gas Importers) is a non-profit organisation whose objective is to promote the development of activities related to LNG: purchasing, importing, processing, transportation, handling, re-gasification and its various uses.

The Group constitutes a forum for exchange of information and experience among its members to enhance safety, reliability and efficiency of LNG imports activities and the operation of LNG imports terminals in particular.

Beginning with 19 member companies in 1971, GIIGNL has grown to 55 Full and 13 Associate members from 21 different countries around the world, grouped in three regions: Asia, Europe and the Americas.



countries

ASIA - 29 members

Chubu Electric Power Company, Inc. CNOOC Gas & Power Group CPC Corporation, Taiwan Gail India Limited Guangdong Dapeng LNG Company, Ltd. Gujarat State Petroleum Corp. Lt. (GSPC) Hiroshima Gas Company, Ltd. Itochu Corporation Korea Gas Corporation Kyushu Electric Power Company, Inc. **LNG Japan Corporation** Marubeni Corporation Mitsubishi Corporation Mitsui & Company, Ltd. Nippon Gas Company, Ltd. Osaka Gas Company, Ltd. Petronet LNG Limited Posco Saibu Gas Company, Ltd. Shikoku Electric Power Company Shizuoka Gas Company, Ltd. SK E&S Company, Ltd. Sumitomo Corporation The Chugoku Electric Power Company, Inc. The Kansai Electric Power Company, Inc. The Tokyo Electric Power Company, Inc. Toho Gas Company, Ltd. Tohoku Electric Power Company, Inc.

Tokyo Gas Company, Ltd.

EUROPE - 28 members

BOTAS BP Global LNG

Centrica LNG Company

DFPA

Distrigas S.A.

Dragon LNG Limited

E.ON Ruhrgas A.G.

EDF Trading Limited

Edison S.p.A.

EDP Gas SGPS, S.A.

Elengy S.A.

Enagas

Enel Trade

Eni S.p.A.

Fluxys LNG S.A.

Gas Natural Fenosa

Gate Terminal B.V.

GDF SUEZ

Iberdrola Generacion S.A.U.

N.V. Nederlandse Gasunie

National Grid Grain LNG, Ltd. O.M.V. Gas and Power GmbH

Ren Atlântico, S.A.

Shell Gas & Power International BV

Sonatrach Gas Marketing UK Limited

South Hook LNG Terminal Company, Ltd.

Statoil ASA

Total S.A.

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Key figures 2011

240.8 million tons imported or an increase of **+9.4%** vs.2010

61.2 million tons imported under spot or short-term contracts or an increase of +50% vs.2010

51% of global LNG imports supplied from Qatar

63% of global LNG demand in Asia

14.7 million tons exported from the Atlantic to the Pacific Basin

At year-end:

89 LNG regasification terminals

25 countries

640 million tons p.a. total capacity

At year-end:

24 liquefaction facilities

18 countries

278 million tons p.a. total capacity



LNG Contracts and Trade

In 2011, LNG trade grew by 49.4 10⁶ m³ (20.7 Mt), a growth of 9.4% compared with 2010. As during the previous year, the main contribution to the increase of LNG flows came from Qatar, as the country was responsible for 67% of additional LNG produced in 2011. For the largest part, the remaining additional volumes produced in 2011 resulted from the build-up of the newly commissioned liquefaction facilities in Peru and in Yemen.

On the import side, LNG consumption in Asia continued to grow strongly (+14.8%), reaching a total of 153.0 Mt in 2011, i.e 63.6% of the world's LNG trade. However, the Asian growth rate was reached in specific circumstances, considering the sharp increase in Japanese LNG demand which resulted from the loss of nuclear power generation capacity. Not surprisingly, at the end of 2011, Japan stands out as the world's n°1 LNG importer with 79.1 Mt, compared to 70.9 in 2010 (+11.6%). Japan accounted for 41.6% of Asia's additional LNG's imports in 2011 and the country's share of global LNG imports increased from 31.6% in 2010 to 32.8%. With LNG imports growing by 8.9% and total imports representing 35.6 Mt, Korea ranked second. Its share of the global LNG market remained nevertheless unchanged at 14.8%. Due among other factors to the lower than expected domestic production, India experienced Asia's fastest growth rate in LNG demand (+37.4% over 2010), closely followed by China (+36.1%). As a result of economic recovery. Taiwan also recorded a strong increase in LNG imports (+9.1%). In Asia, Thailand became an LNG importer during the year, with 0.8 Mt imported through the newly commissioned Map-Ta-Phut terminal during the year.

After a sharp rebound in 2010 (+24.8%), European imports barely increased by a mere 0.4%, with Qatari LNG volumes into the UK representing the greatest part of additional LNG imported into Europe. Spanish LNG imports experienced the most remarkable decline (-16.3%), followed by Turkey (-14.6%). The Netherlands joined the ranks of LNG importing countries with 0.6 Mt (8 cargoes) delivered at Gate Terminal during the year. For the first time, the UK overtook Spain as the world's third largest LNG importer, with 18.4 Mt imported during the year, 87.5% of the volumes coming from Qatar.

In North America, LNG imports into the U.S.A (net of re-exports) continued to decline (-25.1%), mainly due to the sustained high level of non-conventional domestic gas production. As a result of the low price environment in North America, LNG imports into Mexico also dropped, by 33.7%. Re-exports of cargoes from the U.S.A jumped by 75.2%, reaching a total of 1.0 Mt (19 cargoes).

In the short-term markets of South America, LNG demand continued to grow on average (+13.8%). With strong annual GDP growth rates, Argentina and Chile confirmed their current strong thirst for LNG, importing a combined 5.7 Mt during the year, i.e a 66% increase over 2010. However, due to a larger output from hydroelectric facilities in 2011, Brazilian LNG consumption dropped by 70.9%, contributing to maintain the global LNG market share of South America around a stagnant 2.6%.

In newcomers Kuwait and Dubai, LNG deliveries almost doubled in 2011, reaching a combined 3.7 Mt.

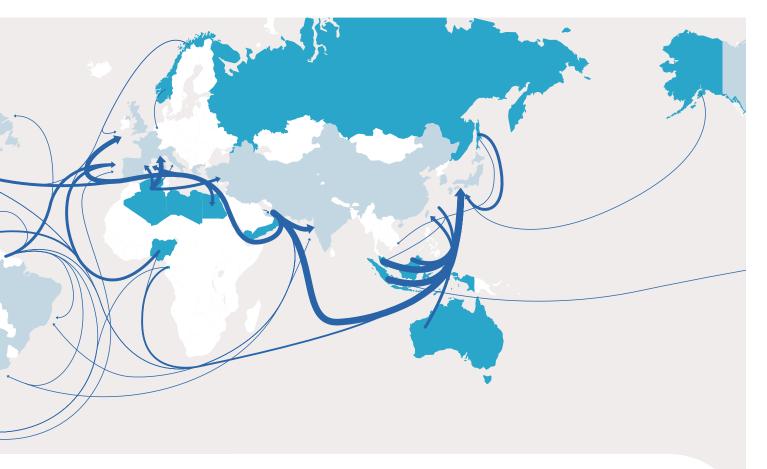


Overall, the total market share of Asian LNG buyers grew to 63.6%, while Europe and the Americas respectively recorded a 2.6% and 1.6% loss in market share to respectively 27% and 7.9%.

On the export side, Qatar reinforced its leading position, supplying 31.3% of global LNG (75.4 Mt). With 10.3% of global LNG supplies, Malaysia re-gained its second rank over Indonesia (9.1%) following the reduced output from Arun and the ramp-up of production from MLNG Dua. With 18.7 Mt of additional LNG sold throughout the world, Qatar accounted for 67% of the global trade growth during the year, followed by Peru (9%) and Yemen (9%). To a lesser extent, Malaysia, Nigeria and Russia also contributed to the growth by increasing their production rates.

For the first time and before the start-up of new Australian liquefaction projects, the Middle East (39.7% of global exports) overtook the Pacific Basin (36.5%) as the largest source for LNG. On the contrary and for the second year in a row, the Atlantic Basin recorded a decline in exported volumes (-4.8%), with negative production growth rates in all countries except Nigeria and Equatorial Guinea. The decrease was particularly strong in Algeria (-1.7 Mt) due to transmission issues and to the decommissioning of GL4Z.

After a 40% increase in 2010, spot and short-term LNG trade (defined as LNG traded under contracts with a duration of 4 years or less) recorded again a jump in 2011, this time by 50%, reaching 61.2 Mt (994 cargoes), i.e more than a quarter of the total LNG trade (25.4%).



As to the sourcing, one third of LNG volumes traded on a spot or short-term basis came from Qatar, followed by Nigeria (12%) and Trinidad and Tobago (11%). In 2011, Qatar exported 26.7% of its total production on a spot or short-term basis. In terms of inter-regional flows, it must be highlighted that spot and short-term volumes exported from the Atlantic Basin to Asia recorded a twofold increase in 2011, reaching 12.7 million tons.

Asia attracted 60.9% of global spot and short-term volumes (37.3 Mt), compared with 43.6% (17.8 Mt) in 2010. This can primarily be explained by the increased LNG needs following the March 2011 events in Japan, where spot and short-term imports skyrocketed to 16.0 Mt (+123.5%) during the year, vs 7.2 Mt in 2010. In Korea, the annual volume of spot and short term LNG imports almost doubled, reaching 10.7 Mt (+96%). Spot and short-term imports more than doubled in China and almost tripled in India, with both countries importing a combined 6.5 Mt of LNG under this type of contracts.

On the contrary, Europe's spot and short-term LNG imports decreased by 7.8% (12.3 Mt). In the Americas, spot and short-term LNG trade recorded very strong growth rates in all countries except in the US and in Brazil, where it decreased by 32% and 71% respectively.

A total of 44 cargoes were re-loaded during the year, compared with 19 cargoes in 2010. Re-exported volumes were delivered to 13 countries, 14 cargoes being re-exported from the Atlantic Basin to Asia and 11 cargoes to South America (Argentina, Brazil, Chile).

At the end of the year, at least two cargoes re-exported from the U.S.A and one cargo re-exported from Spain were still out at sea. They were delivered in January 2012 respectively in Brazil, in South Korea and in Italy. One cargo delivered in Kuwait was a re-export from Brazil and was counted as LNG from Qatar in the present study. One cargo of Indonesian LNG delivered in Mexico (Costa Azul) was re-exported to Chile (Quintero) under a swap agreement.

The world trade involved 164 "flows" (i.e. country-to-country trades, excluding flows of re-exports) over 403 sea transportation routes (port-to-port routes). 117 routes were new and 100 ceased in 2011. In 2011, there were 37 new country-to-country flows: ABU-DHABI/ India - ALGERIA/Netherlands and Portugal - AUSTRALIA/India, Kuwait and Taiwan - EGYPT/Argentina, China, Netherlands and Portugal - INDONESIA/Chile and Thailand - NIGERIA/Argentina, USA, Thailand and Netherlands - MALAYSIA/India and Dubai - NORWAY/India, Japan, Korea, Dominican Republic, Netherlands and Portugal - USA/China - OMAN/India - PERU/China, Japan, Thailand and Taiwan - QATAR/Greece, Netherlands and Thailand - RUSSIA/Thailand - TRINIDAD & TOBAGO/China and Netherlands - YEMEN/Japan.

16 flows disappeared: ABU-DHABI/Brazil, China - ALGERIA/Chile - EGYPT/Mexico, Belgium - NORWAY/Belgium and Turkey - OMAN/Kuwait - PERU/Brazil, Canada and Belgium - RUSSIA/Kuwait - TRINIDAD & TOBAGO/Portugal and YEMEN/Chile, Kuwait and Spain.

Contracts concluded in 2011

| Origin | Ехроrt country/exporter | Purchaser | Import country | Amount (mmtpa) | Duration (yrs) | Extra years | Start | Delivery format |
|--------------------------------|----------------------------|------------------------------|-------------------|-------------------|-------------------|----------------|------------------|--------------------|
| | Australia & BG Portfolio | CHUBU ELECTRIC | Japan | 0.41(*) | 21 | | 2014 | D.E.S |
| | Australia (QCLNG/BG) | TOKYO GAS | Japan | 1.2 | 20 | | 2015 | D.E.S |
| | Australia (Gorgon) | KYUSHU ELECTRIC | Japan | 0.3 | 15 | | 2015 | D.E.S |
| | Australia (APLNG) | KANSAI ELECTRIC | Japan | 1 | 20 | | 2016 | D.E.S |
| | Australia (Wheatstone) | The Tokyo Electric Power Co. | Japan | 3.1 | 20 | | 2017 | |
| | Australia (Wheatstone) | KYUSHU ELECTRIC | Japan | 0.7 | 20 | | 2017 | F.O.B |
| | Australia (Ichtys) | The Tokyo Electric Power Co. | Japan | 1.05 | 15 | | 2017 | F.O.B |
| | Australia (Ichtys) | TOKYO GAS | Japan | 1.05 | 15 | | 2017 | F.O.B |
| | Australia (Ichtys) | KANSAI ELECTRIC | Japan | 0.8 | 15 | | 2017 | F.O.B |
| | Australia (Ichtys) | KYUSHU ELECTRIC | Japan | 0.3 | 15 | | 2017 | F.O.B |
| Long & medium term Sales | Australia (Ichtys) | OSAKA GAS | Japan | 0.8 | 15 | | 2017 | F.O.B |
| | Australia (Ichtys) | TOTAL | | 0.9 | 15 | | 2017 | F.O.B |
| | Qatar (QATARGAS) | CHUBU ELECTRIC/SHIZUOKA | Japan | 0.2 | 6 | | 2014 | D.E.S |
| | Indonesia | KOGAS | South Korea | 0.7 | 13 | | 2015 | F.O.B |
| | TOTAL Portfolio | KOGAS | South Korea | 2 | 18 | | 2014 | D.E.S |
| | IBERDROLA Portfolio | ВР | Spain | 0.38 | 10 | | January 2012 | D.E.S |
| | USA (CHENIERE) | BG Group | | 3.5 | 20 | | 2015 | F.O.B |
| | USA (CHENIERE) | GASNATURAL FENOSA | | 3.5 | 20 | 12 | 2015 | F.O.B |
| | USA (CHENIERE) | GAIL | | 3.5 | 20 | | 2017 | F.O.B |
| | USA (CHENIERE) | KOGAS (signed in Jan. 2012) | | 3.5 | 20 | up to 10 | 2017 | F.O.B |
| | Indonesia | KOGAS | South Korea | 0.96 | 1,5 | | Q3 2011 | D.E.S |
| | Peru | PTT | Thailand | 0.3 | 1 | | July 2011 | D.E.S |
| | Peru | MITSUBISHI | Japan | 0.3 | 0,5 | | December 2011 | D.E.S |
| Short term contracts (< 4 yrs) | Qatar | Centrica | UK | 2.4 | 3 | | June 2011 | D.E.S |
| | GDF SUEZ Portfolio | PETRONAS | Malaysia | 2.5 | 3,5 | | 2012 | D.E.S |
| | GDF SUEZ Portfolio | PETRONET | India | 0.6 | 1 | | 2012 | D.E.S |
| | BG portfolio | GSPC | India | 2.5 | 20 | | 2014 | D.E.S |
| | Tokyo Gas | Saibu Gas | Japan | 0.3 | 16 | | 2014 | D.E.S |
| Heads of Agreement (H.O.A) | SHELL Portfolio | KOGAS | South Korea | 3.6 | 23 | | 2013 | D.E.S |
| | SHELL Portfolio | СРС | Taiwan | 2 | 20 | | 2016 | D.E.S |
| | QATAR/QATARGAS | ENARSA | Argentina | 5.0 | 20 | | 2014 | |
| Memorandum of | RUSSIA/GAZPROM | PETRONET | India | 2.5 | 25 | | 2016 | |
| understanding (M.O.U.) | RUSSIA/GAZPROM | GSPC | India | 2.5 | 25 | | 2016 | |
| Agreements on | | ENARSA | Argentina | 1.8 | 0,4 | | November 2011 | |
| re-gasification rights | | GN Europe | France | 0.7 | 10 | | 2011 | |

^(*) Up to 122 cargoes over 21 years (i.e up to 8.4 million tonnes if a 70,000 tons capacity vessel is used).

| Origin | Export country/exporter | Purchaser | Import country | Number of cargoes | Duration (yrs) | Extra years | Start | Delivery format |
|----------------------|----------------------------|-----------|-------------------|-------------------|-------------------|----------------|-------|--------------------|
| | Belgium/Zeebrugge | | Japan | 3 | spot | | 2011 | |
| | Belgium/Zeebrugge | | Netherlands | 1 | spot | | 2011 | |
| | Belgium/Zeebrugge | | South Korea | 1 | spot | | 2011 | |
| | Belgium/Zeebrugge | | Spain | 4 | spot | | 2011 | |
| | Spain/Cartagena | | Argentina | 1 | spot | | 2011 | |
| | Spain/Cartagena | | Italy | 5 | spot | | 2011 | |
| | Spain/Huelva | | Argentina | 1 | spot | | 2011 | |
| | Spain/Huelva | | Italy | 3 | spot | | 2011 | |
| | Spain/Mugardos | | Argentina | 3 | spot | | 2011 | |
| | Spain/Mugardos | | Italy | 1 | spot | | 2011 | |
| | Spain/Mugardos | | Kuwait | 1 | spot | | 2011 | |
| | Spain/Mugardos | | Taiwan | 1 | spot | | 2011 | |
| Re-export of cargoes | Mexico/ECA | | Chile | 1 | spot | | 2011 | |
| | USA/Sabine Pass | | Brasil | 3 | spot | | 2011 | |
| | USA/Freeport | | Brasil | 1 | spot | | 2011 | |
| | USA/Sabine Pass | | Chile | 1 | spot | | 2011 | |
| | USA/Sabine Pass | | China | 2 | spot | | 2011 | |
| | USA/Freeport | | India | 2 | spot | | 2011 | |
| | USA/Sabine Pass | | India | 2 | spot | | 2011 | |
| | USA/Cameron | | Japan | 1 | spot | | 2011 | |
| | USA/Freeport | | South Korea | 1 | spot | | 2011 | |
| | USA/Sabine Pass | | South Korea | 1 | spot | | 2011 | |
| | USA/Cameron | | Spain | 1 | spot | | 2011 | |
| | USA/Sabine Pass | | Spain | 1 | spot | | 2011 | |
| | USA/Sabine Pass | | United Kingdom | 1 | spot | | 2011 | |



LNG Trade

In 2011, the world LNG trade accounted for 532.35 10⁶ m³ in liquid form (1) or 240.8 10⁶ t, as shown in the following table:

LNG IMPORTS

Belgium 9.03 4.08 5.16 1.7 -7.2 France 23.37 10.53 13.39 4.4 1.2 25.8 Greece 2.03 0.91 1.16 0.4 Italy 13.89 6.27 7.95 2.6 -5.8 Netherlands 1.29 0.58 0.74 0.2 N/A Portugal 4.74 2.14 2.71 0.9 -0.7 Spain 38.51 17.25 22.11 7.2 -16.3 Turkey 10.63 4.80 6.09 2.0 -14.6 U.K. 40.77 18.42 23.30 7.7 29.8 82.62 27.0 Argentina 6.71 2.93 3.89 130.0 1.2 0.61 0.3 Brazil 1.38 0.80 -71.2 Chile 2.78 3.66 27.9 6.32 1.2 Dominican Rep 1.60 0.69 0.93 0.3 11.1 Mexico 6.29 2.84 3.60 1.2 -33.7 Puerto Rico 1.52 0.65 0.88 0.3 21.4 Canada 5.50 2.45 3.16 1.0 166.4 USA 13.82 6.14 7.96 2.5 -25.1 China 28.77 13.06 16.41 36.1 India 27.34 12.33 15.64 5.1 37.4 79.09 98.48 173.16 32.8 11.6 Japan 14.8 78.82 35.55 45.05 8.9 Korea Taïwan 26.93 12.20 15.38 5.1 9.1 Thailand 1.78 0.80 1.02 0.3 N/A Asia 336.81 153.03 63.6 14.8 Kuwait 5.73 2.60 3.27 1.1 30.6 Dubai 2.41 1.08 1.38 0.5 952.2 75.9

SOURCE OF IMPORTS

| | 10 ⁶ m³ liquid | 10 ⁶ t | 10 ⁹ m³ (n) gaseous | share (%) | Var. 2010 / 2011 (%) |
|-------------------|---------------------------|-------------------|-----------------------------------|--------------|----------------------------|
| Algeria | 27.55 | 12.48 | 15.78 | 5.2 | -12.2 |
| Egypt | 14.62 | 6.33 | 8.53 | 2.6 | -5.8 |
| Equatorial Guinea | 8.97 | 3.95 | 5.19 | 1.6 | 8.6 |
| Lybia | 0.13 | 0.06 | 00.7 | 0.0 | -76.9 |
| Nigeria | 41.84 | 18.91 | 23.89 | 7.9 | 5.1 |
| Norway | 5.61 | 2.51 | 3.22 | 1.0 | -28.2 |
| Trinidad & Tobago | 30.11 | 12.98 | 17.52 | 5.4 | -5.7 |
| Atlantic Basin | 128.82 | 57.22 | 74.21 | 23.8 | -4.8 |
| Abu Dhabi | 12.46 | 5.82 | 7.05 | 2.4 | -3.9 |
| Oman | 17.70 | 8.09 | 10.05 | 3.4 | -9.2 |
| Qatar | 166.37 | 75.36 | 95.00 | 31.3 | 32.9 |
| Yemen | 14.39 | 6.36 | 8.30 | 2.6 | 59.6 |
| Middle East | 210.91 | 95.63 | 120.40 | 39.7 | 26.4 |
| Australia | 42.07 | 19.52 | 23.77 | 8.1 | 1.2 |
| Brunei | 15.34 | 7.09 | 8.65 | 2.9 | 6.6 |
| USA | 0.76 | 0.32 | 0.44 | 0.1 | -44.0 |
| Indonesia | 48.87 | 21.88 | 27.97 | 9.1 | -6.9 |
| Malaysia | 54.02 | 24.90 | 30.63 | 10.3 | 6.0 |
| Peru | 8.11 | 3.70 | 4.70 | 1.5 | 205.5 |
| Russia | 23.43 | 10.57 | 13.38 | 4.4 | 8.7 |
| Pacific Basin | 192.61 | 87.98 | 109.54 | 36.5 | 4.2 |
| | | | | | |
| Total | 532.35 | 240.80 | 304.11 | 100.0 | |

QUANTITIES (IN 106 T) RECEIVED IN 2011 BY THE IMPORTING COUNTRIES FROM THE EXPORTING COUNTRIES

| | Algeria | Belgium | Egypt | Equ. Guin. | Libya | Nigeria | Norway | Peru | Spain | Trinidad & Tobago | Abu Dhabi | Oman | Qatar | Yemen | Australia | Brunei | USA | Indonesia | Malaysia | Russia | Total Imports |
|------------------|---------|----------|-------|---------------|-------|---------|--------|------|----------|-------------------------|--------------|------|-------|-------|-----------|--------|----------|-----------|----------|--------|------------------|
| Belgium | - | (0.5)(*) | - | - | - | 0.1 | - | - | - | 0.1 | - | - | 4.2 | 0.3 | - | - | - | - | - | - | 4.1 |
| France | 4.2 | - | 0.6 | - | - | 2.6 | 0.3 | - | - | 0.3 | - | - | 2.4 | 0.1 | - | - | - | - | - | - | 10.5 |
| Greece | 0.6 | - | 0.1 | - | - | 0.1 | - | - | - | 0.0 | - | - | 0.1 | - | - | - | - | - | - | - | 0.9 |
| Italy | 1.2 | - | 0.3 | - | - | - | 0.1 | - | 0.2 | 0.1 | - | - | 4.4 | - | - | - | - | - | - | - | 6.3 |
| Netherlands | 0.1 | 0.1 | 0.1 | - | - | 0.1 | 0.1 | - | - | 0.1 | - | - | 0.2 | - | - | - | - | - | - | - | 0.6 |
| Portugal | 0.1 | - | 0.1 | - | - | 1.9 | 0.1 | - | - | - | - | - | 0.1 | - | - | - | - | - | - | - | 2.1 |
| Spain | 2.9 | 0.2 | 1.7 | - | 0.1 | 4.9 | 0.9 | 1.4 | (0.4)(*) | 1.7 | - | 0.1 | 3.6 | - | - | - | 0.1 | - | - | - | 17.2 |
| Turkey | 3.0 | - | 0.3 | - | - | 1.0 | - | - | - | - | - | - | 0.4 | - | - | - | - | - | - | - | 4.8 |
| U.K. | 0.2 | - | 0.1 | - | - | 0.9 | 0.3 | - | - | 0.4 | - | - | 16.1 | 0.5 | - | - | 0.1 | - | - | - | 18.4 |
| Europe | 12.2 | (0.2) | 3.2 | | 0.1 | 11.4 | 1.7 | 1.4 | (0.3) | 2.7 | | 0.1 | 31.7 | 0.8 | | | 0.2 | | | | 65.0 |
| Argentina | - | - | 0.1 | - | - | 0.3 | - | - | 0.1 | 2.1 | - | - | 0.3 | - | - | - | - | - | - | - | 2.9 |
| Brazil | - | - | - | - | - | 0.1 | - | - | - | 0.2 | - | - | 0.2 | - | - | - | 0.2 | - | - | - | 0.6 |
| Chile | - | - | 0.1 | 1.0 | - | - | - | - | - | 0.8 | - | - | 0.4 | 0.3 | - | - | 0.1 | 0.1 | - | - | 2.8 |
| Domin Rep | - | - | - | - | - | - | 0.1 | - | - | 0.6 | - | - | - | - | - | - | - | - | - | - | 0.7 |
| Mexico | - | - | - | - | - | 0.8 | - | 0.5 | - | - | - | - | 1.3 | 0.1 | - | - | - | 0.1 | - | - | 2.8 |
| Puerto Rico | - | - | - | - | - | - | - | - | - | 0.7 | - | - | - | - | - | - | - | - | - | - | 0.7 |
| Canada | - | - | - | - | - | - | - | - | - | 0.8 | - | - | 1.6 | - | - | - | - | - | - | - | 2.4 |
| U.S.A. | - | - | 0.7 | - | - | 0.0 | 0.3 | 0.3 | - | 2.6 | - | - | 1.9 | 1.2 | - | - | (1.0)(*) | - | - | - | 6.1 |
| Americas | | | 0.8 | 1.0 | | 1.3 | 0.4 | 0.8 | 0.1 | 7.7 | | | 5.8 | 1.7 | | | (8.0) | 0.2 | | | 19.1 |
| China | - | - | 0.2 | 0.1 | - | 0.7 | - | 0.1 | - | 0.3 | - | - | 2.4 | 0.7 | 3.7 | - | 0.1 | 2.6 | 1.8 | 0.3 | 13.1 |
| India | 0.2 | - | 0.5 | - | - | 1.1 | 0.1 | - | - | 0.4 | 0.1 | 0.1 | 9.4 | 0.1 | 0.1 | - | 0.2 | - | 0.1 | - | 12.3 |
| Japan | 0.1 | 0.2 | 0.7 | 1.5 | - | 2.0 | 0.2 | 0.3 | - | 0.3 | 5.6 | 3.8 | 11.9 | 0.1 | 14.1 | 6.4 | 0.4 | 9.2 | 15.2 | 7.1 | 79.1 |
| Korea | - | 0.1 | 0.4 | 0.7 | - | 1.1 | - | 0.7 | - | 1.4 | - | 3.9 | 7.8 | 2.7 | 1.1 | 0.7 | 0.1 | 7.9 | 4.0 | 2.9 | 35.6 |
| Taiwan | - | - | 0.5 | 0.6 | - | 0.7 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 4.1 | 0.1 | 0.3 | - | - | 1.9 | 3.4 | 0.2 | 12.2 |
| Thailand | - | - | - | - | - | 0.1 | - | 0.2 | - | - | - | - | 0.3 | - | - | - | - | 0.1 | - | 0.1 | 0.8 |
| Asia | 0.2 | 0.2 | 2.3 | 2.9 | | 5.6 | 0.4 | 1.5 | 0.1 | 2.4 | 5.8 | 8.0 | 35.9 | 3.8 | 19.3 | 7.1 | 0.8 | 21.7 | 24.5 | 10.6 | 153.0 |
| Kuwait | - | - | 0.1 | - | - | 0.6 | - | - | 0.1 | - | 0.1 | - | 1.3 | - | 0.2 | - | - | - | 0.3 | - | 2.6 |
| Dubai | - | - | - | - | - | 0.1 | - | - | - | 0.2 | - | - | 0.7 | - | 0.1 | - | - | - | 0.1 | - | 1.1 |
| Middle East | - | - | 0.1 | - | - | 0.7 | - | - | 0.1 | 0.2 | 0.1 | - | 2.0 | - | 0.3 | - | - | - | 0.4 | - | 3.7 |
| Total ехроrts | 12.5 | - | 6.3 | 3.9 | 0.1 | 18.9 | 2.5 | 3.7 | - | 13.0 | 5.8 | 8.1 | 75.4 | 6.4 | 19.5 | 7.1 | 0.3 | 21.9 | 24.9 | 10.6 | 240.8 |

^(☆) Re-exports.

SPOT AND SHORT-TERM QUANTITIES (10^3 T) RECEIVED IN 2011 BY THE IMPORTING COUNTRIES FROM THE EXPORTING COUNTRIES

| | Algeria | Belgium | Egypt | Equ. Guin. | Libya | Nigeria | Norway | Peru | Spain | Trinidad & Tobago | Abu Dhabi | Oman | Qatar | Yemen | Australia | Brunei | USA | Indonesia | Malaysia | Russia | Total Imports |
|------------------|---------|----------|---------|---------------|-------|---------|--------|-------|----------|-------------------------|--------------|-------|--------|-------|-----------|--------|----------|-----------|----------|--------|------------------|
| Belgium | - | (504)(*) | - | _ | _ | - | - | - | _ | 55 | - | - | 568 | 269 | - | - | - | _ | _ | _ | 389 |
| France | 94 | - | 57 | - | - | - | 126 | - | - | 178 | - | - | 651 | 120 | - | - | - | - | - | - | 1 226 |
| Greece | 149 | - | 59 | - | - | 86 | - | - | - | 19 | - | - | 143 | - | - | - | - | - | - | - | 456 |
| Italy | 30 | - | - | - | - | - | 58 | - | 162 | - | - | - | - | - | - | - | - | - | - | - | 250 |
| Netherlands | 55 | 63 | 53 | - | - | 58 | - | - | - | 53 | - | - | 235 | - | - | - | - | - | - | - | 517 |
| Portugal | 28 | - | 57 | - | - | - | 59 | - | - | - | - | - | - | - | - | - | - | - | - | - | 144 |
| Spain | 548 | 202 | 355 | - | - | 909 | 423 | 1 394 | (417)(*) | 342 | - | - | 271 | - | - | - | 116 | - | - | - | 4 142 |
| Turkey | - | - | 317 | - | - | - | - | - | - | - | - | - | 434 | - | - | - | - | - | - | - | 752 |
| U.K. | 176 | - | 57 | - | - | 231 | 202 | - | - | 59 | - | - | 3 372 | 253 | - | - | 112 | - | - | - | 4 462 |
| Europe | 1079 | (238) | 955 | - | - | 1 285 | 868 | 1 394 | (255) | 706 | - | - | 5 674 | 643 | - | - | 228 | - | - | - | 12 337 |
| Argentina | - | - | 56 | - | - | 325 | - | - | 145 | 2 090 | - | - | 314 | - | - | - | - | - | - | - | 2 930 |
| Brazil | - | - | - | - | - | 56 | - | - | - | 161 | - | - | 216 | - | - | - | 172 | - | - | - | 605 |
| Chile | - | - | 56 | 185 | - | - | - | - | - | 279 | - | - | 64 | - | - | - | 52 | - | - | - | 635 |
| Domin Rep | - | - | - | - | - | - | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | 55 |
| Mexico | - | - | - | - | - | - | - | 466 | - | - | - | - | 181 | - | - | - | - | - | - | - | 647 |
| Puerto Rico | - | - | - | - | - | - | - | - | - | 111 | - | - | - | - | - | - | - | - | - | - | 111 |
| Canada | - | - | - | - | - | - | - | - | - | - | - | - | 1 642 | - | - | - | - | - | - | - | 1 642 |
| U.S.A. | - | - | 178 | - | - | 49 | - | 348 | - | 1 034 | - | - | 1 229 | 122 | - | - | (978)(*) | - | - | - | 1 982 |
| Americas | | | 290 | 185 | | 430 | 55 | 813 | 145 | 3 675 | | | 3 646 | 122 | | | (753) | - | | | 8 609 |
| China | - | - | 117 | 127 | - | 700 | - | 144 | - | 324 | - | - | 187 | 196 | - | - | 143 | - | 180 | 127 | 2 244 |
| India | 183 | - | 476 | - | - | 818 | 62 | - | - | 373 | 91 | 126 | 1 484 | 109 | 63 | - | 244 | - | 121 | - | 4 151 |
| Japan | 58 | 184 | 716 | 925 | - | 1 608 | 117 | 335 | - | 104 | 752 | 887 | 5 657 | 128 | 937 | - | 352 | 1 607 | 498 | 1 091 | 15 955 |
| Korea | - | 55 | 117 | 726 | - | 1 057 | - | 692 | - | 1 361 | - | 67 | 946 | 944 | 396 | - | 106 | 3 057 | - | 1 140 | 10 663 |
| Taiwan | - | - | 481 | 500 | - | 598 | 122 | 60 | 53 | 54 | 60 | 125 | 868 | 128 | 213 | - | - | - | 61 | 186 | 3 509 |
| Thailand | - | - | - | - | - | 122 | - | 229 | - | - | - | - | 321 | - | - | - | - | 69 | - | - | 742 |
| Asia | 241 | 238 | 1 907 | 2 277 | | 4 904 | 301 | 1 460 | 53 | 2 2 1 6 | 903 | 1 205 | 9 462 | 1 506 | 1 609 | | 845 | 4 734 | 860 | 2 543 | 37 265 |
| Kuwait | - | - | 63 | - | - | 639 | - | - | 57 | - | 60 | - | 1 252 | - | 199 | - | - | - | 335 | - | 2 605 |
| Dubai | - | - | - | - | - | 61 | - | - | - | 114 | - | - | 95 | - | 61 | - | - | - | 60 | - | 391 |
| Middle East | - | - | 63 | - | - | 700 | - | - | 57 | 114 | 60 | - | 1 347 | - | 260 | - | - | - | 395 | - | 2 996 |
| Total exports | 1 320 | - | 3 2 1 5 | 2 462 | - | 7 3 1 9 | 1 224 | 3 667 | - | 6 712 | 962 | 1 205 | 20 129 | 2 271 | 1 869 | - | 320 | 4 734 | 1 255 | 2 543 | 61 206 |

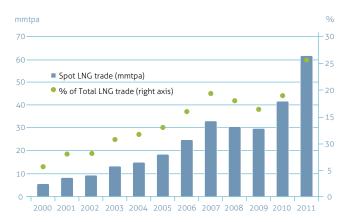
^(*) Re-exports.

Spot and short-term LNG trade development since 2000

70 000 Total Exports 60 000 MiddleEast/Africa/Europe Americas 50,000 — Australasia 40 000 30 000 10 000

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011

Spot and Short-Term LNG Trade & Share of Total LNG Trade since 2000



Note: Short-term trade denotes trades under contracts of a duration of 4 years or less.



LNG tankers

The world LNG tanker fleet consisted of 359 vessels at the end of 2011.

In 2011, high demand in Asian markets combined with the absence of significant additional capacity led to a tighter LNG shipping market and to an escalation of spot charter rates.

16 ships were added to the world LNG tanker fleet during the year (compared with 25 in 2010), leading to an additional capacity of 1.8 10^6 m³, i.e an average capacity of 114 000 m³ per tanker. The order book was up from 20 at the end of 2010 to 59 at the end of 2011, but 53 of the ships ordered will not come into service before 2013.

- Four ships were sold to be scrapped in 2011:
- Bekulan (Mark I, 75 000 m³, delivered in 1973)
- Belais (Mark I, 75 000 m³, delivered in 1974)
- Bekalang (Mark I, 75 000 m³, delivered in 1973)
- Tellier (Mark I, 40 100 m³, delivered in 1974)
- One methane tanker is being converted into a FSRU:
- FSRU Toscana (start-up planned for Q4 2012)
- Two ships are being converted into FSUs:
- Tenaga Empat (130 000 m³, delivered in 1981)
- Tenaga Satu (130 000 m³, delivered in 1982)

59 orders were placed for new ships: 54 using the membrane technique, 3 using the MOSS technique and 2 using the cylinders technique.

4110 voyages completed in 2011

| | | · |
|-------|---------------------|--|
| 1 438 | >> | to Japan (1 356 in 2010) |
| 563 | >> | to Korea (519 in 2010) |
| 1 109 | >> | to Europe (1 194 in 2010) |
| 346 | >>> | to the United States, Puerto Rico, the Dominican Republic, Mexico, Argentina, Brazil, Chile and Canada (379 in 2010) |
| 198 | >> | to Taiwan (180 in 2010) |
| 195 | >> | to India (142 in 2010) |
| 194 | >> | to China (145 in 2010) |
| 11 | >> | to Thailand |
| 39 | >> | to Kuwait (33 in 2010) |
| | | |

to Dubai (3 in 2010)





LAID-UP SHIPS IN 2011

| Name | Capacity | Delivery date | Containment |
|--------------|-----------|---------------|-------------|
| Echigo Maru | 125 800 | 1983 | Moss |
| Galeomma | 126 450 | 1978 | Mark I |
| Gandria | 125 800 | 1977 | Moss |
| Hilli | 126 200 | 1975 | Moss |
| Koto | 125 200 | 1984 | Moss |
| LNG Bonny | 132 600 | 1984 | NO 88 |
| LNG Palmaria | 41 000 | 1969 | Esso |
| Sunrise | 129 400 | 1977 | NO 85 |
| Tenaga Dua | 130 000 | 1981 | NO 88 |
| Tenaga Lima | 130 000 | 1981 | NO 88 |
| Tenaga Tiga | 130 000 | 1981 | NO 88 |
| Wakaba Maru | 125 900 | 1985 | Moss |
| Wilgas | 125 900 | 1984 | Moss |
| TOTAL | 1 574 250 | | |

Total shipping capacity in operation throughout the year 2011 was 51.9 $10^6 \, \text{m}^3$ (with an average capacity per carrier of about 145 000 m^3), while total shipping capacity available on the market at the year-end reached 53.5 $10^6 \, \text{m}^3$, including some 1.8 $10^6 \, \text{m}^3$ of additional capacity from new ships delivered during the year.

In all, **4110** loaded voyages were completed in 2011, compared to 3 951 in 2010.

Due to a higher utilization rate of large size carriers and of Q-Series, the average delivery volume reached 130 000 $\rm m^3$ in 2011, compared with 122 000 $\rm m^3$ in 2010.

17

16 ships delivered in 2011

MEMBRANE TECHNOLOGY (10)

| Official Delivery Date | Ship name | Capacity (m³) | Shipowner | Shipbuilder | Cargo System | Hull number |
|------------------------|------------------------|---------------|--|-------------|--------------|-------------|
| 02/18/2011 | Arkat | 147 000 | Brunei Government 80% Mitsubishi 10% Shell 10% | DSME | NO 96 | DSME 2273 |
| 05/27/2011 | Stena Crystal Sky | 173 400 | Stena 100% | DSME | NO 96 | DSME 2268 |
| 05/31/2011 | Stena Clear Sky | 173 400 | Stena 100% | DSME | NO 96 | DSME 2278 |
| 08/01/2011 | Amali | 147 000 | Brunei Government 80% Mitsubishi 10% Shell 10% | DSME | NO 96 | DSME 2277 |
| 08/30/2011 | Soyo | 160 400 | Mitsui (MBK) 34 % NYK 34% Teekay 32% | SHI | Mark III | SHI 1810 |
| 09/30/2011 | Malanje | 160 400 | Mitsui (MBK) 34 % NYK 34% Teekay 32% | SHI | Mark III | SHI 1811 |
| 10/04/2011 | Sonangol Sambizanga | 160 500 | Sonangol 100% | DSME | NO 96 | DSME 2280 |
| 10/31/2011 | Lobito | 160 400 | Mitsui (MBK) 34% NYK 34% Teekay 32% | SHI | Mark III | SHI 1812 |
| 11/01/2011 | Sonangol Etosha | 160 500 | Sonangol 100% | DSME | NO 96 | DSME 2281 |
| 12/01/2011 | Sonangol Benguela | 160 500 | Sonangol 100% | DSME | NO 96 | DSME 2282 |

MOSS TECHNOLOGY (1)

| Official Delivery Date | Ship name | Capacity (m³) | Shipowner | Shipbuilder | Cargo System | Hull number |
|------------------------|----------------|---------------|--------------------------------------|-------------|--------------|-------------|
| 08/31/2011 | Energy Horizon | 177 000 | NYK Line 90% Tokyo LNG Tanker 10% | KSC | Moss | KSC 1664 |

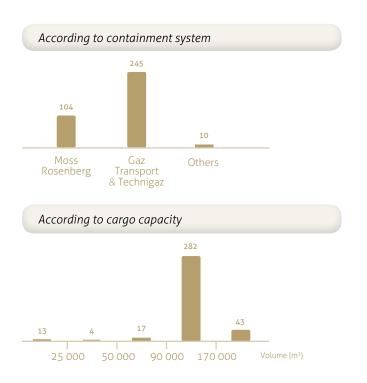
CYLINDERS TECHNOLOGY (5)

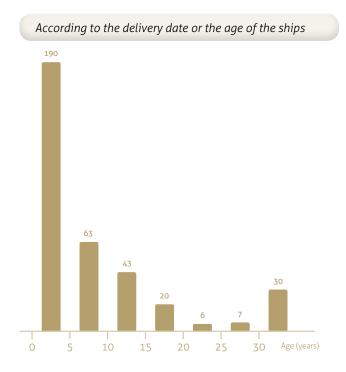
| Delivery Date | Ship name | Capacity (m³) | Shipowner | Shipbuilder | Cargo System | Hull number |
|---------------|----------------------|---------------|---|---------------------------|--------------|-------------|
| 01/10/2011 | Norgas Invention | 10 000 | IM Skaugen 50% GATX 50% | Taizhou Skaugen Wuzhou | Cylinders | WZL0603 |
| 06/30/2011 | Norgas Unikum | 12 000 | Teekay 100% | Dingheng Jiangsu | Cylinders | DJ 2007-001 |
| 10/28/2011 | Bahrain Vision | 12 000 | Bahrain Oil & Gas Holding Company 35% IMS Marine Services 35% Suffun Bahrain 30% | Dingheng Jiangsu | Cylinders | DJ 2007-002 |
| 10/31/2011 | Akebono Maru | 3 500 | Shinwa Chemical Tanker 100% | KHI | Cylinders | KHI 1682 |
| 10/31/2011 | Norgas Conception | 10 000 | IM Skaugen 50% GATX 50% | Taizhou Skaugen Wuzhou | Cylinders | WZL0604 |

Source: GTT.

Tanker distribution

The vessels can be classified as follows (at the end of 2011):





LNG Characteristics (2011 update)

The average composition is chosen as being representative among compositions reported by the different receiving terminals.

| Origin | Nitrogen - N2 | Methane - C1 | Ethane - C2 | Propane - C3 | C4+ | Total | LNG Density (1) kg/m³ | Gas Density (2) kg/m³(n) | Expansion ratio m³(n)/ m³ liq | Gas GCV ⁽²⁾ MJ/m³(n) | Wobbe Index (2) MJ/m³(n) |
|---------------------|------------------|-----------------|----------------|-----------------|-----|-------|--------------------------|-----------------------------|-------------------------------------|------------------------------------|-----------------------------|
| Australia -NWS | 0,0 | 87,3 | 8,3 | 3,3 | 1,0 | 100 | 467 | 0,831 | 562 | 45,3 | 56,5 |
| Australia - Darwin | 0,1 | 87,6 | 10,0 | 2,0 | 0,3 | 100 | 461 | 0,812 | 568 | 44,4 | 56,0 |
| Algéria - Skikda | 0,6 | 90,4 | 7,4 | 0,6 | 0,1 | 100 | 447 | 0,776 | 576 | 42,3 | 54,6 |
| Algeria - Bethioua | 0,6 | 89,5 | 8,2 | 1,3 | 0,3 | 100 | 455 | 0,795 | 572 | 43,2 | 55,1 |
| Algeria - Arzew | 0,7 | 88,9 | 8,4 | 1,6 | 0,4 | 100 | 457 | 0,801 | 570 | 43,5 | 55,2 |
| Brunei | 0,0 | 90,1 | 5,3 | 3,0 | 1,5 | 100 | 462 | 0,818 | 564 | 44,7 | 56,2 |
| Egypt - Idku | 0,0 | 95,3 | 3,6 | 0,7 | 0,3 | 100 | 437 | 0,756 | 578 | 41,8 | 54,6 |
| Egypt - Damietta | 0,0 | 97,3 | 2,5 | 0,1 | 0,1 | 100 | 429 | 0,737 | 582 | 40,9 | 54,1 |
| Equatorial Guinea | 0,0 | 93,4 | 6,5 | 0,1 | 0,0 | 100 | 440 | 0,760 | 579 | 42,0 | 54,7 |
| Indonesia -Arun | 0,1 | 91,9 | 5,7 | 1,6 | 0,8 | 100 | 451 | 0,789 | 571 | 43,3 | 55,4 |
| Indonesia - Badak | 0,0 | 90,1 | 5,5 | 3,0 | 1,4 | 100 | 461 | 0,816 | 565 | 44,6 | 56,2 |
| Indonesia - Tangguh | 0,1 | 96,9 | 2,4 | 0,4 | 0,2 | 100 | 431 | 0,742 | 581 | 41,0 | 54,1 |
| Libya | 0,6 | 82,6 | 12,6 | 3,6 | 0,7 | 100 | 479 | 0,858 | 558 | 46,2 | 56,8 |
| Malaysia | 0,1 | 91,7 | 4,6 | 2,6 | 0,9 | 100 | 454 | 0,798 | 569 | 43,7 | 55,6 |
| Nigeria | 0,0 | 91,7 | 5,5 | 2,2 | 0,6 | 100 | 452 | 0,791 | 571 | 43,4 | 55,5 |
| Norway | 0,5 | 92,0 | 5,7 | 1,3 | 0,4 | 100 | 448 | 0,782 | 574 | 42,7 | 54,9 |
| Oman | 0,2 | 90,7 | 5,8 | 2,1 | 1,2 | 100 | 457 | 0,805 | 568 | 44,0 | 55,7 |
| Peru | 0,6 | 89,1 | 10,3 | 0,1 | 0,0 | 100 | 452 | 0,787 | 547 | 42,9 | 55,0 |
| Qatar | 0,3 | 90,9 | 6,4 | 1,7 | 0,7 | 100 | 453 | 0,795 | 571 | 43,4 | 55,4 |
| Russia - Sakhalin | 0,1 | 92,5 | 4,5 | 2,0 | 1,0 | 100 | 451 | 0,789 | 571 | 43,3 | 55,4 |
| USA - Alaska | 0,2 | 99,7 | 0,1 | 0,0 | 0,0 | 100 | 421 | 0,719 | 586 | 39,9 | 53,5 |
| Trinidad | 0,0 | 96,8 | 2,8 | 0,4 | 0,1 | 100 | 431 | 0,741 | 582 | 41,1 | 54,2 |
| Yemen | 0,0 | 93,2 | 5,9 | 0,8 | 0,1 | 100 | 442 | 0,767 | 577 | 42,3 | 54,9 |

(1) Calculated according to ISO 6578 [T = -160°C]. (2) Calculated according to ISO 6976 [0°C / 0°C, 1.01325 bar].

Delivery dates of the LNG tankers

1969

- SCF Arctic (ex Methane Arctic)
- SCF Polar (ex Methane Arctic)

1970

• LNG Elba

1972

• Bebatik

1973

• Norman Lady

1975

- Annabella
- Belanak
- Bilis
- Bubuk
- Isabella

1976

- Gimi
- Mostefa Ben
- Boulaïd

1977

- Golar Freeze
- Khannur
- Larbi Ben M'Hidi
- LNG Aquarius
- LNG Aries
- LNG Lagos (ex Gastor)
- LNG Port Harcourt

1978

- LNG Capricorn
- LNG Delta (ex Southern)
- LNG Gemini
- LNG Leo
- Methania

1979

- Bachir Chihani
- LNG Libra
- LNG Taurus
- LNG Virgo
- Matthew (ex Gamma)

1980

- LNG Abuja (ex Louisiana)
- LNG Edo (ex Lake Charles)
- Mourad Didouche

1981

- Golar Spirit
- Ramdane Abane
- Tenaga Empat

1982

• Tenaga Satu

1983

- Banshu Maru
- Bishu Maru

1984

- LNG Finima
- Senshu Maru

1989

- Ekaputra
- NW Sanderling
- NW Swallow
- NW Swift

1990

NW Snipe

1991

• NW Shearwater

1992

• NW Seaeagle

1993

- Aman Bintulu
- Arctic Spirit
 (ex Arctic Sun)
- LNG Flora
- NW Sandpiper
- Polar Spirit (ex Polar Eagle)

1994

- Al Khaznah
- Dwiputra
- Hyundai Utopia
- LNG Vesta
- NW Stormpetrel
- Puteri Intan
- Shahamah
- YK Sovereign

1995

- Ghasha
- Hanjin Pyeong-Taek
- Ish
- Puteri Delima
- Puteri Nilam

1996

- Al Zubarah
- Hyundai Greenpia
- Mraweh
- Mubaraz
- Puteri Zamrud
- Surya Aki

1997

- Al Hamra
- Al Khor
- Al Rayyan
- Al Wajbah
- Aman Sendai
- LNG Portovenere
- Puteri Firus
- Puteri Firus
- Umm Al Ashtan

1998

- Al Wakrah
- Aman Hakata
- Broog
- LNG Lerici
- Zekreet

1999

- Al Bidda
- Doha
- Hanjin Muscat
- Hyundai Technopia
- SK Summit

2000

- Al lasra
- Golar Mazoa
- Haniin Ras Laffan
- Hanjin Sur
- Hyundai Aquapia
- Hyundai Cosmopia
- Hyundai Oceanpia
- K Acacia
- K Freesia
- LNG Jamal
- SK Splendor
- SK Stellar
- SK SupremeSurya Satsuma

2001

• Sohar LNG (ex Lakshimi)

2002

- _
- AbadiBritish Trader
- Excalibur
- Galea
- Gallina
- Hispania Spirit (ex Fernando Tapias)
- LNG Rivers
- LING Rivers
 LNG Sokoto
- Puteri Delima Satu
- Puteri Intan Satu

2003

- BW Suez Boston (ex Berge Boston)
- British Innovator
- British Merchant
- BW Suez Everett (ex Berge Everett)
- Castillo de Villalba
- Catalunya Spirit (ex Inigo Tapias)
- Energy FrontierExcel

- Golar Arctic
 (ex Granatina)
- LNG Bayelsa
- Methane
 Princess
- Pacific Notus
- Puteri Nilam Satu
- SK Sunrise

2004

- Berge Arzew
- Bilbao Knutsen
- Cadiz Knutsen
- Disha
- Dukhan
- Fuwairit
- Galicia Spirit
- Gemmata
- Golar Winter
- Lala Fatma
 N'Soumer
- LNG Akwa Ibom
- LNG River Orashi
- Madrid Spirit
- Maersk Ras Laffan
- Methane Kari ElinMuscat LNG
- NW SwanPuteri Firus Satu
- Puteri Zamrud SatuRaahi

- - - -

- 2005
- Al DeebelAl Thakhira
- Energy Advance
- ExcellenceExcelsion
- Gracilis (ex Golar Viking)
- Grandis (ex Golar Mist)
- LNG AdamawaLNG Cross River
- LNG EnuguLNG Pioneer
- Lusail
- Maran Gas AsclepiusNizwa LNG
- Puteri Mutiara SatuSalalah LNG
- Seri AlamUmm Bab

Delivery dates of the LNG tankers (cont'd.)



2006

- Al Marrouna
- Arctic Discoverer
- Arctic Lady
- Arctic Princess
- Arctic Voyager
- Bluesky
- Energy Progress
- Excelerate
- GDF SUEZ Global Energy (ex Gaz de France Energy)
- Golar Maria (ex Granosa)
- Iberica Knutsen
- Ibra LNG
- Ibri LNG
- LNG Benue
- LNG Berge Oyo
- LNG Dream
- LNG Lokoja
- LNG River Niger
- Maersk Qatar
- Methane Jane
- Elizabeth
- Methane Lydon Volney
- Methane Rita Andrea
- Pacific Eurus
- Provalys
- Seri Amanah
- Seri Anggun
- Seri Angkasa
- Simaisma

2007

- Al Areesh
- Al Daayen
- Al Gattara
- Al Gharrafa
- Al Ghariya
- Al Jassasiya
- Al Ruwais
- Al Safliya
- British Emerald

- Cheikh El Mokrani
- Clean Energy
- Clean Power
- Duhail
- Einan
- Gaselys
- Grace Acacia
- Grace Barleria
- Grand Elena

- Maran Gas Coronis
- Methane Alison Victoria
- Methane Nile Eagle

- Neva River (ex. Celestine River)
- Seri Ayu
- Seri Bakti
- Sestao Knutsen
- Sun Arrows
- Tembek

2008

- Al Aamniya
- Al Ghuwairiya
- Al Huwaila
- Al Khuwair
- Al Oraig
- Al Thumama
- Al Utouriya
- Alto Acrux

- LNG Borno
- LNG Kano
- LNG Ogun
- LNG Ondo

- Methane Heather Sally
- Methane Shirley
- Elisabeth
- Neo Energy

- Seri Begawan

- Al Hamla
- Al Kharsaah

- Al Sahla
- Al Shamal
- British Diamond

- British Ruby
- British Sapphire
- Bu Samra • Cheikh Bouamara
- Clean Force
- Dapeng Moon
- Dapeng Sun
- Ebisu
- Energy Navigator
- Explorer
- Fraiha
- Grace Cosmos
- Grand Aniva • Grand Mereya
- Hyundai Ecopia
- K Jasmine
- K Mugungwha
- LNG Barka
- LNG Imo
- Maersk Arwa
- Maersk Marib
- Maersk Methane
- Mozah
- Murwab
- Seri Balhaf
- · Seri Bijaksana
- STX Colt
- Tangguh Batur
- Tangguh Foja
- Tangguh Hiri • Tangguh Jaya
- Tangguh Towuti
- Trinity Arrow
- Umm Al Amad • Umm Slal
- 2009
- Abdel Kader • Al Dafna
- Al Ghashamiya • Al Kharaana Al Kharaitiyat
- Al Khattiya

- Al Mafyar
- Al Mayeda
- Al Nuaman
- Al Rekayyat
- Al Sadd
- Al Samriya
- Al Sheehaniya
- Aseem
- Ben Badis • BW GDF SUEZ
- Brussels
- BW GDF SUEZ Paris
- Cygnus Passage
- Dapeng Star
- Energy Confidence
- Express
- Exquisite
- GDF SUEZ Neptune
- Lijmiliya
- · LNG Jupiter
- Maersk Magellan
- Mekaines
- Mesaimeer
- Min Lu
- Min Rong
- Onaiza • Pacific Enlighten
- Seri Balqis
- Shagra
- Taitar n° I • Taitar n°2
- Tangguh Palung
- Tangguh Sago
- Trinity Glory • Woodside Donaldson

- 2010 • Aamira
- Al Bahiya
- Barcelona Knutsen
- Castillo de Santisteban • Exemplar
- Expedient

- Gas Log Savannah
- Gas Log Singapore
- GDF SUEZ Cape Ann
- GDF SUEZ Point Fortin Maersk Meridian
- Methane Becki Anne
- Methane Julia Louise
- Methane Mickie Harper • Methane Patricia Camila
- Norgas Creation Norgas Innovation
- Rasheeda
- Ribera del Duero Knutsen • Sevilla Knutsen
- STX Frontier
- Taitar N°3 • Taitar N°4
- Valencia Knutsen

Zarga

- 2011
- Akebono Maru

Lobito

- Amali Arkat
- Bahrain Vision • Energy Horizon
- Malanje
- Norgas Conception Norgas Invention
- Norgas Unikum • Sonangol Benguela
- Sonangol Etosha • Sonangol Sambizanga
- Soyo
- Stena ClearSky • Stena CrystalSky

Liquefaction plants

There were 24 LNG liquefaction facilities in operation in eighteen countries at the end of 2011. One single train was commissioned in 2011: Train 4 at Qatargas IV. The aggregate nominal capacity of all liquefaction plants amounted to 609.6 106 m³ of LNG per year (278 mmtpa) for 92 liquefaction trains. Total storage capacity remained stable, with 9.2 106 m³ of LNG for 88 storage tanks, representing the equivalent of about six days of consumption.

In 2011, several FIDs were taken on Australian projects: Gladstone in January, Prelude LNG in May, Australia-Pacific LNG in June, Wheatstone LNG in October. The only non-Australian project to reach FID in 2011 was Donggi-Senoro in Indonesia. All these projects will provide an additional LNG production capacity of 26.8 mmtpa.



New projects/extensions of existing plants

Algeria

• In Algeria, Sonatrach decommissioned Arzew GL4Z (Camel) at the end of 2010, which reduced Algerian LNG production capacity by 0.9 mmtpa. At the end of 2011, Arzew facilities included two existing plants (6 x 1.3 mmtpa trains on one plant and 6 x 1.4 mmtpa trains on the other) for a total capacity of 16.2 mmtpa. Decommissioned capacities will be replaced by a new train in Gassi Touil (Arzew GL3Z). With a capacity of 4.7 mmtpa, GL3Z could be operational by the end of 2013.

Angola

• In Angola, the first 5.2 mmtpa train of Angola LNG was still under construction at year-end 2011. It is expected to start-up production in the second half of 2012. When operational, Angola will become the 19th LNG exporting country. Initially expected to supply the US market, Angola LNG has set up a joint-venture in order to market volumes in other markets given the low price conditions in North America.

Australia

- Pluto LNG: at the end of 2011, the first train (4.3 mmtpa) had been completed and first production is expected first half of 2012; Woodside is securing gas for additional trains to reach FID.
- Queensland Curtis LNG: the first coal bed methane-to-LNG project is now under construction. The project will be composed of two trains (2 x 4.25 mmtpa) and should come on line in 2015. BG (90%) with partner CNOOC (10%) is considering extension up to 12 mmtpa. LNG sales will be delivered to the Asian-Pacific zone and to Chile.
- In addition, several projects made significant progress in 2011: four FIDs were taken and many developments are still under consideration, which could progressively increase Australia's output from about 19.5 mmtpa in 2011 to a target of 100 mmtpa by the end of the decade.
- **Gladstone LNG:** partners Santos (30%), Petronas (27.5%), Total (27.5%) and Kogas (15%) took FID in January for the 2 x 3.9 mmtpa project. Gas supply will come from Queensland's coal bed methane fields and from Cooper Basin's conventional gas fields. Start-up is expected in 2015.
- **Prelude LNG:** FID for this first floating LNG project (3.6 mmtpa) was taken by Shell as 100% owner in May 2011. Inpex joined Shell in March 2012 by acquiring 17.5% of the shares in the project. Total cost is around \$ 12 bn. The project is planned to be operational around 2017-2018 and most of the sales will be made through Shell's portfolio.

Liquefaction plants (cont'd.)

- Australia Pacific LNG: Project partners Origin, Conoco-Philips (42.5% each) and Chinese company Sinopec (15%) took FID for the first train (4.5 mmtpa) in July 2011. The project is expected to come on line in 2016. After Queensland Curtis (QCLNG) and Gladstone, APLNG is the third Coalbed Methane-based LNG plant in Australia.
- Wheatstone LNG: FID was reached in September for this two train facility (2 x 4.45 mmtpa). Chevron (72.14%) is joined by several partners including Apache (13%), Kuwait Petroleum (7%), Shell (6.4%) and Kyushu Electric (1.46%). Most of the LNG will be sold under LT agreements with Japanese customers (SPAs were finalised with TEPCO and Kyushu Electric).
- Ichtys LNG: after finalising SPAs in late 2011, Inpex and Total took FID on the 8.4 mmtpa Ichtys LNG project located in the North West of Australia in January 2012. Construction will probably start in Q2 2012, and first production is expected by the end of 2016. Around 70% of the volumes will be sent to Japan (TEPCO, Tokyo Gas, Osaka Gas, Toho Gas, Chubu Electric, Kyushu Electric & Kansai Electric).
- Gorgon LNG: initially expected to come on line in 2014, the 3x5 mmtpa project will probably be delayed until 2015. Owned by Chevron (47.3%), Shell (25%), Exxon Mobil (25%), Osaka Gas (1.3%), Tokyo Gas (1%) and Chubu (0.4%), Gorgon will mostly supply Asian markets under LT contracts but also spot markets.

Canada

• In British Columbia, the 5 mmtpa **Kitimat** export project will be fed from shale gas plays. Led by Apache (40%), EOG Resources (30%) and Encana (30%), the partnership is facing high costs of transmission of gas feed to the plant. In addition, sales agreements may take some time to be reached, since sellers are seeking oil-linked prices whereas potential buyers may favour hub-based prices (AECO or Henry Hub). Partners plan to reach FID by 2012 and to start LNG production in late 2015.

Indonesia

- Donggi-Senoro LNG reached FID in January. The single train 2 mmtpa project is announced to come on line in the second half of 2014. The plant will be fed by Donggi and Senoro fields. Liquefaction investment could be in the range of \$ 2.8 bn. Project partners include Pertamina (29%), Medco (11%), Mitsubishi (45%) and KOGAS (15%), and LNG volumes will be sold to Japanese power companies (Chubu and Kyushu) and to KOGAS.
- Concerning the **Tangguh** plant, following drilling activities in the Bintuni Bay, BP reported in August 2011 that sufficient reserves had been certified to support the third train. BP is now planning to submit a Plan of Development (POD) to the Indonesian government for the expansion.

Libya

• In Libya, due to the Civil War, output from Libyan liquefaction plant Marsa El Brega stopped in March 2011, causing very limited impact on global LNG supplies.

Nigeria

- At Bonny Island, trains 7 and 8 are still uncertain given other projects in Nigeria including Brass LNG and Olokola LNG.
- With regard to the **Brass LNG** project, front end engineering is now completed and FID is awaited by Q3 2012. Cost estimates are in the range of \$ 15 bn.

Papua New Guinea

• The Papua New Guinea 2 x 6.6 mmtpa project is under construction, and train 1 is expected to come on line in the second half of 2014 (train 2 in 2015). LNG volumes will be sold to Sinopec, CPC and Japanese companies TEPCO and Osaka Gas.



Oatar

• The last 7.8 mtpa **Qatargas** train came on line in February 2011, bringing Qatar's LNG liquefaction capacity to the well publicized number of 77 mmtpa, establishing the country as the leading LNG producing country in the world. In 2011, Qatar produced around 75 mmtpa, i.e more than 30% of the global LNG production, with an average utilization rate of facilities close to 95%.

United States

- In Alaska, the **Kenai** liquefaction plant was expected to be decommissioned in 2011 because of declining reserves, but production was finally extended until at least 2012. In September 2011, ConocoPhillips acquired Marathon's 30% shares in the liquefaction plant, with Marathon remaining involved in the upstream portion of the project. The plant has a license to export LNG until March 2013.
- The 18 mmtpa **Sabine Pass** liquefaction project made significant progress during the year with FEED in early 2011 and 16 mmtpa of long-term SPAs signed with several buyers including BG, Gas Natural, GAIL from India (KOGAS joined them in early 2012). Approval from the US Federal Energy Regulatory Commission (FERC) was given in April 2012. Cheniere plans to begin construction in 2012 and to start production in 2015.
- Freeport LNG is also proposing to add liquefaction infrastructure at its existing regasification terminal to provide export capacity of 13.2 mmtpa of LNG. In February 2011 Freeport LNG received approval from DOE to export LNG to Free Trade Agreement countries. Completion and start-up of the first liquefaction train is expected in early 2017.

Three other projects based on existing regasification terminals have also applied for export licenses: Cameron (Sempra), Lake Charles (BG/Southern Union) and Cove Point (Dominion).

In addition, two greenfield export projects are being proposed: Gulf Coast LNG (in Texas) and Jordan Cove (in Oregon).

The total combined capacity of US export projects could amount to more than 100 mmtpa.

Liquefaction plants 2011

| | | Liquef | action | Sto | rage | | | | |
|----------------------|--------------------|------------------------|--|-----------------------|--|--|--|--|------------------|
| Country | Site | Number of trains | Nominal capacity 10 ⁶ t per year | Number of tanks | Total capacity m³ | Owner | Operator | Buyer | Start-up date |
| | | | | | Atlantic Bas | in | | | |
| | Arzew GL 1Z | 6 | 8,19 | 3 | 300 000 | Sonatrach | Sonatrach | GDF Suez, Botaş, SNAM-Rete, Iberdrola, Depa, Cepsa Gas, Statoil, Endesa | 1981 |
| Algeria | Arzew GL 2Z | 6 | 7,98 | 3 | 300 000 | Sonatrach | Sonatrach | GDF Suez, Botaş, SNAM-Rete, Iberdrola, Depa, Cepsa Gas, Statoil, Endesa | 1972 |
| | Skikda - GL 1K | 3 | 3,13 | 5 | 308 000 | Sonatrach | Sonatrach | GDF Suez, Botaş, SNAM-Rete, Iberdrola, Depa, Cepsa Gas, Statoil, Endesa | 1981 |
| | Damietta | 1 | 5,00 | 2 | 300 000 | Union Fenosa Gas (80%), EGPC (10%), EGAS (10%) | SEGAS SERVICES | Union Fenosa Gas, BP | 2005 |
| Egypt | ldku | 2 | 7,20 | 2 | 280 000 | Egyptian LNG (EGPC, EGAS, BG, GDF SUEZ, Petronas) | Egyptian LNG (EGPC, EGAS, BG, GDF SUEZ, Petronas) | GDF SUEZ | 2005 |
| Equatorial Guinea | Bioko Island | 1 | 3,70 | 2 | 272 000 | Marathon, Sonagas, Mitsui, Marubeni | Marathon | BG Gas Marketing | 2007 |
| Libya | Marsa-el- Brega | 4 | 0,60 | 2 | 96 000 | LNOC | LNOC | GasNatural Fenosa | 1970 |
| | | 3 | 9,60 | 7 | 252 (00 | Nigeria LNG (NNPC, Shell, TOTAL, ENI) | Nigeria LNG Ltd | Enel, Gas Natural Fenosa, Botas, GDF SUEZ, Ren Atlantico | 1999- 2002 |
| Nigeria | Bonny Island | 2 | 8,10 | 3 | 252 600 | Nigeria LNG (NNPC, Shell, TOTAL, ENI) | Nigeria LNG Ltd | BGLT-BGGM, Shell, Iberdrola, Endesa, Ren Atlantico, TOTAL, ENI | 2006 |
| | | 1 | 4,00 | 1 | 84 200 | Nigeria LNG (NNPC, Shell, TOTAL, ENI) | Nigeria LNG Ltd | Total, Shell | 2008 |
| Norway | Hammerfest | 1 | 4,30 | 2 | 250 000 | Statoil, Petoro, Total, GDF SUEZ, RWE, Hess | Statoil | Total, Statoil, GDF SUEZ, Iberdrola | 2007 |
| Trinidad & Tobago | Point Fortin | 4 | 15,10 | 4 | 520 000 | Atlantic LNG (BP, BG, Repsol, NGC) | Atlantic LNG (BP, BG, Repsol, GDF SUEZ, NGC) | GDF Suez, Gas Natural Fenosa (T1), Repsol, BP, BG (T4), Naturgas, Repsol, BP, BG (T2-3) | 1999 |
| | | | | | Middle-Eas | t | | | |
| Abu Dhabi | Das Island | 3 | 5,60 | 3 | 240 000 | Adgas (ADNOC, BP, TOTAL, Mitsui) | Adgas | The Tokyo Electric Power Co. | 1977 |
| 0 | 0-11- | 2 | 7,10 | | 3/2/22 | Oman LNG (Oman gvt, Shell, TOTAL, Korea LNG, Mitsubishi, Mitsui, Partex, Itochu) | Oman LNG | Kogas, Shell, Osaka Gas, BP, Itochu | 2000 |
| Oman | Qalhat | 1 | 3,60 | | Qalhat LNG (Oman gvt, Oman LNG, Itochu, Mitsubishi, Union Fenosa Gas, Osaka Gas) | Qalhat LNG | Mitsubishi, Osaka Gas, Gas Natural Fenosa, Itochu | 2006 | |

Liquefaction plants 2011 (cont'd.)

| | | Liquef | action | Sto | rage | | | | |
|-------------------|--------------------------------------|------------------------|--|-----------------------|-------------------------|--|--------------|--|------------------------------------|
| Country | Site | Number of trains | Nominal capacity 10 ⁶ t per year | Number of tanks | Total capacity m³ | Owner | Operator | Buyer | Start-up date |
| | Ras Laffan (Qatargas 1-T1 & 2) | 2 | 6,40 | 4 | 340 000 | Qatargas (QP, ExxonMobil, TOTAL, Marubeni, Mitsui) | Qatargas I | Chubu Elec, Osaka Gas, Tokyo Gas, Toho Gas, Tohoku Elec, Kansai Elec, Chugoku Elec, Gas Natural Fenosa, PGNiG, PTT | 1999 |
| | Ras Laffan (Qatargas 1-T3) | 1 | 3,10 | | | Qatargas (QP, ExxonMobil, TOTAL, Marubeni, Mitsui) | Qatargas I | Tokyo Gas | 1999 |
| | Ras Laffan (Qatargas 2-T1) | 1 | 7,80 | | | (Qatar Petroleum, ExxonMobil) | Qatargas II | ExxonMobil, Chubu | 2009 |
| | Ras Laffan (Qatargas 2-T2) | 1 | 7,80 | 8 | 1 160 000 | (Qatar Petroleum, TOTAL, ExxonMobil) | Qatargas II | Qatar Petroleum, ExxonMobil, TOTAL | 2009 |
| | Ras Laffan (Qatargas 3-T1) | 1 | 7,80 | 0 | 1 160 000 | Qatar Petroleum, Conoco, Mitsui | Qatargas III | Conoco Philips, Repsol | 2010 |
| Qatar | Ras Laffan (Qatargas 4-T1) | 1 | 7,80 | | | Qatar Petroleum, Shell | Qatargas IV | Shell, Petrochina, Marubeni | 2011 |
| | Ras Laffan (Rasgas 1- T1 & 2) | 2 | 6,60 | 6 | 840 000 | Rasgas 1 (QP, ExxonMobil, Kogas, Itochu, LNG Japan) | RasGas I | Kogas, ENI | 1999- 2000 |
| | Ras Laffan (Rasgas 2- T1) | 1 | 4,70 | | | Rasgas 2 (Qatar Petroleum, Exxon Mobil) | RasGas II | Petronet LNG | 2004 |
| | Ras Laffan (Rasgas 2- T2) | 1 | 4,70 | | | Rasgas 2 (Qatar Petroleum, Exxon Mobil) | RasGas II | Endesa, Edison | 2005 |
| | Ras Laffan (RasGas 2- T3) | 1 | 4,70 | | | Rasgas 2 (Qatar Petroleum, Exxon Mobil) | RasGas II | Petronet, EDF, Distrigas, CPC | March 2007 |
| | Ras Laffan (Rasgas 3 - T1) | 1 | 7,80 | | | Rasgas 3 (Qatar Petroleum, Exxon Mobil) | RasGas III | Petronet, KOGAS, Chevron, Sempra, Statoil | August 2009 |
| | Ras Laffan (Rasgas 3 - T2) | 1 | 7,80 | | | Rasgas (Qatar Petroleum, Exxon Mobil) | RasGas III | ExxonMobil | April 2010 |
| Yemen | Balhaf - Train 1 & 2 | 2 | 6,70 | 2 | 280 000 | Yemen LNG (TOTAL, Kogas, Yemen Gas Co., Hunt Oil Co., SK Corporation, Hyundai, GASSP) | Yemen LNG | Kogas, GDF SUEZ, TOTAL | October 2009 & April 2010 |
| | | | | | Pacific Basiı | ı | | | |
| A ustralia | Withnell Bay | 4 | 12,10 | 4 | 260 000 | NWS LNG JV (Woodside, Shell, BHP, BP Australia, Chevron, Mitsubishi/Mitsui) | Woodside | Tokyo Elec, Chubu Elec, Kansai Elec, Chugoku Elec, Kyushu Elec, Tokyo Gas, Osaka Gas, Shizuoka Gas, Tohoku Elec, Nippon Gas, Kogas, Shell Hazira Gas, DPLNG | 1989 |
| Australia | Withnell Bay | 1 | 4,30 | 1 | 65 000 | Woodside, Shell, BHP, BP, Chevron-Australia, Japan LNG (16,67% each) | Woodside | Tokyo Elec, Chubu Elec, Kansai Elec, Chugoku Elec, Kyushu Elec, Tokyo Gas, Osaka Gas, Shizuoka Gas, Tohoku Elec, Nippon Gas, Kogas, Shell Hazira Gas, DPLNG | 2008 |

Liquefaction plants 2011 (cont'd.)

| | | Liquet | action | Sto | rage | | | | |
|---------------------|--|------------------------|--|-----------------------|-------------------------|--|---|---|------------------|
| Country | Site | Number of trains | Nominal capacity 10 ⁶ t per year | Number of tanks | Total capacity m³ | Owner | Operator | Buyer | Start-up date |
| Australia (cont'd.) | Darwin | 1 | 3,40 | 1 | 188 000 | Darwin LNG (ConocoPhillips, ENI, Santos, Inpex, TEPCo, Tokyo Gas) | ConocoPhillips | Tokyo Electric, Tokyo Gas | 2006 |
| Brunei | Lumut | 5 | 7,20 | 3 | 195 000 | Brunei LNG (Brunei gvnt, Shell, Mitsubishi) | Brunei LNG Sdn Bhd | Tokyo Gas, Tokyo Electric, Osaka Gas, Kogas | 1973 |
| U.S.A. | Kenaï | 1 | 1,40 | 3 | 108 000 | ConocoPhillips | ConocoPhillips | Tokyo Gas, Tokyo Electric | 1969 |
| | Blang Lancang - Arun | 2 | 4,75 | 4 | 508 800 | Pertamina | PT Arun NGL Co. (Pertamina, ExxonMobil, JILCO) | Kogas | 1978- 1979 |
| | Bontang - Badak | 8 | 22,20 | | | | | | |
| | Bontang - Badak A & B | 2 | | | 630 000 | Pertamina | PT Badak NGL Co. (Pertamina, VICO, TOTAL, JILCO) | Kansai Elec, Chubu Elec, Kyushu Elec, Osaka Gas, Toho Gas, Nippon Steel Co. | 1977 |
| Indonesia | Bontang - Badak C & D | 2 | | 6 | | | | Kansai Elec, Chubu Elec, Osaka Gas, Toho Gas | 1983 |
| | Badak E | 1 | | | | | | C.P.C. | 1990 |
| | Badak F | 1 | | | | | | Tokyo Gas, Osaka Gas, Toho Gas, Hiroshima Gas, Nippon Gas | 1994 |
| | Badak G | 1 | | | | | | Kogas | 1998 |
| | Badak H | 1 | | | | | | C.P.C. | 1998 |
| | Tangguh | 2 | 7,60 | 2 | 340 000 | Government of Indonesia | ВР | Posco, K-Power, Sempra LNG, CNOOC, Tohoku Elec | 2009 |
| | Bintulu MLNG 1 (Satu) | 3 | 8,10 | | | Malaysia LNG Sdn Bhd (Petronas, Shell, Mitsubishi) | Malaysia LNG Sdn Bhd | Tokyo Gas, Tokyo Elec, Saibu Gas, Shikoku Electric | 1983 |
| | Bintulu MLNG 2 (Dua) | 3 | 7,80 | | | Malaysia LNG Dua (Petronas, Shell, Mitsubishi, Sarawak state Gvnt) | Malaysia LNG Dua | Tokyo Gas, Osaka Gas, Toho Gas, Kansai Elec, Shizuoka Gas, Tohoku Elec, CPC, Sendai City Gas, Kogas, Chubu Elec | 1995 |
| Malaysia | Bintulu MLNG 2 (Dua) - debottleneck | 1 | 1,50 | 6 | 390 000 | Malaysia LNG Dua (Petronas, Shell, Mitsubishi, Sarawak State Gvnt) | Malaysia LNG Dua | Tokyo Gas, Osaka Gas, Toho Gas, Kansai Elec, Shizuoka Gas, Tohoku Elec, C.P.C, Sendai City Gas, Kogas, Chubu Elec | 2010 |
| | Bintulu MLNG 3 (Tiga) | 2 | 6,80 | | | Malaysia LNG Tiga (Petronas, Shell, Nippon Oil, Mitsubishi, Sarawak State Gvnt) | Malaysia LNG Tiga | Tokyo Gas, Osaka Gas, Toho Gas, Tohoku Elec, Japex, Kogas, CNOOC | 2003 |
| Peru | Peru LNG | 1 | 4,45 | 2 | 260 000 | Hunt Oil (50%), Marubeni (10%), Repsol YPF (20%), SK Corp (20%) | Hunt Oil | Repsol YPF | 2010 |
| Russia | Sakhalin 2 | 2 | 9,55 | 2 | 200 000 | Sakhalin Energy Invest Co. (Gazprom, Shell, Mitsui, Mitsubishi) | Sakhalin Energy Invest Company | Gazprom, Shell, Kogas, Chubu Elec, Hiroshima Gas, Kyushu Elec, Osaka Gas, Saibu Gas, Toho Gas, Tohoku Elec, Tokyo Elec, Tokyo Gas | 2009 |
| | Total | 92 | 278 | 88 | 9207600 | | | | |
| | Totat | 92 | 270 | | 7207000 | | | | |

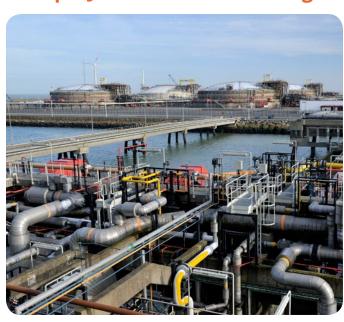
Regasification plants

89 LNG regasification terminals - including 10 floating facilities - where in operation at the end of 2011, compared with 40 terminals in 2001. Over the last ten years, the number of importing countries grew from 11 in 2001 to 25.

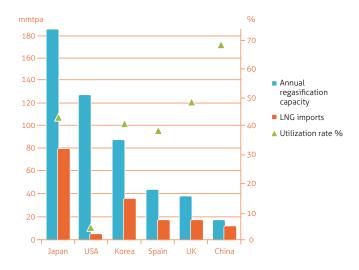
The combined nominal send-out capacity of the facilities reached about 640 mmtpa (868 bcm/y) and total storage capacity amounted to 44.1 106 m³ of LNG (liquid) with 394 tanks. Together, Japan and Korea accounted for 43% of the world's regasification capacity.

Compared to an annual LNG consumption of 240.8 mmtpa, the global average utilization rate of installations remained stable, around 37%. While Asian and European regasification terminals recorded average utilization rates of respectively 45% and 46%, the average utilization rate of US terminals dropped below 5%.

New projects/extensions of regasification units



Regasification capacity vs LNG imports in 2011



Seven new terminals were commissioned in 2011. Combined with the expansion of Fujian, new facilities added 39.2 mmtpa to the existing global regasification capacity.

Argentina

• After **Bahia Blanca** in 2009, Enarsa and YPF started operating a second offshore terminal in the country in Puerto Escobar, 30 miles outside Buenos Aires. With a capacity of 2.7 mmtpa, GNLE (GNL Escobar) was commissioned in June 2011. Like **Bahia Blanca, GNL Escobar** uses a Floating, Storage and Regasification Unit permanently moored at the new port facilities. In the meantime, YPF increased **Bahia Blanca**'s regasification capacity from 10 MMm³/day to a maximum capacity of 14 MMm³/day. Final upgrade to 17 MMm³/day will be performed in 2012.

Belgium

• In **Zeebrugge**, Fluxys decided to construct a second jetty at the LNG terminal for unloading as well as loading LNG ships (including small sizes). The Port of Zeebrugge has just started the construction of the underwater structure and operator Fluxys LNG plans to commission the jetty by early 2015.

China

 At the Fujian LNG receiving terminal (60% owned by CNOOC), two new storage tanks were built in 2011, allowing to bring the terminal's receiving capacity to more than 8 mmtpa.

Two new terminals came online in 2011:

- In May, Petrochina started receiving cargoes at its 3.5 mmtpa terminal located in **Rudong**, Jiangsu province. The Rudong terminal is owned by Kunlun Energy of Hong Kong (55%) in which Petrochina is a majority shareholder, Pacific Oil and Gas (35%) and local government investment company Jiangsu Guozin (10%).
- Also in 2011, Petrochina commissioned its other terminal, located in **Dalian**, Liaoning province. The 3 mmtpa facility is owned by Kunlun Energy of Hong Kong (75%), the port of Dalian (20%) and local government investment company Dalian Construction Investment (5%).

In addition, three land-based terminals are under construction: **Zhejiang, Zhuhai** and **Hainan.**

- Zhejiang LNG receiving terminal is expected to come on stream in August 2012 with an initial receiving capacity of 3 mmtpa. CNOOC is the leading shareholder with 51% of the shares.
- Zhuhai LNG terminal is expected to come on stream in 2013 with an initial capacity of 3.5 mmtpa. CNOOC owns 30% of shares in the terminal.

Regasification plants

- Hainan LNG receiving terminal started construction in August 2011, and is expected to come on stream in 2014 with an initial receiving capacity of 3 mmtpa. The terminal is owned by CNOCC (65%) and Hainan Development Holdings (35%).

In October 2011, CNOOC also started building facilities for a floating LNG receiving terminal in **Tianjin**. The FSRU (145 000 m³ GDF SUEZ Cape Ann) has been reserved with GDF SUEZ in 2011. The terminal is expected to come on stream in 2013 with an initial receiving capacity of 2.2 mmtpa. In a second phase planned for 2015, the terminal's capacity could be brought to 6 mmtpa with the addition of land-based facilities. CNOOC is the only shareholder in the terminal at the moment but is expected to bring on board two other shareholders.

India

• In India, Petronet continued the construction of its 2.5 mmtpa regasification facility at **Kochi** in the State of Kerala. The facility is scheduled to be commissioned by the end of October 2012. The total EPC cost of the additional regasification facility reaches 68 USD Million. In addition, a 2.5 mmtpa second phase could be operational by the end of 2013.

At the **Dabhol** terminal (30% owned by GAIL), commissioning expected in April was delayed in order to dredge the channel and to accommodate 160 000 m³ vessels.

France

• In France, decision was taken to extend **Montoir-de-Bretagne** LNG terminal's life until 2035, while maintaining its capacity. Since Autumn 2011, Montoir-de-Bretagne is ready to receive Q-Max vessels after notably some works in order to reinforce a jetty.

Also in 2011, FID was taken on the new **Dunkerque LNG terminal**, which is expected to come online in 2015. With a capacity of about 10 mmtpa, the terminal will be owned by EDF (65.01%), Fluxys (25%) and Total (9.99%).

Italy

• In Italy, the **Panigaglia** LNG terminal was shutdown in October 2011 in order to install new tube-bundles inside the 4 SCV vaporizers. As a consequence, the total capacity of the plant was formally restored after it had been reduced by one third in 2009 (from 17 500 liquid m³/day to 12 000 liquid m³/day).



Regasification plants (cont'd.)



Japan

• In Japan, Chugoku Electric and JX Nippon Oil completed the construction of a second 160 000 m³ tank at their **Mizushima** LNG terminal in April 2011.

In Joetsu City, Chubu Electric started importing LNG to supply its **Joetsu** combined-cycle plant. The facility is expected to have storage capacity of $540\ 000\ m^3$.

Three new terminals are currently under construction:

- **Ishikari LNG**, developed by Hokkaido Gas and expected to come on stream by the end of 2012 with an initial capacity of 1.4 mmtpa.
- Naoetsu, developed by Inpex, expected in 2014 with an initial capacity of 1.5 mtpa and a 360 000 m³ storage capacity.
- **Hachinohe**, developed by JX Nippon Oil, with expected start-up in 2015 and an initial capacity of 1.5 mmtpa.

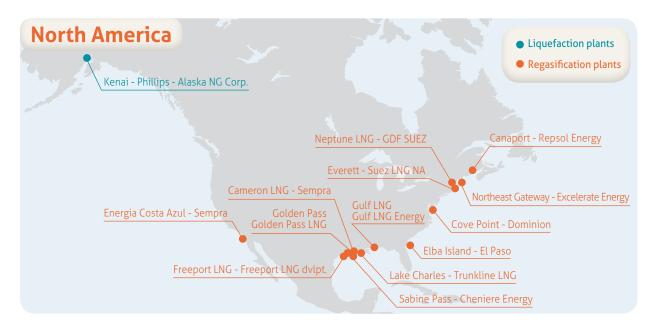
Noteworthy, in November 2011, Chita LNG Terminal (co-owned by Chubu Electric and Toho Gas) received its 3000th LNG tanker since it was launched in 1977.

Мехісо

• In June 2011, a joint-venture of Vopak (60%) and Enagas (40%) announced the acquisition of the LNG storage and regasification terminal in **Altamira**. The jointly controlled entity has acquired 100% of the shares in the terminal from Shell (50%), Total (25%) and Mitsui & Co LTD. (25%) for 408 USD million. Total has no more equity in the facility but preserves its 1.25 Bcm/y subscription of capacities.



Regasification plants (cont'd.)



Netherlands

• In Rotterdam, **Gate LNG** terminal started importing LNG in June 2011, receiving a total of 8 cargoes during the year. With an initial capacity of 8.9 mmtpa, **Gate** comprises three 180 000 m³ storage tanks. The terminal is owned by Vopak (42.5%), Gasunie (42.5%), Essent (5%), Dong (5%) and OMV (5%).

Portugal

• In 2011, the **Sines** LNG Terminal concluded the second phase of its expansion project, which started in 2009 and will finalize in 2012. Completion of the second phase will increase the capacity of the terminal from 3.4 mmtpa to 4.6 mmtpa.

Spain

- In December 2011, the **Sagunto** regasification plant SAGGAS (42.5% owned by GAS NATURAL FENOSA) puts its fourth LNG storage tank into commercial operation. The entry into commercial operation of this new tank allows Saggas to double its initial storage capacity, to 600 000 m³.
- In Barcelona, one new 150 000 m³ tank was commissioned in 2011, bringing the terminal's storage capacity to 840 000 m³.
- In **Bilbao**, BBG (Bahia de Bizkaia Gas) approved the construction of a new tank of 150 000 m³, which implies a 50% increase in the actual storage capacity of the plant. The construction started in 2011 and the new installation is expected to be operational by July 2014.

- In **Gijon (El Musel)**, a new terminal including two 150 000 m³ tanks is currently under construction. With an initial capacity of 5.8 mmtpa, the terminal was expected to be completed by the end of 2012. It will finally be mothballed due to insufficient gas demand.

Thailand

• In Thailand, PTT started up operating its **Map Ta Phut** terminal in the second quarter of 2011, receiving 11 cargoes during the year. The terminal has a capacity of 5 mmtpa.

United States

- In the United States, due to the shift in gas supply and demand balance, Excelerate Energy decided to cease operating its existing 3 mtpa **Gulf Gateway** terminal. Located off the coast of Louisiana, the terminal will be decommissioned in 2012.
- One new terminal (**Gulf LNG**) was commissioned at Pascagoula, in Mississippi. With a capacity of 8.8 mmtpa, the terminal is operated by Gulf LNG Energy, a subsidiary of El Paso (50%) and General Electric (50%).
- In Texas, Golden Pass LNG started commercial operations and received 8 cargoes during the year.



Regasification Terminals in 2011

| | | St | orage | Send out | | | | | Source | Secure un |
|-------------------|--------------------------|-----------------|-------------------------------|-----------------------|---------------------------------|--|--|---|--|--|
| Country | Site | No. of tanks | Total cpcty in cm (liq) | No. of Vaporizers* | Nominal cpcty in NG bcm/y | Owner | Operator | T.P.A. | of import | Start up date |
| | | | | | | AMERICAS | | | | |
| Argentina | Bahia Blanca | 1 | 151 000 | 6 | 5,10 | YPF | YPF | No | Trinidad & Tobago, Egypt, Qatar | June 2008 |
| | Escobar | 1 | 151 000 | 6 | 5,10 | YPF, Enarsa | YPF | No | Trinidad & Tobago, Nigeria, Qatar | 01/05/2011 |
| Brazil | Guanabara Bay | 1 | 138 000 | 2 | 5,00 | Petrobras | Transpetro | No | Trinidad & Tobago, Nigeria | 2009 |
| | Pecem | 1 | 129 000 | 2 | 2,50 | Petrobras | Transpetro | No | Trinidad & Tobago, Nigeria | 2009 |
| Canada | Canaport LNG | 3 | 160 000 | 8 | 10,00 | Repsol Energy Canada Ltd (74.25%), Irving Canaport LP Co. Lmtd (24,75%), Repsol Canada Ltd (0,75%), Irving Canaport GP Co. (0,25%) | Repsol Canada Ltd | Yes (but no RTPA) | Trinidad & Tobago, Qatar | 2009 |
| Chile | Mejillones | 1 | 154 500 | 3 | 2,00 | GNLM | GNLM | Yes | Yemen, Egypt, Trinidad | April 2010 |
| | Quintero | 3 | 334 000 | 3 | 3,65 | GNL Quintero S.A. | GNL Quintero S.A. | Yes | Trinidad & Tobago, Qatar, Equatorial Guinea | 2009 |
| Dominican Rep. | Punta Caucedo | 1 | 160 000 | 2 | 2,32 | AES Andres | AES Andres | No | Trinidad & Tobago | 2003 |
| Мехісо | Altamira | 2 | 300 000 | 5 | 7,80 | Terminal de LNG de Altamira (Vopak 60%, Enagas 40%) | Terminal de LNG de Altamira (Vopak 60%, Enagas 40%) | No | Nigeria, Egypt, Qatar, T&T | August 2006 |
| | Energia Costa Azul | 2 | 320 000 | 6 | 10.33 | Energia Costa Azul (100% Sempra LNG) | Energia Costa Azul | Yes | Indonesia, Qatar, Trinidad & Tobago | May 2008 |
| Puerto Rico | Penuelas | 1 | 160 000 | 2 | 3,75 | EcoElectrica | EcoElectrica | | Trinidad & Tobago | 2000 |
| | Cameron LNG | 3 | 480 000 | 10 | 15,50 | Sempra | Sempra | Yes | Qatar, Trinidad & Tobago | 2009 |
| | Cove Point | 5 | 380 000 | 10 | 10,74 | Dominion Cove Point LNG | Dominion Cove Point LNG | Shell, BP, Statoil, Peakers 1/4 each | Trinidad & Tobago, Egypt | 1978, restarted 2003 |
| | Cove Point Expansion | 2 | 320 000 | 15 | 8,00 | Dominion Cove Point LNG | Dominion Cove Point LNG | Statoil | Norway | 2008 |
| | Elba Island | 5 | 535 000 | 11 | 16,30 | Southern LNG | El Paso | Yes | Egypt, Equatorial Guinea, Nigeria, Trinidad & Tobago, Qatar | 1978, restarted 2001, expanded 2006, expanded 2010 |
| | Everett | 2 | 155 000 | 4 | 6,90 | Distrigas of Mass Co. | GDF SUEZ LNG North America | Yes | Trinidad & Tobago | 1971 |
| U.S.A. | Freeport LNG | 2 | 320 000 | 7 | 18,00 | Freeport LNG Development, L.P. | Freeport LNG Development, L.P. | Yes | Trinidad & Tobago, Egypt, Nigeria, Peru, Yemen | 2008 |
| | Golden Pass | 5 | 775 000 | | 9,80 | QP (70%) Exxon (17,6%), Conoco Philips (12,4%) | Golden Pass LNG | | Qatar | 2010 |
| | Gulf LNG Energy | 2 | 320 000 | | 12,00 | Gulf LNG Energy | El Paso | No | Angola | 2011 |
| | Lake Charles | 4 | 425 000 | 14 | 24,30 | Trunkline LNG | Trunkline LNG | Yes | Algeria, Australia, Egypt, Equatorial Guinea, Malaysia, Nigeria, Trinidad & Tobago, Oman, Qatar | 1982, Infrastructure enhancement project completed March 2010 |
| | Neptune LNG Northeast | 2 | 290 000 | | 3,90 | GDF SUEZ NA | GDF SUEZ NA | | T | 2010 |
| | Gateway | 1 | 150 000 | | 4,60 | Excelerate Energy | | Total, | Trinidad & Tobago | 2008 |
| | Sabine Pass | 5 | 800 000 | 16 | 41,35 | Cheniere Energy | Cheniere Energy | Chevron, CMI | Qatar, Nigeria | 2008 |
| | | | | | ASI | IA-MIDDLE EAST | | | | |
| | Dalian | 2 | 320 000 | 3 | 4,20 | Petrochina | Petrochina | | Australia O-t- | 2011 |
| China | Dapeng, Shenzhen | 3 | 480 000 | 7 | 9,00 | GDLNG | GDLNG | No | Australia, Qatar, Nigeria, Equatorial Guinea, Malaysia, Russia, Oman, Yemen, UAE, Indonesia, Egypt, Algeria, Peru, Trinidad | 2006 |
| | Fujian | 2 | 320 000 | | 3,70 | Fujian LNG (CNOOC 60%, Fujian NV & Dev. Corp. 40%) | Fujian LNG | No | Egypt , Equatorial Guinea | 2008 |
| | Rudong | 2 | 320 000 | 3 | 4,20 | Petrochina | Petrochina | | | 2011 |

| | | St | orage | Send | out | | | | | |
|---------|--|-----------------|-------------------------------|-----------------------|---------------------------------|---|--|--|---|------------------------------------|
| Country | Site | No. of tanks | Total cpcty in cm (liq) | No. of Vaporizers* | Nominal cpcty in NG bcm/y | Owner | Operator | T.P.A. | Source of import | Start up date |
| | Shanghai, Mengtougou | 3 | 120 000 | | 0,20 | Shanghai Gas Group | Shanghai Gas Group | | Malaysia | 2008 |
| China | Shanghai, Yangshan (Ximentang Isle) | 3 | 495 000 | | 4,10 | Shanghai LNG (CNOOC 45%, Shenergy Group Ltd 55%) | Shanghai LNG | No | Malaysia | 2009 |
| Dubaï | Jebel Ali | 1 | 125 850 | | 3,00 | Dubaï Supply Authorities (DUSUP) | Dubaï Supply Authorities (DUSUP) | No | Qatar | 2010 |
| | Dahej | 4 | 592 000 | 19 | 12,50 | Petronet LNG | Petronet LNG | Yes (on a cargo by cargo basis) | Qatar, USA, Egypt, Nigeria, Malaysia, Trinidad & Tobago, Oman, Norway | 2004, expansion in July 2009 |
| India | Hazira | 2 | 320 000 | 5 | 3,40 | Hazira LNG Private Ltd (74% Shell, 26% Total) | Hazira LNG Private Ltd | No | Nigeria, Egypt, Algeria, Oman, Qatar, Qatar/Belgium, Australia, T&T, Abu Dhabi, Norway, Equatorial Guinea | April 2005 |
| | Chita | 7 | 640 000 | 11 | 14,78 | Chita LNG | Chita LNG | Yes | Indonesia, Malaysia, Australia, Qatar, Algeria | 1983 |
| | Chita Kyodo | 4 | 300 000 | 14 | 9,74 | Toho Gas / Chubu Elec | Toho Gas | Yes | Indonesia, Malaysia, Australia, Qatar, Russia | 1978 |
| | Chita- Midorihama Works | 2 | 400 000 | 7 | 9,20 | Toho Gas | Toho Gas | Yes | Indonesia, Malaysia, Australia, Qatar, Russia | 2001 |
| | Fukuoka | 2 | 70000 | 7 | 1,10 | Saibu Gas | Saibu Gas | " | Malaysia | 1993 |
| | Futtsu | 10 | 1110000 | 13 | 26,00 | Tokyo Electric | Tokyo Electric | Yes | Indonesia, Malaysia, Qatar, Australia, Oman, Abu Dhabi, Brunei, Russia | 1985 |
| | Hatsukaichi | 2 | 170 000 | 4 | 1,15 | Hiroshima Gas | Hiroshima Gas | No | Indonesia, Malaysia, Russia | 1996 |
| | Higashi- Ohgishima | 9 | 540 000 | 9 | 18,00 | Tokyo Electric | Tokyo Electric | Yes | Indonesia, Malaysia, Qatar, Australia, Oman, Abu Dhabi, Brunei, Russia | 1984 |
| | Himeji | 8 | 740 000 | 6 | 6,40 | Osaka Gas | Osaka Gas | Yes | Indonesia, Malaysia, Australia, Qatar, Oman, Brunei | 1984 |
| | Himeji LNG | 7 | 520 000 | 8 | 11,00 | Kansai Electric | Kansai Electric | Yes | Indonesia, Malaysia, Qatar, Australia | 1979 |
| | Joetsu | | | _ | 2,50 | Chubu Electric | | | | 2011 |
| | Kagoshima Kawagoe | 4 | 86 000 480 000 | 4 | 0,30 6,69 | Nippon Gas Chubu Electric | Nippon Gas Chubu Electric | No Yes | Indonesia, Australia Indonesia, Malaysia, Australia, Qatar, Russia | 1996 1997 |
| | Mizushima | 1 | 160 000 | 3 | 1,30 | Mizushima LNG | Mizushima LNG | Yes | Australia, Qatar, | 2006 |
| _ | Nagasaki | 1 | 35 000 | 3 | 0,20 | Saibu Gas | Saibu Gas | Yes | Oman Malaysia, Russia | 2003 |
| Japan | Negishi | 14 | 1 180 000 | 14 | 15,4 | Tokyo Gas / Tokyo Electric | Tokyo Gas / Tokyo Electric | Negotiated TPA | Indonesia, Malaysia, Australia, Qatar, Brunei, Russia | 1969 |
| | Niigata | 8 | 720 000 | 14 | 11,60 | Nihonkai LNG | Nihonkai LNG | Yes | Indonesia, Malaysia, Qatar, Australia, Russia | 1984 |
| | Ohgishima | 3 | 600 000 | 10 | 12,40 | Tokyo Gas | Tokyo Gas | Negotiated TPA | Indonesia, Malaysia, Australia, Qatar, Russia | 1998 |
| | Oita | 5 | 460 000 | 6 | 6,27 | Oita LNG | Oita LNG | Yes | Indonesia, Australia, Russai, Algeria | 1990 |
| | Sakai | 3 | 420 000 | 6 | 8,70 | Kansai Electric | Kansai Electric | Yes | Indonesia, Malaysia, Australia, Qatar | 2006 |
| | Sakaide | 1 | 180 000 | 3 | 1,64 | Sakaide LNG | Sakaide LNG | V | Malaysia | 2010 |
| | Senboku I Senboku II | 18 | 180 000 1 585 000 | 5 15 | 2,94 15,70 | Osaka Gas Osaka Gas | Osaka Gas Osaka Gas | Yes Yes | Brunei Indonesia, Malaysia, Australia, Qatar, Oman, Brunei, Russia | 1972 1977 |
| | Shin-Minato | 1 | 80000 | 3 | 0,38 | Gas Bureau | Gas Bureau,City of Sendai | No | Malaysia | 1997 |
| | Sodegaura | 35 | 2660000 | 36 | 41,60 | Tokyo Gas / Tokyo Electric | Tokyo Gas / Tokyo Electric | Negotiated TPA | Indonesia, Malaysia, Australia, Qatar, Brunei, Russia | 1973 |
| | Sodeshi | 3 | 337 200 | 8 | 3,90 | Shimizu LNG | Shimizu LNG | No | Malaysia, Australia, Qatar, Nigeria, Indonesia, Russia | 1996 |
| | Tobata | 8 | 480 000 | 9 | 10,28 | Kita Kyushu | Kita Kyushu LNG | No | Indonesia, Australia, Russia, Equat. Guinea, Qatar | 1977 |
| | Yanai | 6 | 480 000 | 5 | 3,10 | Chugoku Elec | Chugoku Electric | Yes | Australia, Qatar, Oman | 1990 |
| | Yokkaichi LNG Centre | 4 | 320 000 | 8 | 8,68 | Chubu Electric | Chubu Electric | Yes | Indonesia, Malaysia, Australia, Qatar, Russia | 1988 |
| | Yokkaichi Works | 2 | 160 000 | 4 | 2 | Toho Gas | Toho Gas | Yes | Indonesia | 1991 |

| | | St | orage | Send | out | | | | Source | |
|--------------------|--------------------------|--------------|-------------------------------|-----------------------|---------------------------------|---|---|----------------------|---|-------------------------------|
| Country | Site | No. of tanks | Total cpcty in cm (liq) | No. of Vaporizers* | Nominal cpcty in NG bcm/y | Owner | Operator | T.P.A. | of import | Start up date |
| | Gwangyang | 3 | 365 000 | 2 | 2,30 | Posco | Posco | No | Indonesia | 2005 |
| | Incheon | 20 | 2 880 000 | 37 | 47,78 | Kogas | Kogas | No | Indonesia, Malaysia, T&T, Brunei, Qatar, Oman, Egypt, Australia, Algeria, Nigeria, Equatorial Guinea | 1996 |
| Korea | Pyeong-Taek | 21 | 2 960 000 | 34 | 47,30 | Kogas | Kogas | No | Indonesia, Malaysia, T&T, Brunei, Qatar, Oman, Egypt, Australia, Algeria, Nigeria, Equatorial Guinea | 1986 |
| | Tong-Yeong | 16 | 2 480 000 | 12 | 20,76 | Kogas | Kogas | No | Indonesia, Malaysia, T&T, Brunei, Qatar, Oman, Egypt, Australia, Algeria, Nigeria, Equatorial Guinea | 2002 |
| Kuwait | Mina Al Ahmadi | 1 | 150 000 | | 7,07 | KNPC | Excelerate Energy, KNPC | | Australia, Malaysia, Russia | 2009 |
| Taiwan | Taichung | 3 | 480 000 | 6 | 9,00 | C.P.C. | C.P.C. | No | Qatar | 2009 |
| Idiwaii | Yung-An | 6 | 690 000 | 16 | 23,00 | C.P.C. | C.P.C. | No | Indonesia, Malaysia Oatar, Nigeria, Peru, | 1990 |
| Thaïland | Map Ta Phut | 2 | 320 000 | | 6,50 | PTT LNG | PTT LNG | | Russia, Indonesia | 2011 |
| | | | | | | EUROPE | | | | |
| Doloium | 7 h | , | 780 000 | 11 | 0.00 | Flunca I NC | Flore to LNC | Vee | Qatar, Egypt, | 1007 |
| Belgium | Zeebrugge Fos-Cavaou | 3 | 380 000 330 000 | 11 | 9,00 8,25 | Fluxys LNG Société du Terminal Méthanier de | Fluxys LNG | Yes Yes | Norway, T&T, Nigeria Algeria, Egypt, Nigeria, Norway, | 1987 2009 (commercial |
| | LO2-CAVAOU | 3 | 330 000 | 4 | 0,25 | Fos-Cavaou (Elengy, Total) | Elengy | res | Qatar, Trinidad & Tobago, Yemen | operation from April 2010) |
| France | Fos-sur-Mer | 3 | 150 000 | 12 | 5,50 | Elengy | Elengy | Yes | Algeria, Egypt | 1972 |
| | Montoir-de- Bretagne | 3 | 360 000 | 11 | 10,00 | Elengy | Elengy | Yes | Algeria, Egypt, Nigeria, Norway, Qatar, Trinidad & Tobago, Yemen | 1980 |
| Greece | Revithoussa | 2 | 130 000 | 6 | 5,00 | Depa S.A. | Depa S.A. | No | Algeria | 2000 |
| Italy | Panigaglia | 2 | 100 000 | 4 | 3,32 | GNL Italia S.p.A.** | GNL Italia S.p.A.** | Yes | YPF, Enarsa | YPF |
| N. 4. 1. 1. | Rovigo (Atlantic LNG) | 2 | 200 000 | 5 | 8,00 | Adriatic LNG (Qatar Petroleum, Edison, Exxon) | Adriatic LNG (Qatar Petroleum, Edison, Exxon) | Yes (20%) | Qatar | 2009 |
| Netherlands | Gate LNG | 3 | 540 000 | | 8,90 | Gasunie, Vopak | Gate LNG | yes | various sources Nigeria, Qatar, T&T, | 2011 |
| Portugal | Sines | 2 | 240 000 | 5 | 7,60 | Ren Atlantico | Ren Atlantico | Yes | Egypt, Equatorial Guinea Algeria, Egypt, | 2004 |
| | Barcelona | 8 | 840 000 | 13 | 17,08 | Enagas | Enagas | Regulated T.P.A. | Libya, Nigeria, Oman, Qatar, T&T, Norway, Peru | 1969 |
| | Bilbao | 2 | 300 000 | 4 | 7,00 | Enagas, Infrastructure Arzak 2, BV, EVE | Bahia de Bizkaia Gas, SL (BBG) | Regulated T.P.A. | Algeria, Nigeria, Norway, T&T, Qatar, Peru, USA, Belgium | 2003 |
| | Cartagena | 5 | 587 000 | 9 | 11,83 | Enagas | Enagas | Regulated T.P.A. | Algeria, Egypt, Libya, Nigeria, Oman, Qatar, T&T, Norway, Peru | 1989 |
| Spain | Huelva | 5 | 610 000 | 9 | 11,83 | Enagas | Enagas | Regulated T.P.A. | Algeria, Belgium, Egypt, Libya, Nigeria, Oman, Qatar, T&T, | 1988 |
| | Mugardos | 2 | 300 000 | 3 | 3,60 | Gas Natural Fenosa, Endesa, Xunta Galicia, Sonatrach, Tojeiro Group, Galicia Government, Caixa Galicia, Pastor, Caixanova | Reganosa | Regulated T.P.A. | Norway, Peru Algeria, Nigeria, T&T, Oman, Qatar | 2007 |
| | Sagunto | 4 | 600 000 | 5 | 8,76 | Gas Natural Fenosa, RREEF Alternative Investments, Endesa, Oman Oil Holding Spain | Saggas | Regulated T.P.A. | Algeria, Libya, Qatar, T&T, Nigeria, Oman, Egypt | 2006 |
| | Aliaga/Izmir | 2 | 280 000 | 5 | 6,00 | Egegaz | Egegaz | No | Algeria | 2006 |
| Turkey | Marmara Ereglisi | 3 | 255 000 | 7 | 6,20 | Botas | Botas | No | Algeria, Nigeria | 1994 |
| United- Kingdom | Dragon | 2 | 320 000 | 6 | 6,00 | BG Group, Petronas | Dragon LNG | Yes (but no RTPA) | Egypt, Nigeria, Norway, Trinidad & Tobago, Qatar | 2009 |
| | Isle of Grain | 8 | 1 000 000 | 14 | 19,50 | National Grid | Grain LNG | Yes (but no RTPA) | Algeria, Egypt, Qatar, T&T, Norway, Australia | 2005 |
| | South Hook | 5 | 775 000 | 15 | 21,00 | Qatar Petroleum, Exxon Mobil, Total | South Hook LNG Terminal Company Ltd | Yes | Qatar | 2009 |
| | Teesside | 1 | 138 000 | | 4,60 | Excelerate Energy | , , | | Trinidad & Tobago | 2007 |
| | TOTAL | 394 | 44 053 550 | 662 | 868,1 | | | | | |

Long-term and medium-term contracts in force in 2011^(*)

| Ref. | Trade | Ехрогt | Seller | Import | Buyer | Nominal quantity ACQ 10 ° t/year | Duration | Type of contract | Comments |
|---------------------|----------------------------------|---------------------------|-----------------------------------|--|-------------------------------------|---|--------------------|------------------|--|
| | | | | ATLANTIC | BASIN | • | | • | |
| DZ-F 1 | Algeria-France | Arzew-Bethioua | Sonatrach | Fos - Montoir | GDF SUEZ | 1.3 | 1992/2013 | F.O.B. | extension to 2019 |
| DZ-F 2 | Algeria-France | Skikda | Sonatrach | Fos | GDF SUEZ | 2.5 | 1972/2013 | F.O.B. | extension to 2019 |
| DZ-F 3 | Algeria-France | Bethioua | Sonatrach | Fos - Montoir | GDF SUEZ | 3.7 | 1976/2013 | F.O.B. | extension to 2019 |
| DZ-GR | Algeria-Greece | Arzew-Skikda | Sonatrach | Revithoussa | DEPA S.A. | 0.5 | 2000/2021 | F.O.B. | extension to 2019 |
| DZ-I 1 | Algeria-Italy | Skikda-Bethioua | Sonatrach | Panigaglia | Eni | 1.40 | 1997/2014 | F.O.B. | Eni LNG portfolio |
| DZ-I 2 | Algeria-Italy | Skikda- Bethioua-Arzew | Sonatrach | Panigaglia | Enel | 0.94 | 1999/2022 | D.E.S. | Swap GDF SUEZ/Enel linked with the NIG-F 2 contract |
| DZ-SP 2 | Algeria-Spain | Skikda-Bethioua | Sonatrach | Barcelona, Huelva, Cartagena, Sagunto | Endesa | 0.75 | 2002/2017 | D.E.S. | |
| DZ- SP 3 | Algeria-Spain | Skikda-Bethioua | Sonatrach | Barcelona, Huelva, Cartagena, Sagunto | Cepsa | 0.77 | 2002/2022 | D.E.S. | |
| | Algeria-Spain | Arzew-Bethioua | Sonatrach | Barcelona, Huelva, Cartagena, Sagunto | Iberdrola | 1.15 | 2002/2021 | D.E.S. | |
| DZ -SP 4 | Algeria/ Nigeria-Spain | ENI LNG Portfolio | Eni | Spain | Iberdrola | 0.92 | 2002-2018 | D.E.S. | Eni LNG portfolio |
| | Algeria/ Nigeria-Spain | ENI LNG Portfolio | Eni | Spain | Hidroecantabrico + EDP | 0.36 | 2005-2016 | D.E.S. | Eni LNG portfolio |
| | Algeria/ Nigeria-Spain | ENI LNG Portfolio | Eni | Spain | E.On Espana | 0.65 | 2007/2022 | D.E.S. | Eni LNG portfolio |
| DZ-TR | Algeria-Turkey | Arzew-Bethioua | Sonatrach | Marmara Ereglisi | Botas | 3 | 1994/2014 | D.E.S. | |
| DZ-US | Algeria-USA | Arzew-Bethioua | Sonatrach | Cove Point | Statoil | 0.75 | 2003/2009 | D.E.S. | Extension 2014 |
| EG-EU | Egypt-Europe | ldku | ELNG | Montoir, Fos | GDF SUEZ | 3.6 | 2005/2025 | F.O.B. | |
| EG-SP | Egypt-Spain | Damietta | EGAS | Spain, other | BPGM | 1.0 | 2005/2025 | F.O.B. | |
| EG-SP | Egypt-Spain | Damietta | EGAS | Barcelona, Huelva | Union Fenosa gas | 3.3 | 2005/2029 | F.O.B. | |
| EG-US | Egypt-U.S.A. | ldku | Egypt LNG T2 | Lake Charles, LA | BGGM | 3.6 | 2006/2023 | F.O.B. | |
| EqG-US | Equatorial Guinea - U.S.A. | Equatorial Guinea | Equatorial Guinea Train 1,S.A. | Lake Charles, LA | BGGM | 3.4 | 2007/2023 | F.O.B. | |
| LY-SP | Libya - Spain | Marsa-el-Brega | NOC | Barcelona, Huelva Cartagena, Sagunto | Gas Natural Fenosa | 0.55 | 1981/2004 | F.O.B. | Extension 2012 |
| NIG-F 1 | Nigeria-France | Bonny Island | Nigeria LNG | Montoir | GDF SUEZ | 0.33 | 1999/2022 | D.E.S. | |
| NIG-F 2 | Nigeria-France | Bonny Island | Nigeria LNG | Montoir | Enel | 2.4 | 1999/2022 | D.E.S. | Swap GDF SUEZ/Enel |
| NIG I-SP | Nigeria - Spain or USA | Bonny Island | Nigeria LNG | Ba. H.Cart. Bil. | Gas Natural Fenosa | 1.17 | 1999/2021 | D.E.S. | |
| NIG II-SP | Nigeria - Spain or USA | Bonny Island | Nigeria LNG | Ba. H.Cart. | Gas Natural Fenosa | 1.99 | 2002/2024 | D.E.S. | |
| NIG III-SP | Nigeria - Spain | Bonny Island | Nigeria LNG | Ba. H.Cart. Bil.Sag. | Endesa | 0.75 | 2005/2025 | D.E.S. | |
| NIG IV-SP | Nigeria - Spain | Bonny Island | Nigeria LNG | Ba. H.Cart. Bil.Sag. | Iberdrola | 0.38 | 2005/2025 | D.E.S. | |
| | Nigeria - Spain | Bonny Island | Nigeria LNG | Huelva | Eni | 1.15 | 2006/2028 | D.E.S. | Eni LNG portfolio |
| NIG V-SP | Nigeria-Spain | Bonny Island | Nigeria LNG Gas Natural | Huelva | Galp Energia | 0.18 | 2005/2016 | D.E.S. | Eni LNG portfolio |
| NIC TD | Spain-Spain | Bonny Island | Aprovisionamientos | Spain Spain | Iberdrola | 1.0 | 2003/2020 | D.E.S. | |
| NIG-TR | Nigeria-Turkey | Bonny Island | Nigeria LNG | Marmara Ereglisi | Botas | 0.9 | 1999/2021 | D.E.S. | |
| NIG-P | Nigeria-Portugal | Bonny Island | Nigeria LNG | Sines | Galp Energia | 1.42 | 2006/2026 | D.E.S. | |
| NIG-P | Nigeria-Portugal | Bonny Island | | Sines | Galp Energia | 0.73 | 2002/2022 | D.E.S. | |
| NIG-P | Nigeria-Portugal | Bonny Island | Nigeria LNG | Sines | Galp Energia | 0.26 | 1999/2022 | D.E.S. | |
| NIG-US NIG-US/EU | Nigeria-USA Nigeria/USA or EU | Bonny Island Bonny Island | Nigeria LNG Nigeria LNG | Lake Charles, LA US Gulf Coast/ | BGLS Total | 2.3 | 2004/2023 | D.E.S. | |
| | Nigeria-US/Mexico | Bonny Island | _ | Europe US/GOM | | | 2007/2026 | D.E.S. | |
| NIG-US/MEX | Nigeria-US/ | Bonny Island | Nigeria LNG Nigeria LNG | Spain/US/GOM | Shell Western LNG Shell Western LNG | 1.13 | 2007/2028 | D.E.S. | |
| | Nigeria-US/Mexico | Bonny Island | Nigeria LNG | US/GOM | Shell Western LNG | 1.74 | 2009/2028 | D.E.S. | |
| NO-GoM/ EU | Norway - GoM/EU | Hammerfest | Total E&P Norge | Gulf of Mexico / Europe | Total | 0.7 | 2007/2027 | D.E.S. | |
| NO - EU | Norway-Europe | Hammerfest | GDF SUEZ | Hammerfest | European terminals | 0.5 | 2007/ depletion | F.O.B. | |
| NO-US | Norway - USA | Hammerfest | Statoil, RWE, Hess, Petoro | Cove Point | Statoil Natural Gas | ~1.75 | 2006/2026 | D.E.S. | |
| NO-SP | Norway - Spain | Hammerfest | Statoil, RWE, Hess | Spain | Iberdrola | 1.13 | 2006/2023 | D.E.S. | |
| TT I-SP | T&T - Spain or USA | Point Fortin | Atlantic LNG | Cart.Ba. H. Bil. | Gas Natural Aprovisionamentos | 1.06 | 1999/2018 | F.O.B. | |

^(*) Duration above four years

| Ref. | Trade | Еxport | Seller | Import | Buyer | Nominal quantity ACQ 10 ⁶ t/year | Duration | Type of contract | Comments | | | |
|--------------------|-----------------------------|---|--|---|------------------------------|--|----------------|--------------------------------|-----------|-----------|--------|--|
| TT II-SP | T&T - Spain or USA | Point Fortin | Atlantic 2/3 | Cart.Ba. H. Bil. | Gas Natural sdg | 0.65 | 2002/2023 | F.O.B. | | | | |
| TT-SP | T&T - Spain | Point Fortin | Atlantic 2/3 | Cartagena/BBE | Repsol | 1.13 | 2006/2023 | F.O.B. | | | | |
| TT-SP | T&T - Spain | Point Fortin | Atlantic 2/3 | Spain | Naturgas Energia | 0.7 | 2003/2023 | F.O.B. | | | | |
| TT-US 1 | T&T - U.S.A. | Point Fortin | Atlantic 2/3 | Everett/Penuelas | GDF SUEZ NA | 1.63 | 1999/2018 | F.O.B. | | | | |
| TT-US 2 | T&T - U.S.A. | Point Fortin | Atlantic 2/3 | Everett/Penuelas | GDF SUEZ NA | 0.34 | 2000/2020 | F.O.B. | | | | |
| TT-US 3 | T&T - U.S.A. | | Atlantic 2/3 | USA, Other | BP Gas Marketing | 0.8 | 2002/2021 | | | | | |
| TT-US 4 | T&T - U.S.A. | | Atlantic LNG | Elba Island, GA Lake Charles, LA | BG | 2.2 | 2004/2024 | F.O.B. | | | | |
| TT-US | T&T - U.S.A. | | Atlantic LNG 4 | USA, Other | ВР | 2.5 | 2006/2025 | - | | | | |
| TT-US | T&T - U.S.A. | Point Fortin | Atlantic LNG 4 | | BG | 1.5 | 006/2025 | | | | | |
| TT- Ca | T&T - Canada | | Atlantic LNG 4 | Canaport | Repsol | 1.0 | 2009/2027 | D.E.S. | | | | |
| TT-DR | T&T - Dominican Republic | | BP | Punta Caucedo | AES | 0.75 | 2003/2023 | D.E.S. | | | | |
| TT-PR | T&T - Puerto Rico | | | Penuelas | Ecoelectrica | 0.6 | 2000/2020 | | | | | |
| | | | | PACIFIC BA | ASIN | | | | | | | |
| AU-CN | Australia - China | Withnell Bay | BHP Billiton Petroleum (North West Shelf) Pty.Ltd., BP Developments Australia, Chevron Australia, Japan Australia LNG (MIMI) Pty. Ltd. Shell Development Australia, Woodside Energy Ltd., CNOOC NWS Private Ltd. | Dapeng, Shenzhen | GDLNG | 3.3 | 2006/2031 | F.O.B. | | | | |
| AU-JP1 | | | Woodside Energy, Japan Australia LNG, Shell Development Australia, BHP Billiton Petroleum, BP Development, Chevron Australia Australia | Yanai, Mizushima | Chugoku Electric | 1.43 | 2009/2021 | D.E.S. | | | | |
| AU-JP2 | | - | | - | | Shell Development Australia BHP Billiton Petroleum | Oita, Tobata | Kyushu Electric | 0.7 | 2009/2017 | F.O.B. | |
| AU-JP3 | | | | | BP Development Australia | Chita, Kawagoe | Chubu Electric | 0.5 | 2009/2016 | D.E.S. | | |
| | | | Chevron Australia | Yokkaichi | | | | | | | | |
| AU-JP4 | | | | Himeji, Sakai | Kansai Electric | 0.4 | 2009/2017 | D.E.S. | | | | |
| AU-JP5 | | | | Sodegaura, Futtsu, Higashi-Ohgishima | Tokyo Electric | 0.3 | 2009/2017 | D.E.S. | | | | |
| AU-JP6 | | | | Chita | Toho Gas | 0.76 | 2009/2019 | D.E.S. | | | | |
| AU-JP7 | | Withnell Bay | | Sodegaura, Negishi, Ohgishima | Tokyo Gas | 0.5 | 2009/2017 | D.E.S. | | | | |
| AU-JP8 | Australia-Japan | | | Senboku, Himeji | Osaka Gas | 0.5 | 2009/2015 | D.E.S. | | | | |
| | | | " | Sodegaura | Tokyo Gas | 1.37 | 2004/2029 | F.O.B. | | | | |
| AU-JP9 | | | | Negishi, Ohgishima | Toho Gas | | | | | | | |
| | | | | Chita | 70110 005 | | | | | | | |
| AU-JP10 | | | | Himeji Senboku | Osaka Gas | 1.0 | 2004/2033 | F.O.B. | | | | |
| AU-JP11 | | | | Sodeshi | Shizuoka Gas | 0.13 | 2004/2029 | F.O.B. | | | | |
| AU-JP12 | | | | Niigata | Tohoku Electric | 1.0 | 2010/2019 | | | | | |
| AU-JP13 | | | | Oita, Tobata | Kyushu Electric | 0.5 | 2006/2021 | - | | | | |
| AU-JP14 | | | | Chita Kawagoe, Yokkaichi | Chubu Electric | 0.6 | 2009/2029 | D.E.S. | | | | |
| AU-JP15 | | | | Himeji, Sakai | Kansai Electric | 0,5 | 2009/2015 | - | | | | |
| | | | Consession | Futtsu, Sodegaura | Tokyo Electric | 2.0 | 2007/2013 | | | | | |
| AU-JP16 | | Conocophillips, Darwin ENI Santos, Inpex TTSR | | Negishi, Ohgishima Sodegaura, Negishi, | Tokyo Gas | 1.0 | 2006/2022 | F.O.B. | | | | |
| ALL 1D1 7 | | | | Ohgishima | · | | 2011/2025 | F.O.B./D.E.S. | | | | |
| AU-JP17 AU-JP18 | | Pluto | Pluto LNG | Himeji, Sakai Senboku | Kansai Electric Tokyo Gas | 1.75 1.5-1.75 | 2011/2025 | F.O.B./D.E.S. F.O.B./D.E.S. | | | | |
| VO.1L 10 | | | Woodsida | | TORYU Uds | 1.5-1./5 | 2011/2025 | 7.0.0.7 D.E.3. | | | | |
| AU -KR | Australia-Korea | Withnell Bay | Woodside, Japan Australia LNG, Shell Development Australia, BHP Billiton Petroleum, BP International, Chevron Oil Trading | In-Chon, Tong-Yeong | Kogas | 0.5 | 2003/2016 | D.E.S. | | | | |

| Ref. | Trade | Ехроrt | Seller | Import | Buyer | Nominal quantity ACQ 10 ⁶ t/year | Duration | Type of contract | Comments |
|------------------|----------------------------------|--------------------|--|--|--|--|-----------|------------------|----------------|
| BR-JP | Brunei-Japan | Lumut | Brunei LNG | Sodegaura, Negishi, Senboku, Himeji, Futtsu Higashi-Ohgishima | Tokyo Gas, Osaka Gas, Tokyo Electric, | 6.01 | 1993/2013 | D.E.S. | |
| BR-KR | Brunei-Korea | Lumut | Brunei LNG | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 0.7 | 1997/2013 | D.E.S. | |
| ID-JP 1 | Indonesia-Japan | Bontang | Pertamina, Total E & P Indonesia, INPEX, | Senboku, Sakai, Chita, Joetsu Tobata, Ohita Himeji, Kawagoe, Yokkaichi | Kansai Electric, Chubu Electric, Kyushu Electric, Osaka Gas, Toho Gas, Nippon Steel | 3.0 | 2011/2020 | F.O.B./D.E.S. | Extension |
| ID-JP 2 | Indonesia-Japan | Bontang | Pertamina | Chita, Senboku, Himeji, Sakai, Yokkaichi, Kawagoe | Chubu Electric, Kansai Electric, Osaka Gas, Toho Gas | 3.52 | 1983/2003 | F.O.B. | Extension 2011 |
| ID-JP 3 | Indonesia-Japan | Bontang | Pertamina | Senboku, Himeji Sodegaura, Chita, Ohgishima | Osaka Gas, Tokyo Gas, Toho Gas | 2.31 | 1994/2013 | D.E.S. | |
| ID-JP 4 | Indonesia-Japan | Bontang | Pertamina | Hatsukaichi, Kagoshima, Senboku, Himeji | Hiroshima Gas, Nippon Gas, Osaka Gas | 0.39 | 1996/2015 | D.E.S. | |
| ID-JP 5 | Indonesia-Japan | Tanah Merah | Pertamina, Tangguh PSC Contractor Parties | Niigata | Tohoku Electric | 0.12 | 2010/2024 | D.E.S. | |
| ID-KR 2 | Indonesia-Japan | B L - Bontang | Pertamina | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 2 | 1994/2014 | F.O.B. | |
| ID-KR 3 | Indonesia-Japan | Bontang | Pertamina | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 1 | 1998/2017 | F.O.B. | |
| ID-KR 4 | Indonesia-Japan | Tanah Merah | Tangguh PSC Contractor Parties | Gwangyang | Posco | 0.55 | 2005/2024 | D.E.S. | |
| ID-KR 5 | Indonesia-Japan | Tanah Merah | Tangguh PSC Contractor | Gwangyang | K-Power | 0.6 | 2006/2026 | D.E.S. | |
| ID-MX1 | Indonesia-Mexico | Tanah Merah | Parties Tangguh PSC Contractor | Energia Costa Azul | Sempra LNG | 3.7 | 2008/2029 | D.E.S. | |
| | | | Parties Tangguh PSC Contractor | , and the second | · | 2.6 | | F.O.B. | |
| ID-CN ID-TW 2 | Indonesia-China Indonesia-Taiwan | Tanah Merah | Parties Pertamina | Fujian | CNOOC C.P.C. | 1.84 | 2009/2033 | F.O.B. | |
| 1D-1VV 2 | indonesia-raiwan | Bontang | reitaililla | Yung-An Sodegaura, | | 1.04 | 1998/2017 | F.U.B. | |
| MY-JP 1 | Malaysia-Japan | Bintulu | Malaysia LNG | Higashi-Ohgishima, Futtsu, Negishi | Tokyo Gas, Tokyo Electric | 7.4 | 1983/2003 | F.O.B./D.E.S. | Extension 2018 |
| MY-JP 2 | Malaysia-Japan | Bintulu | Malaysia LNG | Niigata | Tohoku Electric | 0.50 | 1996/2016 | D.E.S. | |
| MY-JP 3 | Malaysia-Japan | Bintulu | Malaysia LNG | Sodeshi | Shizuoka Gas | 0.45 | 1996/2016 | D.E.S. | |
| MY-JP 6 MY-JP 8 | Malaysia-Japan Malaysia-Japan | Bintulu Bintulu | Malaysia LNG Malaysia LNG | Fukuoka, Nagasaki Sodegaura, Negishi, Senboku, Himeji, Sakai, Chita, Ohgishima | Saibu Gas Tokyo Gas, Osaka Gas, Kansai Electric, Toho Gas | 2.1 | 1993/2013 | D.E.S. | Extension 2028 |
| MY-JP 9 | Malaysia-Japan | Bintulu | Malaysia LNG | Minato | Gas Bureau, wCity of Sendai | 0.15 | 1997/2016 | D.E.S. | |
| MY-JP 10 | Malaysia-Japan | Bintulu | Malaysia LNG | Chita, Kawagoe, Yokkaichi | Chubu Electric | ~0.54 | 2011/2031 | D.E.S. | |
| MY-JP 11 | Malaysia-Japan | Bintulu | Malaysia LNG | Hatsukaichi | Hiroshima Gas | 0.01 | 2005/2012 | D.E.S. | |
| MY-JP 12 | Malaysia-Japan | Bintulu | Malaysia LNG | Sakaide | Shikoku Electric | 0.36 | 2010/2025 | D.E.S. | |
| MY-JP 13 | Malaysia-Japan | Bintulu | Malaysia LNG TIGA | Niigata | Japan Petroleum Exploration Co Ltd | 0.48 | 2002/2021 | D.E.S. | |
| MY-JP 14 | Malaysia-Japan | Bintulu | Malaysia LNG TIGA | Sodegaura, Negishi, Ohgishima, Chita, Senboku | Tokyo Gas, Toho Gas, Osaka Gas | 0.68 | 2004/2024 | D.E.S. | |
| MY-JP 15 | Malaysia-Japan | Bintulu | Malaysia LNG TIGA | Niigata | Tohoku Electric | 0.5 | 2005/2025 | F.O.B. | |
| MY-JP 16 | Malaysia-Japan | Bintulu | Malaysia LNG TIGA | Chita | Toho Gas | 0.52 | 2007/2027 | D.E.S. | |
| MY-KR 1 | Malaysia-Korea | Bintulu | Malaysia LNG Dua | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 2 | 1995/2015 | F.O.B. | |
| MY-KR 2 | Malaysia-Korea | Bintulu | Malaysia LNG TIGA | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 1.5 | 2003/2010 | D.E.S. | |
| MY-KR 3 | Malaysia-Korea | Bintulu | Malaysia LNG TIGA | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 1.5 | 2008/2028 | D.E.S. | |
| MY-CN | Malaysia-China | Bintulu | Malaysia LNG TIGA | Shanghai LNG | Shanghai LNG Co. | 3.0 | 2009/2029 | D.E.S. | |
| MY-TW | Malaysia-Taiwan | Bintulu | Malaysia LNG Dua | Yung-An | C.P.C. | 2.25 | 1995/2015 | D.E.S. | |
| Ru-JP1 | Russia-Japan | Prigorodnoye | Sakhalin Energy Investment | Futtsu, Sodegaura, Higashi-Ohgishima | Tokyo Electric | 1.5 | 2007/2029 | F.O.B. | |
| Ru-JP2 | Russia-Japan | Prigorodnoye | Sakhalin Energy Investment | Sodegaura, Negishi, Ohgishima | Tokyo Gas | 1.1 | 2007/2031 | F.O.B. | |
| Ru-JP3 | Russia-Japan | Prigorodnoye | Sakhalin Energy Investment | Hatsukaichi | Hiroshima Gas | 0.21 | 2008/2028 | F.O.B. | |
| Ru-JP4 | Russia-Japan | Prigorodnoye | Sakhalin Energy Investment | Senboku, Himeji | Osaka Gas | 0.2 | 2008/2031 | F.O.B. | |

| Ref. | Trade | Еxport | Seller | Import | Buyer | Nominal quantity ACQ 10 ⁶ t/year | Duration | Type of contract | Comments |
|----------|----------------------------|--|-------------------------------|---|--|--|-----------|-------------------------|-----------------------|
| Ru-JP5 | Russia-Japan | Prigorodnoye | Sakhalin Energy Investment | Oita, Tobata | Kyushu Electric | 0.5 | 2009/2031 | D.E.S. | |
| Ru-JP6 | Russia-Japan | Prigorodnoye | Sakhalin Energy Investment | Chita | Toho Gas | 0.5 | 2009/2033 | D.E.S. | |
| Ru-JP7 | Russia-Japan | Prigorodnoye | Sakhalin Energy Investment | Niigata | Tohoku Electric | 0.42 | 2010/2029 | F.O.B. | |
| Ru-JP8 | Russia-Japan | Prigorodnoye | Sakhalin Energy Investment | Fukuoka, Nagasaki | Saibu Gas | 0.008 | 2010/2028 | F.O.B. | |
| Ru-JP9 | Russia-Japan | Prigorodnoye | Sakhalin Energy Investment | Chita, Kawagoe,Yokkaichi | Chubu Electric | 0.5 | 2011/2026 | D.E.S. | |
| Ru-KR | Russia-Korea | Sakhalin | Sakhalin Energy | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 1.5 | 2008/2028 | F.O.B. | |
| Ru-Mex | Russia-Mexico | Sakhalin | Sakhalin Energy | Energia Costa Azul | Shell | 1.6 | 2009/2028 | D.E.S. | |
| Ru-Mex | Russia-Mexico | Sakhalin | Sakhalin Energy | Energia Costa Azul | Gazprom Global LNG | 1 | 2009/2028 | D.E.S. | |
| | | | | MIDDLE E | AST | | | | |
| AE-JP | Abu Dhabi-Japan | Das Island | Adgas | Higashi-Ohgishima, Futtsu | Tokyo Electric | 4.70 | 1994/2019 | D.E.S. | |
| Q-B | Qatar - Belgium | Ras Laffan | RasGas | Zeebrugge | Distrigas | 2.05 | 2007/2027 | F.O.B. | |
| Q-B | Qatar - Belgium | Ras Laffan | RasGas II | Zeebrugge | EDF Trading | 3.4 | 2007/2012 | D.E.S. | |
| Q-Ch | Qatar-China | Ras Laffan | Qatargas | China | CNOOC | 2 | 2009/2028 | D.E.S. | |
| Q-I | Qatar-Italy | Ras Laffan | RasGas | Rovigo | Edison | 4.6 | 2009/2034 | D.E.S. | |
| Q- IN | Qatar -India | Ras Laffan | RasGas | Dahej | Petronet LNG | 7.5 | 2004/2028 | F.O.B. | |
| Q-JP 1 | Qatar -Japan | Ras Laffan | Qatargas | Chita/Kawagoe, Yokkaichi | Chubu Electric | 4 | 1997/2021 | F.O.B. | |
| Q-JP 2 | Qatar -Japan | Ras Laffan | Qatargas | Niigata, Ohgishima, Senboku, Himeji, Sakai, Sodegaura, Futtsu, Chita, Yanai, Mizushima, Higashi-Ohgishima | Tohoku Electric, Tokyo Gas, Osaka Gas, Kansai Electric, Tokyo Electric, Toho Gas, Chugoku Electric | 2 | 1998/2021 | D.E.S. | |
| Q-KR1 | Qatar-Korea | Ras Laffan | RasGas | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 4.92 | 1999/2024 | F.O.B. | |
| Q-KR2 | Qatar-Korea | Ras Laffan | RasGas III | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 2.1 | 2007/2026 | D.E.S. | |
| Q-SP | Qatar - Spain | Ras Laffan | Qatargas | Ba.H.Cart. | Gas Natural Approvisionamentos | 0.66 | 2001/2009 | F.O.B. | Extension to mid-2012 |
| Q-SP | Qatar - Spain | Ras Laffan | Qatargas | Ba.H.Cart. | Gas Natural Aprovisionamentos | 0.66 | 2002/2007 | D.E.S. | Extension to mid-2012 |
| Q-SP | Qatar - Spain | Ras Laffan | Qatargas | Ba.H.Cart.Sag. | Gas Natural sdg | 0.75 | 2005/2025 | D.E.S. | |
| Q-SP | Qatar - Spain | Ras Laffan | RasGas II | | Endesa | 0.74 | 2005/2025 | F.O.B. | |
| Q-UE | Qatar - EU | Ras Laffan | Qatargas | EU | Gas Natural sdg | 0.75 | 2006/2025 | F.O.B. | |
| Q-TW | Qatar-Taiwan | Ras Laffan | RasGas II | Taichung | C.P.C. | 3.08 | 2008/2032 | F.O.B. | |
| Q- UK | Qatar - UK | Ras Laffan | Qatargas II TB | South Hook | ExxonMobil | 7.6 | 2009-2034 | D.E.S. | |
| Q - UK | Qatar - UK | Ras Laffan | Qatargas II TB | South Hook | ExxonMobil | 0.8 | 2099/2033 | D.E.S. | |
| Q- UK | Qatar - UK | Ras Laffan | Qatargas II TB | South Hook | Total | 1.50 | 2009/2034 | D.E.S. | |
| Q-US | Qatar -US | Ras Laffan | Qatargas II TB | Sabine Pass | Total | 1.15 | 2009/2034 | C.I.F. | |
| Q- Mex | Qatar - Mexico | Ras Laffan | Qatargas II TB | Altamira | Total | 0.70 | 2009/2021 | D.E.S. | |
| Q- F | Qatar - France | Ras Laffan | Qatargas II TB | Fos Cavaou | Total | 1.85 | 2009/2034 | D.E.S. | |
| OM-JP 1 | Oman-Japan | Qalhat | Oman LNG | Senboku, Himeji | Osaka Gas Itochu Corp. | 0.66 | 2000/2024 | F.O.B. | |
| OM-JP2 | Oman-Japan | Qalhat | Oman LNG Oman LNG | Yanai, Mizushima USA/Futtsu | Chugoku Electric Mitsubishi Corp | 0,77 | 2006/2020 | F.O.B. F.O.B./D.E.S. | |
| OM-JP3 | Oman-Japan/USA Oman-Japan | Qalhat Qalhat | Qalhat LNG | Senboku, Himeji | Tokyo Electric Osaka Gas | 0.8 | 2006/2020 | F.O.B. | |
| OM-JP4 | Oman-Korea | Qalhat | Qalhat LNG Qalhat LNG | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 4.06 | 2009/2026 | F.O.B. | |
| OM-SP | Oman-Spain | Qalhat | Oman LNG | Spain, Other | BP | 0.77 | 2004/2009 | D.E.S. | |
| OM-SP | Oman-Spain | Qalhat | Qalhat LNG | Spanish terminals | Union Fenosa Gas | 1.65 | 2006/2025 | D.E.S. | |
| Y - US | Yemen - US | Balhaf | Yemen LNG | Sabine Pass | TGPL | 2 | 2009/2029 | D.E.S. | |
| Y - US | Yemen - US | Balhaf | Yemen LNG | Gulf of Mexico | GDF SUEZ | 2.55 | 2009/2029 | D.E.S. | |
| Y-KR | Yemen-Korea | Balhaf | Yemen LNG | Pyeong-Taek, In-Chon, Tong-Yeong | Kogas | 2.55 | 2008/2028 | F.O.B. | |
| | | | | OTHEI | ? | | | | |
| | | Doutfolio in du di | | 1 | | | | | |
| Ptf-KR | Portfolio-Korea | Portfolio including Equatorial Guinea | BG | Pyeong-Taek, In-Chon, Tong-Yeong | Rogas | 1.3 | 2008/2016 | D.E.S. | |
| Ptf-CL | Portfolio-Chile | BG Portfolio | BG | Quintero | Quintero LNG, Chile | 1.7 | 2009/2030 | D.E.S. | |
| Ptf - CN | Portfolio-China | Total Portfolio | Total Gas and Power | China | CNOOC | 1 | 2010/2024 | D.E.S. | |
| Ptf - NE | Portfolio - Netherlands | Iberdrola Portfolio | Iberdrola | Gate | DONG | 0.72 | 2011/2021 | D.E.S. | |

Sea transportation routes

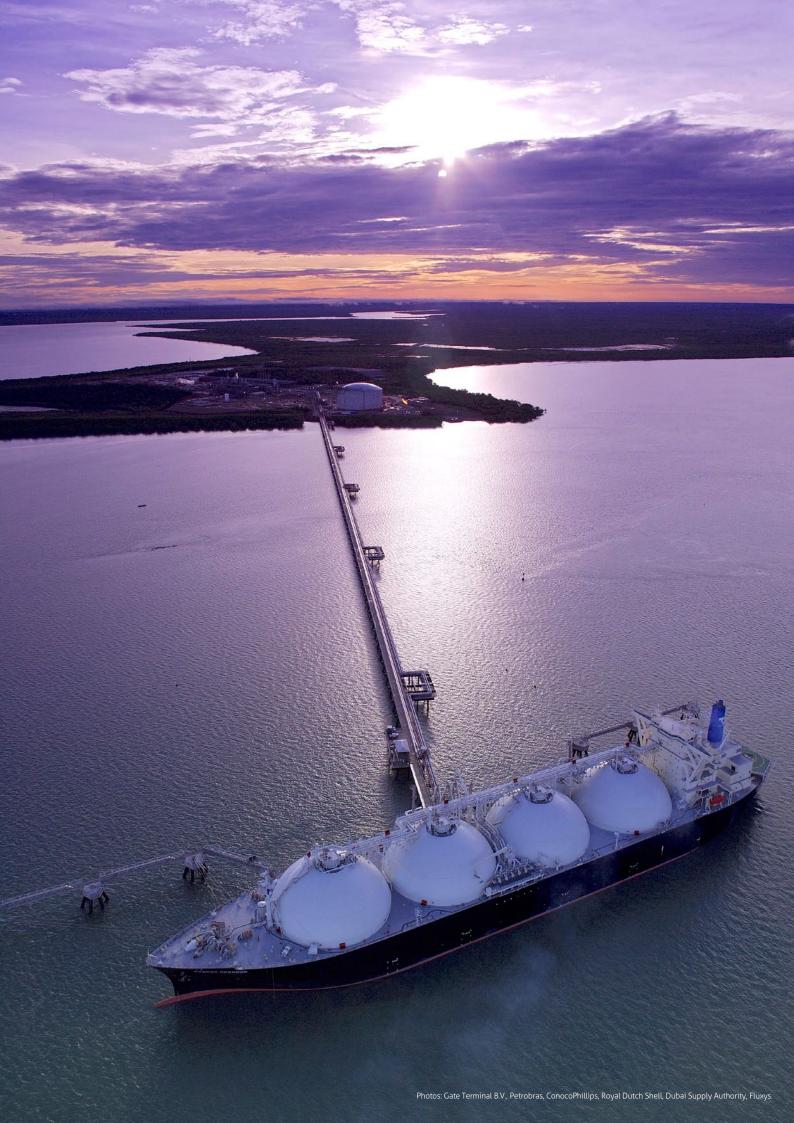
| Ref. | Contracts | Export | Import | miles |
|-----------------|-----------------------|------------------------------|----------------------------|----------------|
| Az-Ca | DZ-SP | Arzew | Cartagena | 113 |
| Az-H | DZ-SP | Arzew | Huelva | 691 |
| Az-IG | DZ-SP | Arzew | Isle of Grain | 1675 |
| Az-P Ba-Bn | DZ-I DZ-SP 1/2/3 | Arzew Bethioua | Panigaglia Barcelona | 684 |
| Ba-Bo | DZ-SP 1/2/3 | Bethioua | Bilbao | 343 1118 |
| Ba-Dj | DZ-IN | Bethioua | Dahej | 4421 |
| Ba-Ca | DZ-SP 1/2/3 | Bethioua | Cartagena | 113 |
| Ba-FC | DZ-F | Bethioua | Fos Cavaou | 520 |
| Ba-F Ba-H | DZ-F 3 DZ-SP 1/2/3 | Bethioua Bethioua | Fos Tonkin Huelva | 530 373 |
| Ba-ME | DZ-TR 1 | Bethioua | Marmara Ereglisi | 1500 |
| Ba-M | DZ-F 3 | Bethioua | Montoir | 1260 |
| Ba-P | DZ-I | Bethioua | Panigaglia | 461 |
| Ba-Rg | DZ-SP | Bethioua | Reganosa | 945 |
| Ba-Rv Ba-Rt | DZ-GR DZ-ND | Bethioua Bethioua | Revithoussa Rotterdam | 1270 1714 |
| Ba-So | DZ-ND DZ-SP | Bethioua | Sagunto | 243 |
| Ba-Si | DZ-P | Bethioua | Sines | 568 |
| Ba-Sa | DZ-JP | Bethioua | Sakai | 9491 |
| Sk-Bn | DZ-SP | Skikda | Barcelona | 351 |
| Sk-Ca Sk-H | DZ-SP DZ-SP | Skikda Skikda | Cartagena Huelva | 388 716 |
| Sk-P | DZ-I 2/3 | Skikda | Panigaglia | 456 |
| Da-Bn | EG-SP | Damietta | Barcelona | 1554 |
| Da-Ca | EG-SP | Damietta | Cartagena | 1677 |
| Da-Dj | EG-IN | Damietta | Dahej | 3142 |
| Da-Dg Da-Dn | EG-CN EG-UK | Damietta Damietta | Dapeng, Shenzhen Dragon | 6556 3041 |
| Da-Ha | EG-IN | Damietta | Hazira | 3153 |
| Da-H | EG-SP | Damietta | Huelva | 1984 |
| Da-Rg | EG-SP | Damietta | Reganosa | 2580 |
| Da-Rt | EG-ND | Damietta | Rotterdam | 3346 |
| Da-Si Ik-Al | EG-P EG-TR | Damietta Idku | Sines Aliaga | 2182 603 |
| Ik-BB | EG-ARG | ldku | Bahia Blanca | 7490 |
| lk-Cr | EG-US | ldku | Cameron | 6481 |
| lk-Ch | EG-JP | ldku | Chita | 7990 |
| Ik-Dg Ik-El | EG-CN EG-US | ldku ldku | Dapeng, Shenzhen | 6665 5495 |
| IK-EI Ik-FC | EG-US EG-F | ldku | Elba Island Fos Cavaou | 1430 |
| lk-F | EG-F | ldku | Fos Tonkin | 1440 |
| Ik-GL | EG-US | ldku | Gulf LNG | 6405 |
| lk-Hj | EG-JP | ldku | Himeji | 7911 |
| Ik-IC Ik-Mj | EG-KR EG-CL | ldku ldku | In-Chon Mejilllones | 7768 10439 |
| Ik-MA | EG-KW | ldku | Mina Al Ahmadi | 3414 |
| lk-M | EG-F | ldku | Montoir | 2771 |
| Ik-Ni | EG-JP | ldku | Negishi | 8104 |
| lk-Og | EG-JP | ldku | Ohgishima | 8111 |
| lk-Ot lk-Fp | EG-JP EG-US | ldku Idku | Oita Port Freeport | 7766 6640 |
| Ik-PT | EG-KR | ldku | Pyeong-Taek | 7764 |
| Ik- RV | EG-GR | ldku | Revithoussa | 540 |
| Ik-Ro | EG-I | ldku | Rovigo | 1299 |
| Ik-So | EG-SP EG-JP | ldku | Sagunto | 1571 |
| Ik-Sa Ik-Tb | EG-JP EG-JP | ldku ldku | Sakai Tobata | 7907 7607 |
| lk-Yg | EG-TW | ldku | Yung-An | 6824 |
| Bk-Dl | EqG-CN | Bioko Island | Dalian | 10602 |
| Bk-Dg | EqG-CN | Bioko Island | Dapeng, Shenzhen | 9516 |
| Bk-Hj Bk-IC | EqG-JP EqG-KR | Bioko Island Bioko Island | Himeji In-Chon | 10781 10651 |
| Bk-Ni | EqG-JP | Bioko Island | Negishi | 10051 |
| Bk-Og | EqG-JP | Bioko Island | Ohgishima | 10897 |
| Bk-Ot | EqG-JP | Bioko Island | Oita | 10616 |
| Bk-PT | EqG-KR | Bioko Island Bioko Island | Pyeong-Taek | 10648 |
| Bk-Qr Bk-Sa | EqG-CL EqG-JP | Bioko Island | Quintero Sakai | 6752 10758 |
| Bk-Tb | EqG-JP | Bioko Island | Tobata | 10591 |
| Bk-TY | EqG-KR | Bioko Island | Tong-Yeong | 10578 |
| Bk-Yg | EqG-TW | Bioko Island | Yung-An | 9657 |
| BI-At BI-Bn | NIG-MEX NIG-SP | Bonny Island Bonny Island | Altamira Barcelona | 6214 3824 |
| BI-BB | NIG-ARG | Bonny Island | Bahia Blanca | 4662 |
| BI-Bo | NIG-SP | Bonny Island | Bilbao | 3914 |
| BI-Ca | NIG-SP | Bonny Island | Cartagena | 3574 |
| BI-CP BI-Dj | NIG-US NIG-IN | Bonny Island Bonny Island | Cove Point Dahej | 5256 7136 |
| BI-DJ | NIG-IN NIG-CN | Bonny Island | Dapeng, Shenzhen | 9328 |
| BI-Dn | NIG-UK | Bonny Island | Dragon | 4206 |
| BI-Es | NIG-ARG | Bonny Island | Escobar | 4995 |
| BI-FC | NIG-F | Bonny Island | Fos Cavaou | 4091 |
| BI-Fj BI-GB | NIG-CN NIG-BR | Bonny Island Bonny Island | Fujian Guanabara Bay | 10054 3422 |
| BI-Ha | NIG-IN | Bonny Island | Hazira | 7053 |
| BI-Hj | NIG-JP | Bonny Island | Himeji | 10790 |
| BI-H | NIG-SP | Bonny Island | Huelva | 3359 |
| BI -IC BI-IG | NIG-KR NIG-UK | Bonny Island Bonny Island | In-Chon Isle of Grain | 10390 4469 |
| BI-JR | NIG-CN | Bonny Island | Jiangsu Rudong | 10230 |
| BI-Mt | NIG-TH | Bonny Island | Map Ta Phut | 8708 |
| BI-ME | NIG-TR | Bonny Island | Marmara Ereglisi | 5059 |
| BI-MA | NIG-KW | Bonny Island | Mina Al Ahmadi | 7588 |
| BI-Mn BI-M | NIG-E | Bonny Island | Mina Jebel Ali Montoir | 7209 |
| BI-M BI-Ot | NIG-F NIG-JP | Bonny Island Bonny Island | Montoir Oita | 3980 10626 |
| BI-Pc | NIG-BR | Bonny Island | Pecem | 2811 |
| BI-PT | NIG-KR | Bonny Island | Pyeong-Taek | 10657 |
| BI-Rg | NIG-SP | Bonny Island | Reganosa | 3746 |
| BI-Ro BI-ND | NIG-GR NIG-ND | Bonny Island Bonny Island | Revithoussa Rotterdam | 4899 4493 |
| BI-ND BI-So | NIG-ND NIG-SP | Bonny Island | Sagunto | 3686 |
| BI-Sa | NIG-JP | Bonny Island | Sakai | 10767 |
| BI-SG | NIG-CN | Bonny Island | Shanghai | 10328 |
| | | | | |

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|-----------------|----------------------|----------------------------------|----------------------------------|---------------|
| BI-Si | NIG-P | Bonny Island | Sines | 3417 |
| BI-Tb | NIG-JP | Bonny Island | Tobata | 10600 |
| BI -TY BI-Yg | NIG- KR NIG-TW | Bonny Island Bonny Island | Tong-Yeong Yung-An | 10354 9440 |
| BI-Tg | NIG-TW NIG-B | Bonny Island | Zeebrugge | 4424 |
| Hm-Ba | NO-SP | Hammerfest | Barcelona | 3155 |
| Hm-Ca Hm-Bo | NO-SP NO-SP | Hammerfest Hammerfest | Cartagena Bilbao | 2885 2045 |
| Hm-CP | NO-US | Hammerfest | Cove Point | 3975 |
| Hm-Dj Hm-Dn | NO-IN NO-UK | Hammerfest Hammerfest | Dahej Dragon | 7665 1599 |
| Hm-FC | NO-F | Hammerfest | Fos Cavaou | 3349 |
| Hm-Hj Hm-H | NO-JP NO-SP | Hammerfest Hammerfest | Himeji Huelva | 12344 2594 |
| Hm-IC | NO-KR | Hammerfest | In-Chon | 12214 |
| Hm-IG Hm-M | NO-UK NO-F | Hammerfest | Isle of Grain Montoir | 1423 |
| Hm-M Hm-Ot | NO-F NO-JP | Hammerfest Hammerfest | Oita | 1889 12180 |
| Hm-PC | NO-DR | Hammerfest | Punta Caucedo | 4613 |
| Hm-PT Hm-Rg | NO-KR NO-SP | Hammerfest Hammerfest | Pyeong-Taek Reganosa | 12211 2048 |
| Hm-Rt | NO-Rt | Hammerfest | Rotterdam | 1401 |
| Hm-Ro Hm-SP | NO-I NO-US | Hammerfest Hammerfest | Rovigo Sabine Pass | 4196 5455 |
| Hm-So | NO-SP | Hammerfest | Sagunto | 3065 |
| Hm-Si Hm-Tb | NO-P NO-JP | Hammerfest Hammerfest | Sines Tobata | 2398 12154 |
| Hm-TY | NO-KR | Hammerfest | Tong-Yeong | 12140 |
| Hm-Yg | NO-TW | Hammerfest | Yung-An | 11238 |
| MB-Bn MB-Ca | LY-SP LY-SP | Marsa-el-Brega Marsa-el-Brega | Barcelona Cartagena | 1068 1175 |
| MB-H | LY-SP | Marsa-el-Brega | Huelva | 1496 |
| DI-Dj DI-Ha | AE-IN AE-IN | Das Island Das Island | Dahej Hazira | 1227 1244 |
| DI-MA | AE-KW | Das Island | Mina Al Ahmadi | 390 |
| K-Hj K-JR | US-JP US-CN | Kenai Kenai | Himeji Jiangsu Rudong | 3727 4190 |
| K-SG | US-CN | Kenai | Shanghai | 4235 |
| K-Sd PF- BB | US-JP | Kenai | Sodegaura | 3300 |
| PF-BB PF-Bn | TT-ARG TT-SP | Point Fortin Point Fortin | Bahia Blanca Barcelona | 4628 3976 |
| PF-Bo | TT-SP | Point Fortin | Bilbao | 3669 |
| PF-Cr PF-Ct | TT-US TT-Ca | Point Fortin Point Fortin | Cameron Canaport | 2201 2150 |
| PF-Ca | TT-SP | Point Fortin | Cartagena | 3701 |
| PF-Dj PF-Dg | TT-IN TT-CN | Point Fortin Point Fortin | Dahej Dapeng, Shenzhen | 8463 12479 |
| PF-Dn | TT-UK | Point Fortin | Dragon | 3734 |
| PF-EI PF-Es | TT-US TT-ARG | Point Fortin Point Fortin | Elba Island Escobar | 1690 4920 |
| PF-E | TT-US | Point Fortin | Everett | 2032 |
| PF-FC | TT-F | Point Fortin | Fos Cavaou | 4147 |
| PF-Fj PF- GB | TT-CN TT-BR | Point Fortin Point Fortin | Fujian Guanabara Bay | 13007 3245 |
| PF-GL | TT-US | Point Fortin | Gulf LNG | 1978 |
| PF-Hj PF-H | TT-JP TT-SP | Point Fortin Point Fortin | Himeji Huelva | 9230 3417 |
| PF-IC | TT-KR | Point Fortin | In-Chon | 9685 |
| PF-IG PF-LC | TT-UK TT-US | Point Fortin Point Fortin | Isle of Grain Lake Charles | 4064 2247 |
| PF-Mj | TT-CL | Point Fortin | Mejilllones | 7596 |
| PF-MA PF-M | TT-KW TT-F | Point Fortin Point Fortin | Mina Al Ahmadi Montoir | 10541 1618 |
| PF-Pc | TT-BR | Point Fortin | Pecem | 1732 |
| PF-Pn PF-Fp | TT-PR | Point Fortin | Penuelas Port Freeport | 560 |
| PF- PC | TT-US TT- DR | Point Fortin Point Fortin | Punta Caucedo | 2272 679 |
| PF-PT | TT- KR | Point Fortin | Pyeong-Taek | 9685 |
| PF-Qr PF-Rg | TT-CL TT-SP | Point Fortin Point Fortin | Quintero Reganosa | 7051 3452 |
| PF- RV | TT-GR | Point Fortin | Revithoussa | 4965 |
| PF-Rt PF-Ro | TT-ND TT-I | Point Fortin Point Fortin | Rotterdam Rovigo | 4102 5180 |
| PF-SP | TT-US | Point Fortin | Sabine Pass | 2247 |
| PF-Sa PF-TY | TT-JP TT-KR | Point Fortin Point Fortin | Sakai Tong-Yeong | 13721 9303 |
| PF-Yg | TT-TW | Point Fortin | Yung-An | 10174 |
| PF-Z Lu-Hj | TT-B BR-JP | Point Fortin Lumut | Zeebrugge Himeji | 3985 2999 |
| Lu-IĆ | BR-KR | Lumut | In-Chon | 2850 |
| Lu-Ni | BR-JP | Lumut | Negishi | 2416 2850 |
| Lu-PT Lu-Sb | BR-KR BR-JP | Lumut Lumut | Pyeong-Taek Senboku | 2405 |
| Lu-Sd | BR-JP | Lumut | Sodegaura | 2430 |
| Lu-TY Bu-Ch | BR-KR MY-JP 8 | Lumut Bintulu | Tong-Yeong Chita | 2014 2395 |
| Bu-Dj | MY-IN | Bintulu | Dahej | 3337 |
| Bu-Dg Bu-Fk | MY-CN MY-JP 6 | Bintulu Bintulu | Dapeng, Shenzhen Fukuoka | 1256 2160 |
| Bu-Fu | MY-JP 1 | Bintulu | Futtsu | 2505 |
| Bu-HO Bu-Hj | MY-JP 1 MY-JP | Bintulu Bintulu | Higashi-Ohgishima Himeji | 2530 2400 |
| Bu-IC | MY-KR | Bintulu | In-Chon | 2124 |
| Bu-JR | MY-CN | Bintulu | Jiangsu Rudong | 2205 |
| Bu-MA Bu-Mn | MY-KW MY-DU | Bintulu Bintulu | Mina Al Ahmadi Mina Jebel Ali | 4479 4101 |
| Bu-Nk | MY-JP 6 | Bintulu | Nagasaki | 2151 |
| Bu-Ni Bu-Nt | MY-JP 1/8 MY-JP 2 | Bintulu Bintulu | Negishi Niigata | 2513 2511 |
| Bu-Og | MY-JP 1/8 | Bintulu | Ohgishima | 2530 |
| Bu-PT Bu-Sa | MY-KR MY-JP 8 | Bintulu Bintulu | Pyeong-Taek Sakai | 2124 2376 |
| Bu-Sb | MY-JP 8 | Bintulu | Senboku | 2376 |
| Bu-St Bu-SG | MY-CN MY-CN | Bintulu Bintulu | Shanghai Mengtougou Shanghai | 1942 |
| טכ-טט | IMIT-CIN | טווונענע | Sualiginal | 1942 |

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|----------------|-------------------------|--------------------------------------|-----------------------|--------------|
| Bu-Sd | MY-JP 1/8 | Bintulu | Sodegaura | 2515 |
| Bu-Sh | MY-JP 3 | Bintulu | Sodeshi | 2378 |
| Bu-Tb | MY-JP | Bintulu | Tobata | 2210 |
| Bu-TY | MY-KR | Bintulu | Tong-Yeong | 1674 |
| Bu-Yg | MY-TW | Bintulu | Yung-An | 1350 |
| Bt-Ch | ID-JP1/3/8/12 | Bontang (Badak) | Chita | 2500 |
| Bt-Fj | ID-CN | Bontang (Badak) | Fujian | 1856 |
| Bt-Hk | ID-JP 9 | Bontang (Badak) | Hatsukaichi | 2412 |
| Bt-Hj | ID-JP 1/3/8 | Bontang (Badak) | Himeji | 2400 |
| Bt-IC | ID-KR 1/2/7 | Bontang (Badak) | In-Chon | 2493 |
| Bt-Kg | ID-JP 9 | Bontang (Badak) | Kagoshima | 2211 |
| Bt-Kw | ID-JP 1/3/11 | Bontang (Badak) | Kawagoe | 2510 |
| Bt-Mt | ID-TH | Bontang (Badak) | Map Ta Phut | 1610 |
| Bt-Ni | ID-JP 1/3/8 | Bontang (Badak) | Negishi | 2573 |
| Bt-Nt | ID-JP | Bontang (Badak) | Niigata | 2857 |
| Bt-Og | ID-JP 8 | Bontang (Badak) | Ohgishima | 2560 |
| Bt-Ot | ID-JP 1 | Bontang (Badak) | Oita | 2413 |
| Bt-PT | ID-KR 1/2/7 | Bontang (Badak) | Pyeong-Taek | 2493 |
| Bt-Sa | ID-JP | Bontang (Badak) | Sakai | 2385 |
| Bt-Sb | ID-JP 1/3/8 | Bontang (Badak) | Senboku 2 | 2385 |
| Bt-Sd | ID-JP 8 | Bontang (Badak) | Sodegaura | 2566 |
| Bt-Tb | ID-JP 1 | Bontang (Badak) | Tobata | 2370 |
| Bt-TY | ID-KR 1/2/7 | Bontang (Badak) | Tong-Yeong | 2043 |
| Bt-Yk | ID-JP 1/3 | Bontang (Badak) | Yokkaichi | 2510 |
| Bt-Yg | ID-TW | Bontang (Badak) Blang Lancang (Arun) | Yung-An | 1455 |
| BL-Fu | ID-JP | | Futtsu | 3504 |
| BL-HO | ID-JP 2 | Blang Lancang (Arun) | Higashi-Ohgishima | 3456 |
| BL-PT | ID-KR 1/2/7 | Blang Lancang (Arun) | Pyeong-Taek | 3149 |
| BL-TY | ID-KR 1/2/7 | Blang Lancang (Arun) | Tong-Yeong | 2699 |
| Tg-Ch | ID-JP | Tangguh | Chita | 2569 |
| Tg-EC | ID-MEX | Tangguh | Energia Costa Azul | 6850 |
| Tg-Fj Tg-Gv | ID-CN ID-KR | Tangguh Tangguh | Fujian | 2227 |
| Tg-IC | ID-KR | Tangguh Tangguh | Gwangyang In-Chon | 2548 2736 |
| Tg-Jo | ID-JP | Tangguh | Joetsu | 2965 |
| Tg-Nt | ID-JP | Tangguh | Niigata | 3036 |
| Tg-Og | ID-JP | Tangguh | Ohghishima | 2339 |
| Tg-Ot | ID-JP | Tangguh | Oita | 2458 |
| Tg-PT | ID-KR | Tangguh | Pyeong-Taek | 2734 |
| Tg-Qr | ID-CL | Tangguh | Quintero | 9135 |
| Tg-Sb | ID-JP | Tangguh | Senboku 2 | 2458 |
| Tg-Yg | ID-TW | Tangguh | Yung-An | 1972 |
| RL-Al | Q-TR | Ras Laffan | Aliaga | 3722 |
| RL-At | Q-MEX | Ras Laffan | Altamira | 9922 |
| RL-BB | Q-ARG | Ras Laffan | Bahia Blanca | 8630 |
| RL-Bn | Q-SP | Ras Laffan | Barcelona | 4710 |
| RL-Bo | Q-SP | Ras Laffan | Bilbao | 5925 |
| RL-Ct | Q-Ca | Ras Laffan | Canaport | 8007 |
| RL-Ca | Q-SP | Ras Laffan | Cartagena | 4817 |
| RL-Ch | Q-JP 1 | Ras Laffan | Chita | 6446 |
| RL-Di | O- IN | Ras Laffan | Dahei | 1290 |
| RL-Dĺ | Q-CN | Ras Laffan | Dalian | 5935 |
| RL-Dg | Q-CN | Ras Laffan | Dapeng, Shenzhen | 5098 |
| RL-Dn | Q-UK | Ras Laffan | Dragon | 6184 |
| RL-El | Q-US | Ras Laffan | Elba Island | 8716 |
| RL-Es | Q-ARG | Ras Laffan | Escobar | 9023 |
| RL-FC | Q-F | Ras Laffan | Fos Cavaou | 4684 |
| RL-GP | Q-US | Ras Laffan | Golden Pass | 9824 |
| RL-GB | Q-BR | Ras Laffan | Guanabara Bay | 8197 |
| RL-Ha | Q-IN | Ras Laffan | Hazira | 1236 |
| RL-Hj | Q-JP 2 | Ras Laffan | Himeji | 6350 |
| RL-H | Q-SP | Ras Laffan | Huelva | 5134 |
| RL-IC | O-KR | Ras Laffan | In-Chon | 6156 |
| RL-IG | Q-UK | Ras Laffan | Isle of Grain | 6428 |
| RL-JR | Q-CN | Ras Laffan | Jiangsu Rudong | 5825 |
| RL-Kw | Q-JP 1 | Ras Laffan | Kawagoe | 6448 |
| RL-Mt | Q-TH | Ras Laffan | Map Ta Phut | 4326 |
| RL-MA | Q-KW | Ras Laffan | Mina Al Ahmadi | 354 |
| RL-Mn | Q-DU | Ras Laffan | Mina Jebel Ali | 231 |
| RL-Mz | Q-JP | Ras Laffan | Mizushima | 6316 |
| RL-M | Q-F | Ras Laffan | Montoir | 6015 |
| RL-Og | Q-JP | Ras Laffan | Oghishima | 6513 |
| RL-P | Q-I | Ras Laffan | Panigaglia | 4774 |
| RL-Pc | Q-BR | Ras Laffan | Pecem | 8621 |
| RL-PT | Q-KR | Ras Laffan | Pyeong-Taek | 6156 |
| RL-Qr | Q-CL | Ras Laffan | Quintero | 10040 |
| RL-Rg | Q-SP | Ras Laffan | Reganosa | 5689 |
| RL-RV | Q-GR | Ras Laffan | Revithoussa | 3696 |
| RL-Rt | Q-ND | Ras Laffan | Rotterdam | 6509 |
| RL-Ro | Q-I | Ras Laffan | Rovigo | 4438 |
| RL-SP | Q-US | Ras Laffan | Sabine Pass | 9796 |
| RL-So | Q-SP | Ras Laffan | Sagunto | 4719 |
| RL-Sa | Q-JP | Ras Laffan | Sakai | 6347 |
| RL-Sb | Q-JP 2 | Ras Laffan | Senboku | 6347 |
| RL-SG | Q-CN | Ras Laffan | Shanghai | 5901 |
| RL-Si | Q-P | Ras Laffan | Sines | 5291 |
| RL-Sd | Q-JP 2 | Ras Laffan | Sodegaura | 6576 |
| RL-Su | Q-UK | Ras Laffan | South Hook | 6137 |
| RL-Ta RL-TY | Q-TW Q-KR | Ras Laffan Ras Laffan | Taichung | 5229 |
| RL-Ya | Q-JP 2 | Ras Laffan | Tong-Yeong Yanai | 5706 6170 |
| RL-Yg | Q-TW | Ras Laffan | Yung-An | 5230 |
| RL-Yk | Q-JP 1 | Ras Laffan | Yokkaichi | 6448 |
| RL-Z | Q-B | Ras Laffan | Zeebrugge | 6277 |
| Qt-Bn | Om-SP | Qalhat | Barcelona | |
| Qt-Ca | Om-SP | Qalhat | Cartagena | 4159 4260 |
| Qt-Ch | Om-JP | Qalhat | Chita | 6032 |
| Qt-Dj | Om-IN | Qalhat | Dahej | 773 |
| Qt-Hj | Om-JP 1 | Qalhat | Himeji | 5838 |
| Qt-IC | Om-KR | Qalhat | In-Chon | 5750 |
| Qt-Mz | Om-JP2 | Qalhat | Mizushima | 5873 |
| Qt-PT | Om-KR | Qalhat | Pyeong-Taek | 5750 |
| Qt-Sa | Om-JP | Qalhat | Sakai | 5812 |
| Qt-Sb | Om-JP 1 | Qalhat | Senboku | 5812 |
| Qt-TY | Om-KR | Qalhat | Tong-Yeong | 5300 |
| Qt-Ya | Om-JP | Qalhat | Yanai | 5700 |
| Qt-Yg | Om-TW | Qalhat | Yung-An | 4719 |
| SI-Ch | Ru-JP | Sakhalin II | Chita | 1085 |
| Sl-Dg | Ru-CN | Sakhalin II | Dapeng, Shenzhen | 2244 |
| | Ru-CN | Sakhalin II Sakhalin II | Fujian Futtsu | 2063 1065 |
| SI-Fj SI-Fu | Ru-JP | | | |
| | Ru-JP Ru-JP Ru-JP | Sakhalin II Sakhalin II | Hatsukaichi Himeji | 1105 1196 |

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|-----------------|----------------|-----------------------------------|-------------------------------|--------------|
| SI-JR | Ru-CN | Sakhalin II | Jiansu Rudong | 1410 |
| SI-Kw | Ru-JP | Sakhalin II | Kawagoe | 1029 |
| SI-Mt | Ru-TH | Sakhalin II | Map Ta Phut | 3356 |
| SI-Nk | Ru-JP | Sakhalin II | Nagasaki | 1120 |
| SI-Ni | Ru-JP Ru-1P | Sakhalin II | Negishi | 1010 |
| SI-Ni SI-Og | Ru-JP Ru-JP | Sakhalin II Sakhalin II | Niigata Ohgishima | 581 964 |
| SI-Og | Ru-JP Ru-JP | Sakhalin II | Origistilitia | 1061 |
| SI-PT | Ru-KR | Sakhalin II | Pyeong-Taek | 1763 |
| SI-Sa | Ru-JP | Sakhalin II | Sakai | 1176 |
| SI-Sb | Ru-JP | Sakhalin II | Senboku | 1233 |
| SI-SG | Ru-CN | Sakhalin II | Shanghai | 1444 |
| SI-Sd | Ru-JP | Sakhalin II | Sodegaura | 1020 |
| SI-Sh SI-Tb | Ru-JP Ru-JP | Sakhalin II Sakhalin II | Sodeshi Tobata | 934 |
| SI-TD SI-TY | Ru-KR | Sakhalin II | Tong-Yeong | 981 1363 |
| Sl-Yg | Ru-TW | Sakhalin II | Yung-An | 1967 |
| Bf-At | Ym-MEX | Balhaf | Altamira | 8313 |
| Bf-Ch | Ym-JP | Balhaf | Chita | 6433 |
| Bf-Dg | Ym-CN | Balhaf | Dapeng, Shenzhen | 5108 |
| Bf-E | Ym-US | Balhaf | Everett | 6373 |
| Bf-FC | Ym-F | Balhaf | Fos Cavaou | 2993 |
| Bf-Fj Bf-Ha | Ym-CN Ym-IN | Bahalf Balhaf | Fujian Hazira | 5634 |
| Bf-IC | Ym-IN Ym-KR | Balhaf | In-Chon | 1703 6243 |
| Bf-IG | Ym-UK | Balhaf | Isle of Grain | 4735 |
| Bf-JR | Ym-CN | Balhaf | Jiangsu Rudong | 5802 |
| Bf-Kw | Ym-JP 1 | Balhaf | Kawagoe | 6435 |
| Bf-M | Ym-F | Balhaf | Montoir | 4505 |
| Bf-Fp | Ym-US | Balhaf | Port Freeport | 8146 |
| Bf-PT | Ym-KR | Balhaf | Pyeong-Taek | 6025 |
| Bf-SP Bf-TY | Ym-US Ym-KR | Balhaf Balhaf | Sabine Pass | 8118 |
| Bf-TY Bf-Yg | Ym-KK Ym-TW | Balhaf | Tong-Yeong Yung-An | 5625 5268 |
| Bf-7 | Ym-B | Balhaf | Zeebrugge | 4690 |
| WB-Ch | AU-JP | Withnell Bay | Chita | 3612 |
| WB-Dg | AU-CN | Withnell Bay | Dapeng, Shenzhen | 2770 |
| WB-Dj | AU-IN | Withnell Bay | Dahej | 3857 |
| WB-Fj | AU-CN | Withnell Bay | Fujian | 3053 |
| WB-Hj | AU-JP | Withnell Bay | Himeji | 3596 |
| WB-IC | AU-KR AU-JP | Withnell Bay Withnell Bay | In-Chon Kagoshima | 3613 |
| WB-Kg WB-Kw | AU-JP AU-JP | Withnell Bay | Kagosiiiiia Kawagoe | 3334 3622 |
| WB-MA | AU-KW | Withnell Bay | Mina Al Ahmadi | 5041 |
| WB-Mz | AU-JP | Withnell Bay | Mizushima | 3638 |
| WB-Ni | AU-JP | Withnell Bay | Negishi | 3664 |
| WB-Nt | AU-JP | Withnell Bay | Niigata | 3995 |
| WB-Og | AU-JP | Withnell Bay | Ohgishima | 3683 |
| WB-Ot | AU-JP | Withnell Bay | Oita | 3460 |
| WB- PT WB-Sa | AU-KR AU-JP | Withnell Bay Withnell Bay | Pyeong-Taek Sakai | 3613 3570 |
| WB-Sb | AU-JP | Withnell Bay | Senboku | 3570 |
| WB-Sd | AU-JP | Withnell Bay | Sodegaura | 3692 |
| WB- Tb | AU-JP | Withnell Bay | Tobata | 3585 |
| WB-TY | AU-KR | Withnell Bay | Tong-Yeong | 3526 |
| WB-Ya | AU-JP | Withnell Bay | Yanai | 3491 |
| WB-Yk | AU-JP | Withnell Bay | Yokkaichi | 3668 |
| Dw-Mn Dw-Ni | AU-DU AU-JP | Darwin Darwin | Mina Jebel Ali | 5231 3017 |
| Dw-N1 Dw-og | AU-JP AU-JP | Darwin | Negishi Ohgishima | 3017 |
| Dw-Sa | AU-JP | Darwin | Sakai | 3088 |
| Dw-Yg | AU-TW | Darwin | Yung-An | 2430 |
| Pm-At | Pr-MEX | Pampa Melchorita | Altamira | 10298 |
| Pm-Bn | Pr-SP | Pampa Melchorita | Barcelona | 9566 |
| Pm-Bo | Pr-SP | Pampa Melchorita | Bilbao | 9639 |
| Pm-Cr | Pr-US | Pampa Melchorita | Cameron | 10215 |
| Pm-Ca Pm-Dg | Pr-SP Pr-CN | Pampa Melchorita Pampa Melchorita | Cartagena Dapeng, Shenzhen | 9292 9603 |
| Pm-H | Pr-SP | Pampa Melchorita | Huelva | 9053 |
| Pm-IC | Pr-KR | Pampa Melchorita | In-Chon | 9274 |
| Pm-Kw | Pr-JP | Pampa Melchorita | Kawagoe | 8576 |
| Pm-Mt | Pr-TH | Pampa Melchorita | Map Ta Phut | 11027 |
| Pm-Fp | Pr-US | Pampa Melchorita | Port Freeport | 10236 |
| Pm-PT | Pr-KR | Pampa Melchorita | Pyeong-Taek | 9266 |
| Pm-Rg | Pr-SP | Pampa Melchorita Pampa Melchorita | Reganosa | 9405 |
| Pm-So Pm-SG | Pr-SP Pr-CN | Pampa Melchorita Pampa Melchorita | Sagunto Shanghai | 9451 9325 |
| Pm-Yg | Pr-TW | Pampa Melchorita | Yung-An | 9740 |
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| Inter-Trade | | | | | |
|-------------|------------------|-------------------|-------|--|--|
| | Cartagena | Panigaglia | 637 | | |
| | Cartagena | Escobar | 5526 | | |
| | Huelva | Panigaglia | 1914 | | |
| | Huelva | Escobar | 5325 | | |
| | Reganosa | Panigaglia | 1485 | | |
| | Reganosa | Escobar | 5598 | | |
| | Reganosa | Mina Al Ahmadi | 5735 | | |
| | Reganosa | Yung-An | 9164 | | |
| | Zeebrugge | Bilbao | 806 | | |
| | Zeebrugge | Huelva | 1222 | | |
| | Zeebrugge | Himeji | 11081 | | |
| | Zeebrugge | Higashi-Ohgishima | 11262 | | |
| | Zeebrugge | Pyeong-Taek | 10948 | | |
| | Zeebrugge | Rotterdam | 101 | | |
| | Zeebrugge | Sagunto | 1705 | | |
| | Cameron | Bilbao | 4723 | | |
| | Cameron | Himeji | 9506 | | |
| | Port Freeport | Dahej | 9710 | | |
| | Port Freeport | Guanabara Bay | 5306 | | |
| | Port Freeport | Gwangyang | 6102 | | |
| | Port Freeport | In-Chon | 4300 | | |
| | Sabine Pass | Cartagena | 10118 | | |
| | Sabine Pass | Dahej | 9649 | | |
| | Sabine Pass | Fujian | 10344 | | |
| | Sabine Pass | Guanabara Bay | 10252 | | |
| | Sabine Pass | Gwangyang | 4453 | | |
| | Sabine Pass | Isle of Grain | 4165 | | |
| | Sabine Pass | In-Chon | 15432 | | |
| | Sabine Pass | Pecem | 3336 | | |
| | Sabine Pass | Sagunto | 14200 | | |
| | Sabine Pass | Quintero | 4113 | | |
| En | ergia Costa Azul | Quintero | 4679 | | |
| | Juanabara Bay | Mina Al Ahmadi | 8375 | | |
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