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LNG MAP

GLE Gas LNG Europe is one of the three columns of GIE Gas Infrastructure Europe - the European association of the Natural Gas Industry, the other columns being: GTE Gas Transmission Europe and GSE Gas Storage Europe.

All data provided on this map is for information purposes and shall be treated as indicative only. Under no circumstances shall it be regarded as data intended for commercial use. All data relating to projects indicated on this Map is based on publicly available information. More current information on LNG projects can be found at www.gie.eu/GLE-Investment-Database

GLE IS REPRESENTING 14 MEMBERS IN 9 COUNTRIES AND 1 OBSERVER

MEMBERS

- BELGIUM: FLUXYS LNG
- GREECE: DESFA
- NETHERLANDS: Gate terminal
- PORTUGAL: REN Atlântico
- UNITED KINGDOM: South Hook LNG Terminal Company Ltd; nationalgrid
- FRANCE: Dunkerque LNG; elengy; FOSMAX LNG
- ITALY: GNL ITALIA; Adriatic LNG
- SPAIN: enagas; BBG
- POLAND: GAZ-SYSTEM

OBSERVERS

- IRELAND: Shannon LNG

MAP LEGEND

the indication of interconnection points is consistent with all other GIE grid maps

GIE Member Countries — Other Countries

Import
- Belgium, Zeebrugge (Start-up: 1987) — LNG Import Terminal *Operational*
- Poland, Świnoujście (Start-up: 2014) — LNG Import Terminal *Under construction and/or included within Mandatory Planning*
- Italy, Zaule (Trieste) (Start-up: 2014+) — LNG Import Terminal *Under study or Proposed*

Export
- Algeria, Arzew (Start-up: 1964) — LNG Export Terminal *Operational*
- Russia, Shtokman, Teriberka - Barents Sea — LNG Export Terminal *Project*

Other
- UK, Teesside (Start-up: 2007) — Dockside regasification facility

Small Scale LNG
- Norway, Risavika (Start-up: 2011) — LNG Liquefaction plant *Operational*
- Norway, - (Start-up: -) — LNG Liquefaction plant *Under construction or planned*
- Norway, Øra LNG (Start-up: 2011) — Import Terminal *Operational*
- Sweden, Lysekil (Start-up: 2013) — Import Terminal *Under construction or planned*

- Cross-border interconnection point
- Cross-border interconnection point - *Under construction or Planned*
- Cross-border interconnection point with non-EU third country (import)
- Intra-country or intra balancing zone point
- Non-EU Cross-border interconnection point

Gas storage facilities
- LNG Peak Shaving
- Acquifer
- Salt cavity - cavern
- Depleted field / Gas field on shore / offshore
- Other types
- project
- Unknown
- Gas storage facilities in non-GIE Member countries

Transport by pipeline
- under 24"
- 24" to 36"
- 36" and over
- project

Transport by tanker
- LNG route
- LNG route project

Gas Reserve areas
- drilling platform

LNG DATA LEGEND

Belgium, Zeebrugge / Start-up: 1987 / FLUXYS — Location, name of LNG regasification plant; TO (Terminal Operator); Terminal start-up date

GENERAL INFORMATION — (N) = Normal = at 0° / pressure 1 bar

MAX. HOURLY CAPACITY - m^3 (N)/h	Maximum Hourly Capacity (cubic meter at normal conditions)	m^3 (N) / hour
NOM. ANNUAL CAPACITY - bm^3 (N)/year	Nominal Annual Capacity (billion cubic meter at normal conditions)	billion m^3 (N) / year

NATURAL GAS SCHEDULING INFORMATION

NOMINATION -	Nomination	Yes or No
MATCHING -	Matching	Yes or No
SCHEDULE -	Schedule H/H: hourly/hourly or D/D: daily/daily or H/D	
ALLOCATION -	Allocation	OBA - BS - Pro Rata - Mix
FLOW CONTROL -	Flow control	Yes or No
MEASUREMENT -	Measurement	Yes or No

TECHNICAL INFORMATION

LNG STORAGE CAPACITY	current / projected	m^3 LNG
NUMBER OF TANKS		-
MAX. LNG SHIP CLASS SIZE REC.	Max. LNG ship class size receivable	m^3 LNG
URL AUTHORISED SHIPS	TO web address: Authorised ships info	-
NUMBER OF JETTIES		-
MIN. SEA DEPTH ALONG SIDE	Minimum sea depth along side	m
MAX. SEND OUT PRESSURE	Maximum send out pressure	bar
TPA REGIME	Regulated / Exempted / Hybrid	

OBA (Operating Balancing Account)
All pairs of counterparties are allocated their matched quantity. The difference between the measured quantities and the sum of the allocated quantities is managed in an imbalance account between the operators.

BS (Balancing Shipper)
(N-1) pairs of counterparties are allocated their matched quantity. The Nth pair is allocated the difference between the measured quantities and the sum of the (N-1) allocated quantities.

Pro Rata
Each pair of counterparties is allocated a ratio of the measured quantities that equals the weight of its matched quantity in the overall schedule.

Mix
Combination of the solution above, depending on situation.

polaris graphik..technik — scale = 1 : 8.000.000 — Version: May 2012

LNG IMPORT TERMINALS — DATA

Belgium, Zeebrugge — FLUXYS LNG
Start-up: 1987

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 1.700.000 m^3 (N)/h	current: 9 bm^3 (N)/year
Open Season ongoing	Open Season ongoing

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	H/H	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 380.000 m^3 LNG; by 2017: up to 560.000 m^3 LNG (not decided yet)
NUMBER OF TANKS	current: 4; by 2017 (not decided yet): 5
MAX. SHIP CLASS SIZE REC.	266.000 m^3 LNG
URL AUTHORISED SHIPS	www.fluxys.com
NUMBER OF JETTIES	current: 1; by 2015 (under construction): 2
MIN. SEA DEPTH ALONG SIDE	13 m
MAX. SEND OUT PRESSURE	70 bar
TPA REGIME	Regulated

UK, Isle of Grain (Grain LNG) — nationalgrid
Start-up: 2005

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 2.650.000 m^3 (N)/h	current: 19,5 bm^3 (N)/year
Phase 4 by 2016+: -	Phase 4 by 2016+: + up to 8

NOMINATION	Yes	ALLOCATION	Pro Rata
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 1.000.000 m^3 LNG; Phase 4 by 2016+: +190.000 m^3 LNG
NUMBER OF TANKS	current: 8; Phase 4 by 2016+: +1
MAX. SHIP CLASS SIZE REC.	265.000 m^3 LNG
URL AUTH. SHIPS	www.nationalgrid.com/uk/GrainLNG/
NUMBER OF JETTIES	2
MIN. SEA DEPTH ALONG SIDE	12,5 m
MAX. SEND OUT PRESSURE	70 bar
TPA REGIME	Exempted

UK, Milford Haven — South Hook LNG (ExxonMobil, Total, Qatar Petroleum, South Hook)
Start-up: 2009

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
2.440.000 m^3 (N)/h	21 bm^3 (N)/year

NOMINATION	-	ALLOCATION	-
MATCHING	-	FLOW CONTROL	-
SCHEDULE	-	MEASUREMENT	-

LNG STORAGE CAPACITY	775.000 m^3 LNG
NUMBER OF TANKS	5
MAX. LNG SHIP CLASS SIZE REC.	265.000 m^3 LNG
URL AUTHORISED SHIPS	www.southhooklng.co.uk
NUMBER OF JETTIES	1 (2 berths)
MIN. SEA DEPTH ALONG SIDE	-
MAX. SEND OUT PRESSURE	-
TPA REGIME	Exempted

UK, Milford Haven — Dragon LNG (BG Group, Petronas, 4Gas, Dragon LNG)
Start-up: 2009

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
1.140.000 m^3 (N)/h	6 bm^3 (N)/year

NOMINATION	-	ALLOCATION	-
MATCHING	-	FLOW CONTROL	-
SCHEDULE	-	MEASUREMENT	-

LNG STORAGE CAPACITY	320.000 m^3 LNG
NUMBER OF TANKS	2
MAX. LNG SHIP CLASS SIZE REC.	217.000 m^3 LNG
URL AUTHORISED SHIPS	www.dragonlng.co.uk
NUMBER OF JETTIES	-
MIN. SEA DEPTH ALONG SIDE	-
MAX. SEND OUT PRESSURE	-
TPA REGIME	Exempted

UK, Teesside — excelerate energy
Start-up: 2007
dockside regasification facility

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
670.000 m^3 (N)/h	4,6 bm^3 (N)/year

LNG STORAGE CAPACITY	138.000 m^3 LNG
NUMBER OF TANKS	1
TPA REGIME	Exempted

France, Montoir de Bretagne — elengy
Start-up: 1980

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 1.600.000 m^3 (N)/h	current: 10,0 bm^3 (N)/year
Open Season under way	future: up to 16,5 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	360.000 m^3 LNG
NUMBER OF TANKS	3
MAX. LNG SHIP CLASS SIZE REC.	265.000 m^3 LNG
URL AUTHORISED SHIPS	www.elengy.com
NUMBER OF JETTIES	2
MIN. SEA DEPTH ALONG SIDE	13 m
MAX. SEND OUT PRESSURE	80 bar
TPA REGIME	Regulated

France, Fos Tonkin — elengy
Start-up: 1972

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 1.150.000 m^3 (N)/h	current: 5,5 bm^3 (N)/year
	future: up to 7 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	150.000 m^3 LNG
NUMBER OF TANKS	3
MAX. LNG SHIP CLASS SIZE REC.	75.000 m^3 LNG
URL AUTHORISED SHIPS	www.elengy.com
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	12 m
MAX. SEND OUT PRESSURE	67,7 bar
TPA REGIME	Regulated

France, Fos Cavaou — FOSMAX LNG
Start-up: 2010

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 1.160.000 m^3 (N)/h	current: 8,25 bm^3 (N)/year
	future: 16,5 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	330.000 m^3 LNG
NUMBER OF TANKS	3
MAX. LNG SHIP CLASS SIZE REC.	270.000 m^3 LNG
URL AUTHORISED SHIPS	www.fosmax-lng.com
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	15 m
MAX. SEND OUT PRESSURE	90 bar
TPA REGIME	Regulated

Italy, Panigaglia — GNL ITALIA
Start-up: 1971

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 427.000 m^3 (N)/h	current: 3,4 bm^3 (N)/year
by 2020: 915.000 m^3 (N)/h	by 2020: 8 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	Pro Rata
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 100.000 m^3 LNG; by 2020: 240.000 m^3 LNG
NUMBER OF TANKS	current: 2; by 2020: 2
MAX. LNG SHIP CLASS SIZE REC.	70.000 m^3 LNG
URL AUTHORISED SHIPS	www.gnlitalia.it
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	10 m
MAX. SEND OUT PRESSURE	70 bar
TPA REGIME	Regulated

Italy, Porto Levante — Adriatic LNG
Start-up: 2009

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
1.100.000 m^3 (N)/h	7.56 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	Pro Rata
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	250.000 m^3 LNG
NUMBER OF TANKS	2
MAX. LNG SHIP CLASS SIZE REC.	152.000 m^3 LNG
URL AUTHORISED SHIPS	www.adriaticlng.com
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	27 m
MAX. SEND OUT PRESSURE	70 bar
TPA REGIME	Hybrid

Greece, Revithoussa — DESFA
Start-up: 2000

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 735.000 m^3 (N)/h	current: 5,3 bm^3 (N)/year
by 2016: 970.000 m^3 (N)/h	by 2016: 7,3 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	Pro Rata
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	Yes	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 130.000 m^3 LNG; by 2016: 225.000 m^3 LNG
NUMBER OF TANKS	current: 2; by 2016: 3
MAX. LNG SHIP CLASS SIZE REC.	135.000 m^3 LNG (*)
URL AUTHORISED SHIPS	www.desfa.gr
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	12,7 m
MAX. SEND OUT PRESSURE	64 bar
TPA REGIME	Regulated

(*) bigger ships may be accomodated, under specific conditions

Turkey, Aliaga — EgeGaz
Start-up: 2006

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
680.000 m^3 (N)/h	6,0 bm^3 (N)/year

NOMINATION	-	ALLOCATION	-
MATCHING	-	FLOW CONTROL	-
SCHEDULE	-	MEASUREMENT	-

LNG STORAGE CAPACITY	280.000 m^3 LNG
NUMBER OF TANKS	2
MAX. SHIP CLASS SIZE REC.	265.000 m^3 LNG
URL AUTHORISED SHIPS	-
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	-
MAX. SEND OUT PRESSURE	-
TPA REGIME	-

Turkey, Marmara Ereglisi — BOTAŞ
Start-up: 1994

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
685.000 m^3 (N)/h	6,2 bm^3 (N)/year

NOMINATION	-	ALLOCATION	-
MATCHING	-	FLOW CONTROL	-
SCHEDULE	-	MEASUREMENT	-

LNG STORAGE CAPACITY	255.000 m^3 LNG
NUMBER OF TANKS	3
MAX. SHIP CLASS SIZE REC.	-
URL AUTHORISED SHIPS	www.botas.gov.tr
NUMBER OF JETTIES	-
MIN. SEA DEPTH ALONG SIDE	-
MAX. SEND OUT PRESSURE	-
TPA REGIME	-

Portugal, Sines — REN Atlântico
Start-up: 2004

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 1.125.000 m^3 (N)/h	current: 6,5 bm^3 (N)/year
by 2012: 1.350.000 m^3 (N)/h	by 2012: 7,9 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	Pro Rata
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 240.000 m^3 LNG; by 2012: 390.000 m^3 LNG
NUMBER OF TANKS	current: 2; by 2012: 3
MAX. SHIP CLASS SIZE REC.	215.000 m^3 LNG
URL AUTHORISED SHIPS	www.ren.pt
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	13,5 m
MAX. SEND OUT PRESSURE	84 bar
TPA REGIME	Regulated

Spain, Barcelona — enagas
Start-up: 1968

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
1.950.000 m^3 (N)/h	17,1 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 840.000 m^3 LNG; future: 680.000 m^3 LNG
NUMBER OF TANKS	current: 8; future: 5
MAX. SHIP CLASS SIZE REC.	current: 140.000 m^3 LNG; future: 250.000 m^3 LNG
URL AUTHORISED SHIPS	www.enagas.es
NUMBER OF JETTIES (jetty 1: 80.000 / jetty 2: 140.000)	2
MIN. SEA DEPTH ALONG SIDE	15 m
MAX. SEND OUT PRESSURE	72 bar
TPA REGIME	Regulated

Spain, Huelva — enagas
Start-up: 1988

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 1.350.000 m^3 (N)/h	current: 11,8 bm^3 (N)/year
future: 1.650.000 m^3 (N)/h	future: 13,1 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 610.000 m^3 LNG; future: 760.000 m^3 LNG
NUMBER OF TANKS	current: 5; future: 6
MAX. SHIP CLASS SIZE REC.	current: 137.500 m^3 LNG; future: 250.000 m^3 LNG
URL AUTHORISED SHIPS	www.enagas.es
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	12,5 m
MAX. SEND OUT PRESSURE	72 bar
TPA REGIME	Regulated

Spain, Cartagena — enagas
Start-up: 1989

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 1.350.000 m^3 (N)/h	current: 11,8 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	587.000 m^3 LNG
NUMBER OF TANKS	5
MAX. SHIP CLASS SIZE REC.	263.000 m^3 LNG
URL AUTHORISED SHIPS	www.enagas.es
NUMBER OF JETTIES	2
MIN. SEA DEPTH ALONG SIDE	15 m
MAX. SEND OUT PRESSURE	72 bar
TPA REGIME	Regulated

Spain, Bilbao — BBG
Start-up: 2003

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 800.000 m^3 (N)/h	current: 7 bm^3 (N)/year
by 2014: 1.200.000 m^3 (N)/h	by 2014: 10,5 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 300.000 m^3 LNG; by 2014: 450.000 m^3 LNG
NUMBER OF TANKS	current: 2; by 2014: 3
MAX. SHIP CLASS SIZE REC.	270.000 m^3 LNG
URL AUTHORISED SHIPS	www.bahiasdebizkaia.com
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	20 m
MAX. SEND OUT PRESSURE	72 bar
TPA REGIME	Regulated

Spain, Sagunto — saggas
Start-up: 2006

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 1.000.000 m^3 (N)/h	current: 8,8 bm^3 (N)/year
future: 1.400.000 m^3 (N)/h	future: 12,3 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 600.000 m^3 LNG; future: 750.000 m^3 LNG
NUMBER OF TANKS	current: 4; future: 5
MAX. SHIP CLASS SIZE REC.	265.000 m^3 LNG
URL AUTHORISED SHIPS	www.saggas.es
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	- m
MAX. SEND OUT PRESSURE	72 bar
TPA REGIME	Regulated

Spain, El Ferrol (Mugardos) — reganosa
Start-up: 2007

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 412.800 m^3 (N)/h	current: 3,6 bm^3 (N)/year
future: 825.600 m^3 (N)/h	future: 7,3 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	300.000 m^3 LNG
NUMBER OF TANKS	2
MAX. SHIP CLASS SIZE REC.	140.000 m^3 LNG
URL AUTHORISED SHIPS	www.reganosa.com
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	15 m
MAX. SEND OUT PRESSURE	72 bar
TPA REGIME	Regulated

The Netherlands, Rotterdam — Gate terminal (Gasunie, Vopak)
Start-up: 2011

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
current: 1.650.000 m^3 (N)/h	current: 12 bm^3 (N)/year
by 2014/15: 2.200.000 m^3 (N)/h	by 2014/15: 16 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	H/H	MEASUREMENT	Yes

LNG STORAGE CAPACITY	current: 540.000 m^3 LNG; by 2014/15: 720.000 m^3 LNG
NUMBER OF TANKS	current: 3; by 2014/15: 4
MAX. SHIP CLASS SIZE REC.	267.000 m^3 LNG
URL AUTHORISED SHIPS	www.gate.nl
NUMBER OF JETTIES	2
MIN. SEA DEPTH ALONG SIDE	14,5 m
MAX. SEND OUT PRESSURE	80 bar
TPA REGIME	Exempted

Spain, Gijón (Musel) — enagas
Start-up: 2013

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
by 2013: 800.000 m^3 (N)/h	by 2013: 7 bm^3 (N)/year
future: 1.200.000 m^3 (N)/h	future: 10,5 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	by 2013: 300.000 m^3 LNG; future: 600.000 m^3 LNG
NUMBER OF TANKS	by 2013: 2; future: 4
MAX. SHIP CLASS SIZE REC.	250.000 m^3 LNG
URL AUTHORISED SHIPS	www.enagas.es
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	- m
MAX. SEND OUT PRESSURE	72 bar
TPA REGIME	Regulated

Spain, Gran Canaria, Arinaga — Gascan
Start-up: 2016

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
by 2016: 150.000 m^3 (N)/h	by 2016: 1,3 bm^3 (N)/year
future: 225.000 m^3 (N)/h	future: 2 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	by 2016: 150.000 m^3 LNG; future: 300.000 m^3 LNG
NUMBER OF TANKS	by 2016: 1; future: 2
MAX. SHIP CLASS SIZE REC.	145.000 m^3 LNG
URL AUTHORISED SHIPS	www.gascan.es
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	- m
MAX. SEND OUT PRESSURE	72 bar
TPA REGIME	Regulated

Spain, Tenerife, Arico-Granadilla — Gascan
Start-up: 2015

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
by 2015: 150.000 m^3 (N)/h	by 2015: 1,3 bm^3 (N)/year
future: 225.000 m^3 (N)/h	future: 2 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	D/D	MEASUREMENT	Yes

LNG STORAGE CAPACITY	by 2015: 150.000 m^3 LNG; future: 300.000 m^3 LNG
NUMBER OF TANKS	by 2015: 1; future: 2
MAX. SHIP CLASS SIZE REC.	145.000 m^3 LNG
URL AUTHORISED SHIPS	www.gascan.es
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	- m
MAX. SEND OUT PRESSURE	72 bar
TPA REGIME	Regulated

Italy, Toscana Offshore — OLT Offshore LNG Toscana (Golar LNG, iren, e.on)
Start-up: 2013

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
-	3,75 bm^3 (N)/year

NOMINATION	-	ALLOCATION	-
MATCHING	-	FLOW CONTROL	-
SCHEDULE	-	MEASUREMENT	-

LNG STORAGE CAPACITY	137.500 m^3 LNG
NUMBER OF TANKS	-
MAX. LNG SHIP CLASS SIZE REC.	138.000 m^3 LNG
URL AUTHORISED SHIPS	www.oltoffshore.it
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	>25 m
MAX. SEND OUT PRESSURE	- bar
TPA REGIME	Exempted

Poland, Świnoujście — GAZ-SYSTEM
Start-up: 2014

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
by 2014: 656.000 m^3 (N)/h	by 2014: 5 bm^3 (N)/year
future: tba	future: 7,5 bm^3 (N)/year

NOMINATION	-	ALLOCATION	-
MATCHING	-	FLOW CONTROL	-
SCHEDULE	-	MEASUREMENT	-

LNG STORAGE CAPACITY	by 2014: 320.000 m^3 LNG; future: 480.000 m^3 LNG
NUMBER OF TANKS	by 2014: 2; future: 3
MAX. LNG SHIP CLASS SIZE REC.	216.000 m^3 LNG
URL AUTHORISED SHIPS	-
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	14,5 m
MAX. SEND OUT PRESSURE	-
TPA REGIME	Regulated

France, Dunkerque — Dunkerque LNG (Groupe EDF)
Start-up: 2015

MAX. HOURLY CAPACITY	NOM. ANNUAL CAPACITY
by 2015: 1.900.000 m^3 (N)/h	by 2015: 13 bm^3 (N)/year

NOMINATION	Yes	ALLOCATION	OBA
MATCHING	Yes	FLOW CONTROL	Yes
SCHEDULE	H/H	MEASUREMENT	Yes

LNG STORAGE CAPACITY	by 2015: 570.000 m^3 LNG
NUMBER OF TANKS	by 2015: 3
MAX. LNG SHIP CLASS SIZE REC.	276.000 m^3 LNG
URL AUTHORISED SHIPS	-
NUMBER OF JETTIES	1
MIN. SEA DEPTH ALONG SIDE	19 m
MAX. SEND OUT PRESSURE	90 bar
TPA REGIME	Exempted

LNG EXPORT TERMINALS

Terminal	Start-up	Capacity	Trains
Norway, Snøhvit — Melkøya / Hammerfest (Statoil)	August 2007	4.3 10^6 t/year	2 trains
Algeria, Arzew (GL 4Z - Camel) (Sonatrach)	1964	0.9 10^6 t/year	3 trains
Algeria, Bethioua (GL 1Z, GL 2Z) (Sonatrach)	1978, 1981	16.2 10^6 t/year	12 trains
Algeria, Skikda (GL 1K) (Sonatrach)	1972	3.1 10^6 t/year	5 trains
Lybia, Marsa-el-Brega (Sirte Oil Co.)	1970	0.6 10^6 t/year	3 trains
Egypt, Idku (Egyptian LNG)	2005	7.2 10^6 t/year	2 trains
Egypt, Damietta (SEGAS)	2005	5.0 10^6 t/year	2 trains
Russia, Shtokman-Teriberka, Barents Sea (Gazprom)	-	7.5 10^6 t/year	
Cyprus, Vassilikos	-	6 10^6 t/year	

LNG IMPORT TERMINAL PROJECTS

Terminal	Start-up	Capacity
Italy, Brindisi (BG Group, Brindisi LNG)	-	8 bcm/y; 320.000 m^3 LNG Storage; 2 tanks
Italy, Taranto (gasNatural)	-	8 bcm/y; 280.000 m^3 LNG Storage; 2 tanks
Italy, Porto Empedocle (Enel, Nuove Energie)	2015	8 bcm/y
Italy, Rada di Augusta - Priolo (ERG, Shell)	-	8 bcm/y
Italy, Porto Recanati (off-shore) (Triton GNL, GDF Suez)	-	5 bcm/y
Italy, Gioia Tauro (LNG Medgas Terminal)	2016	12 bcm/y
Italy, Trinitapoli (Sorgenia)	-	8-12 bcm/y
Italy, Falconara Marittima Offshore (api nòva energia)	-	4 bcm/y
Italy, Rosignano, Ravenna - Offshore (Edison, bp, Solvay)	-	8 bcm/y
Italy, Zaule (Trieste) (gasNatural)	2015	8 bcm/y; 280.000 m^3 LNG Storage; 2 tanks
Italy, Alpi Adriático, Montefalcone / Trieste - Offshore (e.on)	-	8 bcm/y
France, Fos-sur-Mer (Fos Faster LNG terminal)	2017	8-16 bcm/y; 360.000-720.000 m^3 LNG Storage; 2-4 tanks
UK, Anglesey (Amlwch) (off-shore) (Canatxx)	-	13 bcm/y
UK, PortMeridian (FSRU) (Höegh LNG)	2015	3-6 bcm/y
Ireland, Shannon (Shannon LNG, subsidiary of HESS)	2017	6.5-10.8 bcm/y; Up to 800.000 m^3 LNG Storage; Up to 4 tanks
Germany, Rostock (Gasunie, Verbundnetz Gas AG, Vopak)	-	2-5 bcm/y; 150.000-360.000 m^3 LNG Storage
Croatia, Adria LNG, Omisalj (Dina) - Krk island (Adria LNG Nova energija Hrvatske, Total, Plinovodi, e.on, OMV)	2017	10-15 bcm/y
Croatia, Krk island (plinacro)	-	6 bcm/y
Albania, Fiere (off-shore) (Grupo Falcione)	2016	8 bcm/y
Romania, Constanta (AGRI)	-	2-8 bcm/y
Ukraine, Yuzhnyi	2018	10 bcm/y
Turkey, Ceyhan (BOTAŞ)	-	n.a.
Lithuania, Klaipeda (FSRU) (Klaipėdos Nafta)	2014	up to 3 bcm/y; 170.000 m^3 LNG Storage
Estonia, Paldiski (Balti Gaas)	2015	Up to 3 bcm/y; 320.000 m^3 LNG Storage
Estonia, Muuga (Port of Tallinn, elering)	-	-
Latvia, Riga (Latvenergo)	2017	Up to 5 bcm/y
Finland, Joddbole or Tolkkinen (Gasum)	2018	Up to 2 bcm/y
Israel, Hadera (off-shore) (Israel Natural Gas Lines Ltd)	2013	2,5 bcm/y

SMALL SCALE LNG

Terminal	Start-up	Data
Norway, Risavika (Skangass)	2011	0.3 10^6 t/year; 30.000 m^3 LNG
Norway, Karmøy (Gasnor)		
Norway, Kollsnes (Gasnor)		
Norway, Tjeldbergodden		
Sweden, Brunnsviksholmen, Nynäshamn (AGA)	2011	NOM. ANNUAL CAP. 0,5 bm^3 (N)/year; LNG STORAGE CAPACITY 30.000 m^3 LNG
Norway, Øra LNG, Fredrikstad (Skangass)	2011	NOM. ANNUAL CAP. 0,15 bm^3 (N)/year; LNG STORAGE CAPACITY 6.250 m^3 LNG
Sweden, Lysekil (Skangass, Preem)	2013	0,3 bcm/y
Sweden, Göteborg (Göteborg Energi)	-	0,3 bcm/y; 1 tank; 12.000 m^3 LNG Storage

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