Gas Infrastructure Europe

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SMALL SCALE LNG MAP 2020

EXISTING & PLANNED INFRASTRUCTURE
FOR SEA-ROAD-WATERWAYS TRANSPORT

Gas LNG Europe is one of the three columns of Gas Infrastructure Europe - the European association of the Natural Gas Industry, the other columns being: Gas Transmission Europe and 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. Data represents the status of April 2020. More current information on LNG data can be found on the ALSI website at alsi.gie.eu

GLE IS REPRESENTING 15 MEMBERS IN 9 COUNTRIES AND 1 OBSERVER

MEMBERS

Country	Members
BELGIUM	fluxys
FRANCE	dunkerque LNG (fluxys) elengy
GREECE	DESFA
ITALY	Adriatic LNG OLT Offshore LNG Toscana snam
THE NETHERLANDS	Gate terminal
POLAND	GAZ-SYSTEM
PORTUGAL	REN Atlântico
SPAIN	BBG enagas reganosa
UNITED KINGDOM	nationalgrid SOUTH HOOK LNG TERMINAL COMPANY LTD

OBSERVERS

Country	Observer
GREECE	gastrade

DATA SOURCE

Data provided by GLE Member companies
and supplemented by available information collected on the web
Details for all installations are provided in the corresponding database published on:
www.gie.eu

INSTALLATIONS

Status

🟦 in operation 🟥 under construction 🟧 planned ⬛ on hold

LNG Terminal	Facility able to accommodate vessels, and that can receive and further process LNG
• Large Scale LNG Terminal	LNG Terminal able to handle more than 1 mtpa LNG
◉ ◉ ◉	LNG import terminal offering small-scale LNG services
● ● ●	LNG import terminal not offering small-scale LNG services
• Small Scale LNG Terminal	LNG Terminal able to handle up to 1 mtpa LNG
• LNG Bunkering Terminal (Shore to Ship facility)	Small scale LNG Terminal mainly dedicated for supplying LNG-fuelled ships with LNG (*)
Natural Gas Liquefaction Plant ◎ ◎ ◎	Facility producing LNG / large-scale
◎ ◎ ◎	Facility producing LNG / small-scale
Biogas Liquefaction Plant	Facility producing LBG (Liquefied BioGas)
LNG Intermediate Storage ○ ○ ○	Inland depot from which LNG can be dispatched by tank trucks or wagons.
LNG Satellite Storage	Inland depot that is to supply a nearby industrial site or a local gas distribution with regasified LNG (**)
LNG Filling Station ● ● ●	Retail station for supplying motor road vehicles with LNG
25	Operational
6	Expected (facilities under construction & planned)
Truck to Ship Bunkering Area	Port area where LNG-fuelled ships can be bunkered from LNG tank trucks (**)
Small Scale LNG Vessel	LNG carrier vessel with a maximum capacity up to 30.000 m³ LNG
LNG Bunker Vessel (LBV)	Small Scale LNG Vessel dedicated to the supply of LNG-fuelled ships with LNG

(*) shown on the map as Small Scale LNG Terminal; see Table insert
(**) not shown on the map, see comments insert

MAP LEGEND

Country

GIE Member Countries — Other Countries

Cross-border / interconnection points
- operational
- planned

Intra-country or intra balancing zone point
Cross-border interconnection point

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

Gas Reserve areas — drilling platform — gas field

LNG SERVICES

In addition to the traditional services (ship receiving, LNG storage, gas send out into the grid), LNG facilities can offer the following LNG services:

SHIP (RE)LOADING
Transfer of LNG into a vessel for further transportation (*)

TRANSHIPMENT
Direct transfer of LNG from one vessel into another for further transportation

SHIP TO SHIP (STS) bunkering
Supply of LNG-fuelled ships with LNG from an LNG Bunker Vessel

TRUCK TO SHIP (TTS) bunkering
Supply of LNG-fuelled ships with LNG from tank trucks

SHORE TO SHIP bunkering
Supply of LNG-fuelled ships with LNG from an LNG Terminal

TRUCK LOADING
Transfer of LNG on tank trucks for further transportation

RAIL LOADING
Transfer of LNG on tank wagons for further transportation

(*) Some terminals only accept either small- or large-scale vessels

polaris

Version: June 2020
WGS 84 / Pseudo-Mercator projection

Large scale LNG terminals offering Small Scale services

Zeebrugge — BELGIUM — fluxys
Start-up: 1987

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	1.000 m³ LNG	10.000 m³/h
TRANSHIPMENT	YES	1.000 m³ LNG	14.000 m³/h
RELOADING SMALL SCALE	YES	1.000 m³ LNG	10.000 m³/h
TRUCK LOADING	YES	32slots/day (2 bays)	
RAIL LOADING	NO		

Krk Island (FSRU) — CROATIA — lng Hrvatska
Start-up: 2021

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING			
TRANSHIPMENT			
RELOADING SMALL SCALE	planned		
TRUCK LOADING	planned		
RAIL LOADING			

Paldiski — ESTONIA — Balti Gaas / ALEXELA
Start-up: 2025

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	planned		
TRANSHIPMENT			
RELOADING SMALL SCALE	planned		
TRUCK LOADING	planned		
RAIL LOADING	planned		

Dunkerque LNG — FRANCE — dunkerque LNG
Start-up: 2016

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	65.000 m³ LNG	8.800 m³/h
TRANSHIPMENT	NO		
RELOADING SMALL SCALE	under development	5.000 m³ LNG	1.000 / 4.500 m³/h
TRUCK LOADING	YES	8 slots/d (1 bay)	
RAIL LOADING	NO		

Fos Cavaou — FRANCE — FOSMAX LNG
Start-up: 2010

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	*5.000 m³ LNG	4.000 m³/h
TRANSHIPMENT	YES	5.000 m³ LNG	4.500 m³/h
RELOADING SMALL SCALE	YES	*5.000 m³ LNG	4.000 m³/h
TRUCK LOADING	YES	**40 slots/d (2 bays)	
RAIL LOADING	NO		

(*) smaller vessels under study (**) expansion under study

Fos Tonkin — FRANCE — elengy
Start-up: 1972

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	*7.500 m³ LNG	1.000 m³/h
TRANSHIPMENT	under study		
RELOADING SMALL SCALE	YES	*7.500 m³ LNG	1.000 m³/h
TRUCK LOADING	YES	**34 slots/d (2 bays)	
RAIL LOADING	under study		

(*) 5.000 m³ LNG or below under study (**) expansion under study

Montoir de Bretagne — FRANCE — elengy
Start-up: 1980

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	*20.000 m³ LNG	4.000 m³/h
TRANSHIPMENT	YES	20.000 m³ LNG	14.000 m³/h
RELOADING SMALL SCALE	YES	*20.000 m³ LNG	4.000 m³/h
TRUCK LOADING	YES	**18 slots/d (1 bay)	
RAIL LOADING	under study		

(*) 5.000 m³ LNG or below under study (**) expansion under study

Brunsbüttel — GERMANY — German LNG Terminal
Start-up: 2023

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	planned		
TRANSHIPMENT	-		
RELOADING SMALL SCALE	planned		
TRUCK LOADING	planned		
RAIL LOADING	planned		

Stade — GERMANY — MACQUARIE / HEC
Start-up: 2024

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	planned		
TRANSHIPMENT			
RELOADING SMALL SCALE	planned		
TRUCK LOADING	planned		
RAIL LOADING	planned		

Wilhelmshaven (FSRU) — GERMANY — uniper / MOL
Start-up: 2023

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	planned		
TRANSHIPMENT			
RELOADING SMALL SCALE	planned		
TRUCK LOADING	planned		
RAIL LOADING			

Revithoussa — GREECE — DESFA
Start-up: 2000

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	by 2020		2.400 m³/h
TRANSHIPMENT	NO		
RELOADING SMALL SCALE	by 2022	1.000 m³ LNG	
TRUCK LOADING	2020	6-15 slots/d (1 bay)	
RAIL LOADING	NO		

OLT Offshore LNG Toscana FSRU — ITALY — OLT
Start-up: 2013

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	*NO		
TRANSHIPMENT	NO		
RELOADING SMALL SCALE	by 2021		
TRUCK LOADING	NO		
RAIL LOADING	NO		

(*) study could be scheduled subject to market demand

Panigaglia — ITALY — snam
Start-up: 1971

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	*planned		
TRANSHIPMENT	NO		
RELOADING SMALL SCALE	*planned		
TRUCK LOADING	*planned		
RAIL LOADING	NO		

(*) FID expected by end 2020

Independence (FSRU) — LITHUANIA — KN LNG TERMINAL
Start-up: 2014

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	*5.000 m³ LNG	**5.000 m³/h
TRANSHIPMENT	NO		
RELOADING SMALL SCALE	YES	*5.000 m³ LNG	**5.000 m³/h
TRUCK LOADING	***NO		
RAIL LOADING	NO		

(*) unless agreed otherwise
(**) 9.000 when LNG regasification is not performed during LNG reload
(***) possible via onshore station

Gate terminal — THE NETHERLANDS — Gate terminal
Start-up: 2011

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	500 m³ LNG	4.000 m³/h
TRANSHIPMENT	YES	5.000 m³ LNG	12.000 m³/h
RELOADING SMALL SCALE	YES	500 m³ LNG	4.000 m³/h
TRUCK LOADING	YES	44 slots/d (3 bays)	
RAIL LOADING	under study		

Świnoujście LNG terminal (President Lech Kaczyński) — POLAND — Polskie LNG / GAZ-SYSTEM
Start-up: 2016

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	by 2022		
TRANSHIPMENT	by 2022		
RELOADING SMALL SCALE	by 2022		
TRUCK LOADING	YES	16 slots/d (2bays)	
RAIL LOADING	by 2022		

Sines — PORTUGAL — REN Atlântico
Start-up: 2004

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	45.000 m³ LNG	1.500 m³/h
TRANSHIPMENT	NO		
RELOADING SMALL SCALE	under study		
TRUCK LOADING	YES	36 slots (3 bays)	
RAIL LOADING	NO		

Barcelona — SPAIN — enagas
Start-up: 1968

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	2.000 m³ LNG	4.200 m³/h
TRANSHIPMENT	YES	2.000 m³ LNG	
RELOADING SMALL SCALE	YES	2.000 m³ LNG	4.000 m³/h
TRUCK LOADING	YES	52 slots/d (3 bays)	
RAIL LOADING	under study		

Bilbao — SPAIN — BBG
Start-up: 2003

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	any size	3.500 m³/h
TRANSHIPMENT	NO		
RELOADING SMALL SCALE	YES	any size	*1.500-3.500 m³/h
TRUCK LOADING	YES	15 slots/d (1 bay)	
RAIL LOADING	NO		

(*) depending on vessel size

Cartagena — SPAIN — enagas
Start-up: 1989

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	*4.000 m³ LNG	7.222 m³/h
TRANSHIPMENT	YES	4.000 m³ LNG	1.800 m³/h
RELOADING SMALL SCALE	YES	*4.000 m³ LNG	4.000 m³/h
TRUCK LOADING	YES	52 slots/d (3 bays)	
RAIL LOADING	NO		

(*) smaller vessels under study

Gijón (Musel) — SPAIN — enagas
Start-up: *

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	*	**65.000 m³ LNG	6.000 m³/h
TRANSHIPMENT		***	
RELOADING SMALL SCALE	*	***	
TRUCK LOADING	*	30 slots/d (2 bays)	
RAIL LOADING	NO		

(*) The start-up of El Musel LNG plant is conditioned to authorisation by the Government according to Royal Decree-Law 13/2012.
(**) smaller vessel under study (***) under study

Huelva — SPAIN — enagas
Start-up: 1988

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	*7.500 m³ LNG	3.690 m³/h
TRANSHIPMENT	NO		
RELOADING SMALL SCALE	YES	*7.500 m³ LNG	2.000 m³/h
TRUCK LOADING	YES	52 slots/d (3 bays)	
RAIL LOADING	YES		

(*) smaller vessels under study

Mugardos — SPAIN — reganosa
Start-up: 2007

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	*7.500 m³ LNG	2.000 m³/h
TRANSHIPMENT	under study		
RELOADING SMALL SCALE	YES		
TRUCK LOADING	YES	36 slots/d (2 bays)	
RAIL LOADING	NO		

(*) smaller vessels under study

Sagunto — SPAIN — saggas
Start-up: 2006

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	*7.500m³ LNG	3.000 m³/h
TRANSHIPMENT	under study		
RELOADING SMALL SCALE	under study		
TRUCK LOADING	YES	35 slots/d (2 bays)	
RAIL LOADING	NO		

(*) smaller vessels under study

Aliaga Izmir — TURKEY — EgeGaz
Start-up: 2006

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING			
TRANSHIPMENT			
RELOADING SMALL SCALE			
TRUCK LOADING	YES	95 slots/d	
RAIL LOADING			

Marmara Ereglisi — TURKEY
Start-up: 1994

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING			
TRANSHIPMENT			
RELOADING SMALL SCALE			
TRUCK LOADING	YES	75 slots/d (3 bays)	
RAIL LOADING			

Isle of Grain — UNITED KINGDOM — nationalgrid
Start-up: 2005

ADDITIONAL SERVICES	STATUS	MIN. SHIP SIZE	CAPACITY (LNG)
RELOADING	YES	*70.000 m³ LNG	**1.000-2.700 m³/h
TRANSHIPMENT	YES	70.000 m³ LNG	**
RELOADING SMALL SCALE	2021	1.000 m³ LNG	
TRUCK LOADING	YES	36 slots/d (2 bays)	
RAIL LOADING	***NO		

(*) smaller vessels under study (**) ship dependent
(***) rail connection available

Small Scale LNG vessels / LNG bunker vessels

#	Ship name	Type ****	Owner / operator	Main operating area (base port)	Capacity m³ LNG	Year
1	Pioneer Knutsen	LCV	Knutsen LNG	Norway	1.100 m³	2004
2	Coral Methane	LBV / LCV	Anthony Veder / Gasnor (Shell)	Europe	7.550 m³	2009
3	Coral Favia	LCV	Anthony Veder	Northern Europe	10.000 m³	2010
4	Coral Fraseri	LBV / LCV	GATX / Anthony Veder / Titan LNG	Worldwide	10.000 m³	2010
5	Coral Fungia	LCV	Anthony Veder	Northern Europe	10.000 m³	2011
6	Coral Furcata	LCV	GATX / Anthony Veder	Worldwide	10.000 m³	2011
7	Seagas	LBV	Aga Gas / Sirius Shipping	Baltic Sea (Stockholm)	170 m³	2013**
8	Coral Anthelia	LCV	Anthony Veder	Worldwide	6.500 m³	2013
9	Coral Energy	LCV	Anthony Veder / Gasum	Worldwide	15.600 m³	2013
10	Engie Zeebrugge	LBV	Engie, Mitsubishi, NYK, Fluxys	Europe (Zeebrugge)	5.000 m³	2017
11	Cardissa	LBV	Shell	NW Europe (Rotterdam)	6.500 m³	2017
12	Coralius	LBV	Sirius Veder Gas / Gasum	Nordic	5.800 m³	2017
13	Oizmendi ***	LBV	Itsas Gas / Cepsa	Iberia (Huelva)	600 m³	2018**
14	Coral EnergICE	LCV	Anthony Veder / Gasum	Baltic	18.000 m³	2018
15	Bunker Breeze ***	LBV	Suardiaz Energy Shipping / Cepsa	Iberia (Algeciras)	1.200 m³	2018
16	Kairos	LBV	Babcock Schulte Energy / Nauticor	Baltic	7.500 m³	2019
17	FlexFueler 001 *	LBV	Titan LNG	ARA zone (Rotterdam)	1.480 m³	2019
18	LNG London *	LBV	LNG Shipping (Victor-Sogestran) / Shell	ARA zone (Rotterdam)	3.000 m³	2019
19	Gas Agility	LBV	MOL / Total Marine Fuels Global Solutions	NW Europe	18.600 m³	2020
20	New	LBV / LCV	Avenir LNG (Stolt Nielsen)	Medsea (Oristano) + other (Malaysia)	7.500 m³	2020
21	New	LBV / LCV	Avenir LNG (Stolt Nielsen)	NW Europe (Rosyth) + other (Brazil)	7.500 m³	2020
22	FlexFueler 002 *	LBV	Titan LNG - Fluxys / Titan LNG	ARA zone (Antwerp)	1.480 m³	2020
23	New	LBV	Infortar / Elenger (Eesti Gaas)	Baltic (Gulf of Finland)	6.000 m³	2020
24	Bergen LNG	LBV	Bergen Tankers / Shell Gasnor	Norway (Bergen)	840 m³	2020 **
25	New	LBV	Shturman Koshelev / Gazpromneft Marine	Baltic	5.800 m³	2020
26	New	LCV	Knutsen / Edison	Medsea (Ravenna)	30.000 m³	2021
27	New	LBV	MOL / Total Marine Fuels Global Solutions	Medsea (Marseille-Fos)	18.600 m³	2021
28	New **	LBV	RR Panfido	North Adriatic (Venice)	4.000 m³	2021
29	Titan Hyperion *	LBV	Titan LNG	ARA zone	8.000 m³	2021
30	New	LBV	Gaz System, Polskie LNG	Baltic (Świnoujście)	3.000 m³	2022

* inland gas tanker ** retrofit of existing vessel *** multi product supply vessel **** LBV: LNG Bunker Vessel ; LCV: LNG Carrier Vessel

🟦 Operational 🟥 Ordered / under construction 🟧 Planned

Key Data
Small Scale services offered on LNG terminals* in Europe**
# services by type and status

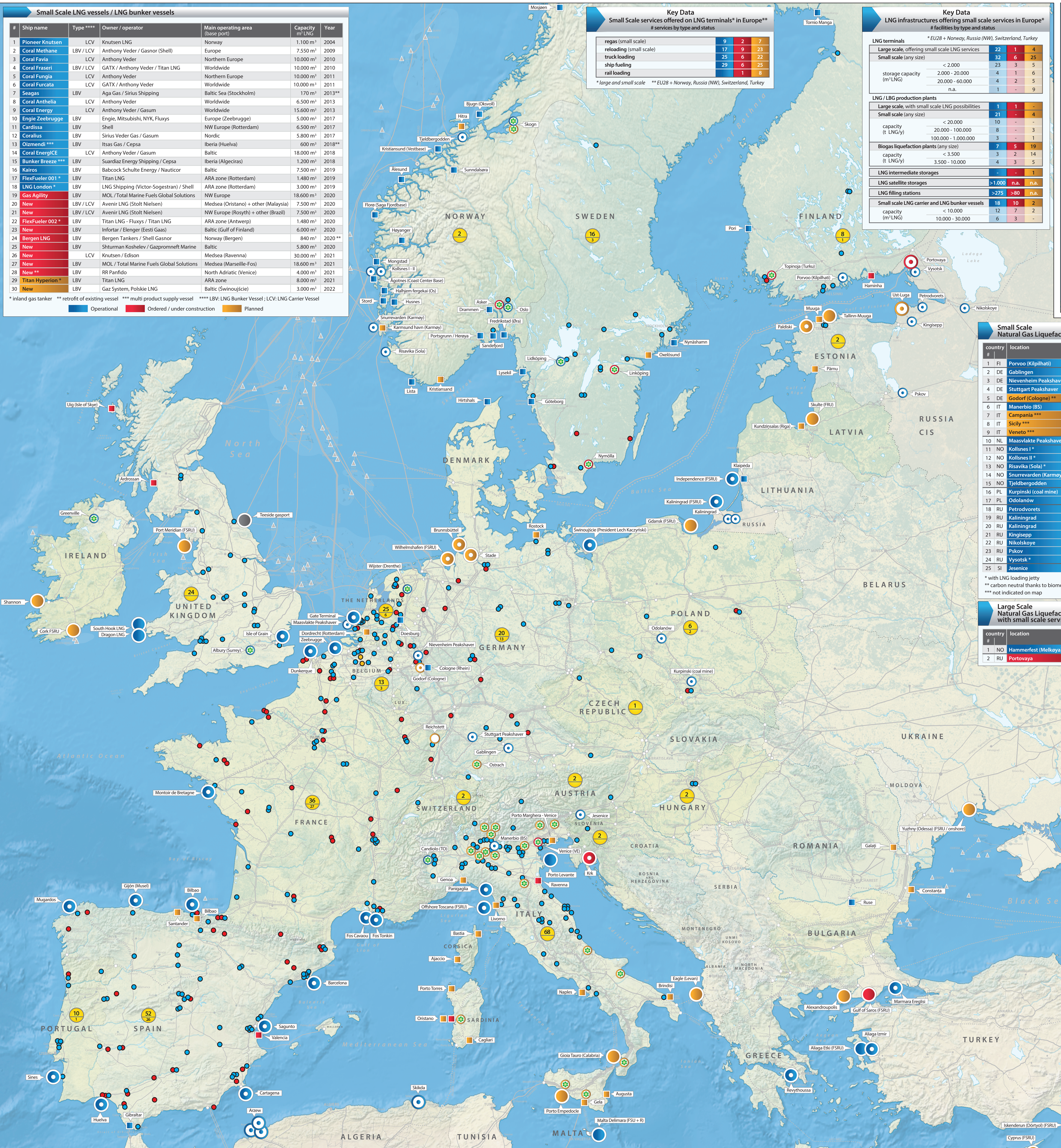
	🟦	🟥	🟧
regas (small scale)	9	2	7
reloading (small scale)	17	9	23
truck loading	25	6	22
ship fueling	29	6	25
rail loading		1	8

* large and small scale ** EU28 + Norway, Russia (NW), Switzerland, Turkey

Key Data
LNG infrastructures offering small scale services in Europe*
# facilities by type and status

* EU28 + Norway, Russia (NW), Switzerland, Turkey

LNG terminals		🟦	🟥	🟧
Large scale, offering small scale LNG services		22	1	4
Small scale (any size)		32	6	25
storage capacity (m³ LNG)	< 2.000	23	3	5
	2.000 - 20.000	4	1	6
	20.000 - 60.000	4	2	5
	n.a.	1	-	9
LNG / LBG production plants				
Large scale, with small scale LNG possibilities		1	1	-
Small scale (any size)		21	-	4
capacity (t LNG/y)	< 20.000	10	-	-
	20.000 - 100.000	8	-	3
	100.000 - 1.000.000	3	-	1
Biogas liquefaction plants (any size)		7	5	19
capacity (t LNG/y)	< 3.500	3	2	14
	3.500 - 10.000	4	3	5
LNG intermediate storages		-	-	1
LNG satellite storages		>1.000	n.a.	n.a.
LNG filling stations		>275	>80	n.a.
Small scale LNG carrier and LNG bunker vessels		18	10	2
capacity (m³ LNG)	< 10.000	12	7	2
	10.000 - 30.000	6	3	-


NORWAY
SWEDEN
FINLAND
ESTONIA
LATVIA
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RUSSIA
RUSSIA CIS
BELARUS
UKRAINE
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ROMANIA
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THE NETHERLANDS
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SERBIA
MONTENEGRO
UNMI KOSOVO
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NORTH MACEDONIA
ITALY
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SPAIN
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MOROCCO
ALGERIA
TUNISIA
MALTA
LYBIA
EGYPT
ISRAEL
JORDAN
LEBANON
CYPRUS
CORSICA
SARDINIA
MADEIRA
North Sea
Baltic Sea
Irish Sea
Atlantic Ocean
Bay of Biscay
Mediterranean Sea
Black Sea
Gulf of Bothnia
Gulf of Finland
Gulf of Riga
Ligurian Sea
Tyrrhenian Sea
Adriatic Sea
Ionian Sea
Aegean Sea
Balearic Sea
Gulf of Lion
Skagerrak
Kattegat
Ladoga Lake
Sea of Azov
Mosjøen
Tornio Manga
Bjugn (Oksvoll)
Hitra
Skogn
Tjeldbergodden
Kristiansund (Vestbase)
Sunndalsøra
Ålesund
Florø (Saga Fjordbase)
Høyanger
Mongstad
Kollsnes I - II
Ågotnes (Coast Center Base)
Halhjem fergekai (Os)
Stord
Husnes
Snurrevarden (Karmøy)
Karmsund havn (Karmøy)
Risavika (Sola)
Lista
Kristiansand
Asker
Drammen
Oslo
Fredrikstad (Øra)
Portsgrunn / Herøya
Sandefjord
Hirtshals
Lidköping
Lysekil
Göteborg
Linköping
Nynäshamn
Oxelösund
Nymölla
Pori
Topinoja (Turku)
Porvoo (Kilpilhati)
Haminha
Portovaya
Vysotsk
Ust-Luga
Petrodvorets
Nikolskoye
Kingisepp
Muuga
Tallinn-Muuga
Paldiski
Pärnu
Pskov
Skulte (FRU)
Kundziņsalas (Riga)
Klaipėda
Independence (FSRU)
Kalingrad (FSRU)
Kalingrad
Gdansk (FSRU)
Świnoujście (President Lech Kaczyński)
Rostock
Brunnsbüttel
Stade
Wilhelmshafen (FSRU)
Wijster (Drenthe)
Odolanów
Kurpinski (coal mine)
Uig (Isle of Skye)
Ardrossan
Greenville
Teeside gasport
Port Meridian (FSRU)
Shannon
Cork FSRU
South Hook LNG
Dragon LNG
Albury (Surrey)
Isle of Grain
Gate Terminal
Maasvlakte Peakshaver
Dordrecht (Rotterdam)
Zeebrugge
Dunkerque
Doesburg
Nievenheim Peakshaver
Cologne (Rhein)
Godorf (Cologne)
Reichstett
Stuttgart Peakshaver
Gablingen
Ostrach
Montoir de Bretagne
Gijón (Musel)
Mugardos
Bilbao
Santander
Candiolo (TO)
Manerbio (BS)
Porto Marghera - Venice
Venice (VE)
Jesenice
Krk
Porto Levante
Ravenna
Genoa
Panigaglia
Offshore Toscana (FSRU)
Livorno
Fos Cavaou
Fos Tonkin
Bastia
Ajaccio
Porto Torres
Oristano
Cagliari
Naples
Brindisi
Eagle (Levan)
Gioia Tauro (Calabria)
Augusta
Gela
Porto Empedocle
Malta Delimara (FSU + R)
Barcelona
Sagunto
Valencia
Cartagena
Sines
Huelva
Gibraltar
Arzew
Skikda
Ruse
Constanța
Galați
Yuzhny (Odessa) (FSRU / onshore)
Alexandroupolis
Gulf of Saros (FSRU)
Marmara Ereglisi
Aliaga Izmir
Aliaga Etki (FSRU)
Revythoussa
Iskenderun (Dörtyol) (FSRU)
Cyprus (FSRU)
Cyprus, Vassilikos
Hadera deepwater
Idku
Damietta
Jorf Lasfar / El Jadida
2
16 3
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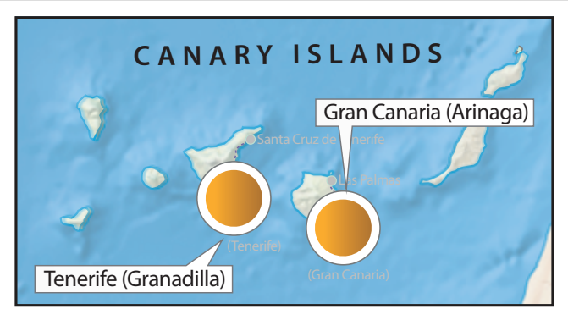
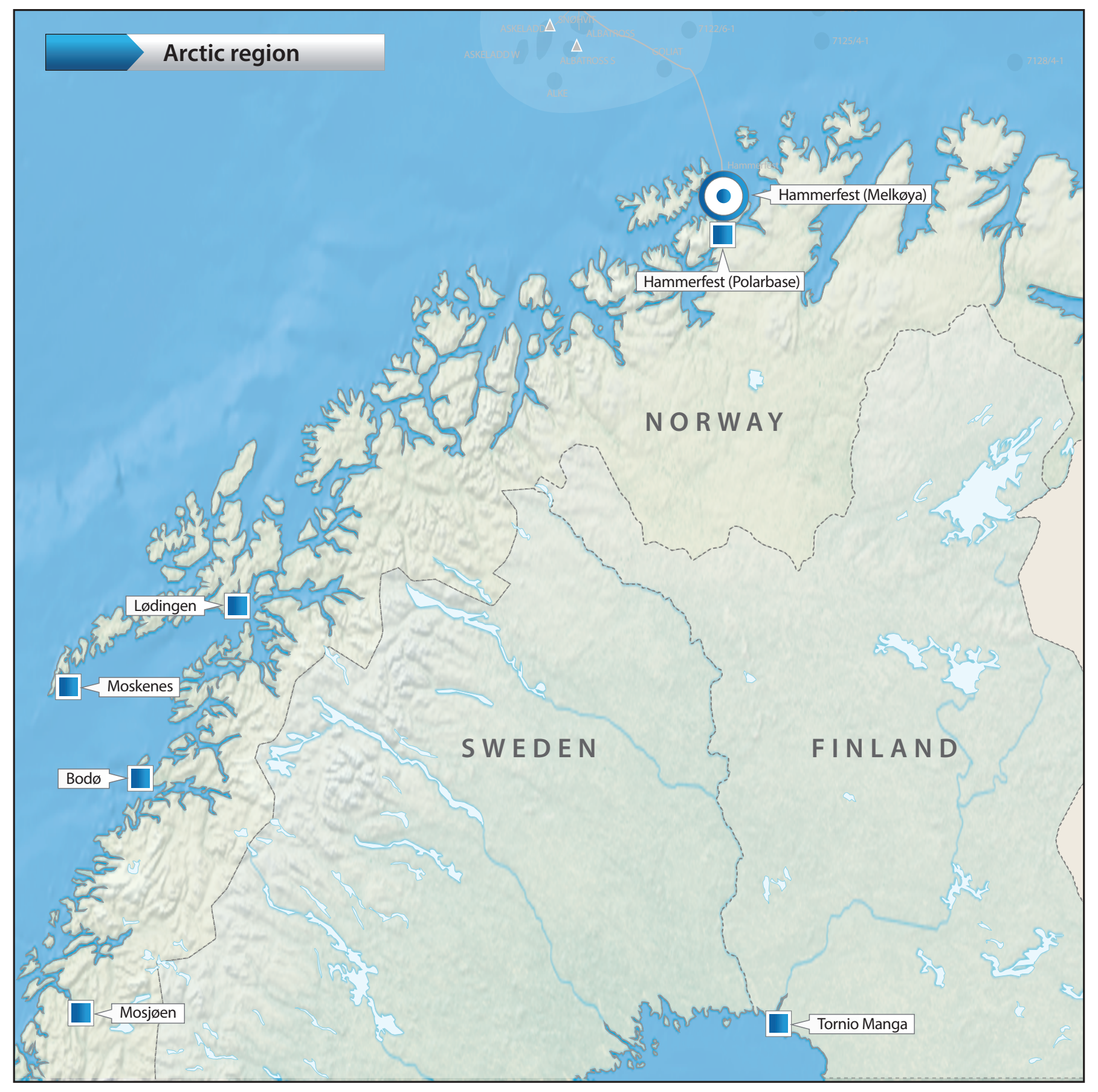
24
25 6
13 3
20 13
6 2
1
36 27
2
2
2
2
68
10 1
52 26


CANARY ISLANDS
Gran Canaria (Arinaga)
Tenerife (Granadilla)


Arctic region
Hammerfest (Melkøya)
Hammerfest (Polarbase)
NORWAY
Lødingen
Moskenes
Bodø
SWEDEN
FINLAND
Mosjøen
Tornio Manga

Small Scale Natural Gas Liquefaction Plants

#	country	location	capacity tons/year
1	FI	Porvoo (Kilpilhati)	20.000
2	DE	Gablingen	6.000
3	DE	Nievenheim Peakshaver	16.000
4	DE	Stuttgart Peakshaver	40.000
5	DE	Godorf (Cologne) **	100.000
6	IT	Manerbio (BS)	700
7	IT	Campania ***	50.000
8	IT	Sicily ***	
9	IT	Veneto ***	50.000
10	NL	Maasvlakte Peakshaver	90.000
11	NO	Kollsnes I *	40.000
12	NO	Kollsnes II *	80.000
13	NO	Risavika (Sola) *	300.000
14	NO	Snurrevarden (Karmøy)	20.000
15	NO	Tjeldbergodden	12.000
16	PL	Kurpinski (coal mine)	
17	PL	Odolanów	
18	RU	Petrodvorets	
19	RU	Kalingrad	150.000
20	RU	Kalingrad	20.000
21	RU	Kingisepp	7.000
22	RU	Nikolskoye	
23	RU	Pskov	23.000
24	RU	Vysotsk *	660.000
25	SI	Jesenice	2.500

* with LNG loading jetty
** carbon neutral thanks to biomethane certificates
*** not indicated on map

Large Scale Natural Gas Liquefaction Plants with small scale services

#	country	location	capacity tons/year
1	NO	Hammerfest (Melkøya)	4.200.000
2	RU	Portovaya	1.500.000

Biogas Liquefaction Plants

#	country	location	capacity tons/year
1	DE	Ostrach	3.600
2	FI	Topinoja (Turku)	2.600
3	IT	Candiolo (TO)	2.000
4	IT	Venice (VE)	3.000
5	IT	18 projects*	60.000
6	NL	Wijster (Drenthe)	1.500
7	NO	Asker	7.000
8	NO	Oslo	4.000
9	NO	Skogn (phase 1)	8.000
10	NO	Skogn (phase 1)	8.000
11	SE	Lidköping	5.500
12	SE	Linköping	5.500
13	SE	Nymölla	5.100
14	UK	Albury (Surrey)	5.000
15	UK	Greenville	1.000

* source: CIB (Consorzio Italiano Biogas) capacities from 1 000 to 7 000 t LNG/ y; projects indicated on the map

LNG / LNG-CNG Filling Stations

#	country	Operational	Expected
1	Austria	2	
2	Belgium	13	3
3	Czechia	1	
4	Estonia	2	
5	Finland	8	1
6	France	36	27
7	Germany	20	13
8	Hungary	2	
9	Italy	68	
10	Netherlands	25	6
11	Norway	2	
12	Poland	6	2
13	Portugal	10	1
14	Slovenia	2	
15	Spain	52	
16	Sweden	16	3
17	Switzerland	2	
18	United Kingdom	24	

Small Scale LNG Terminals

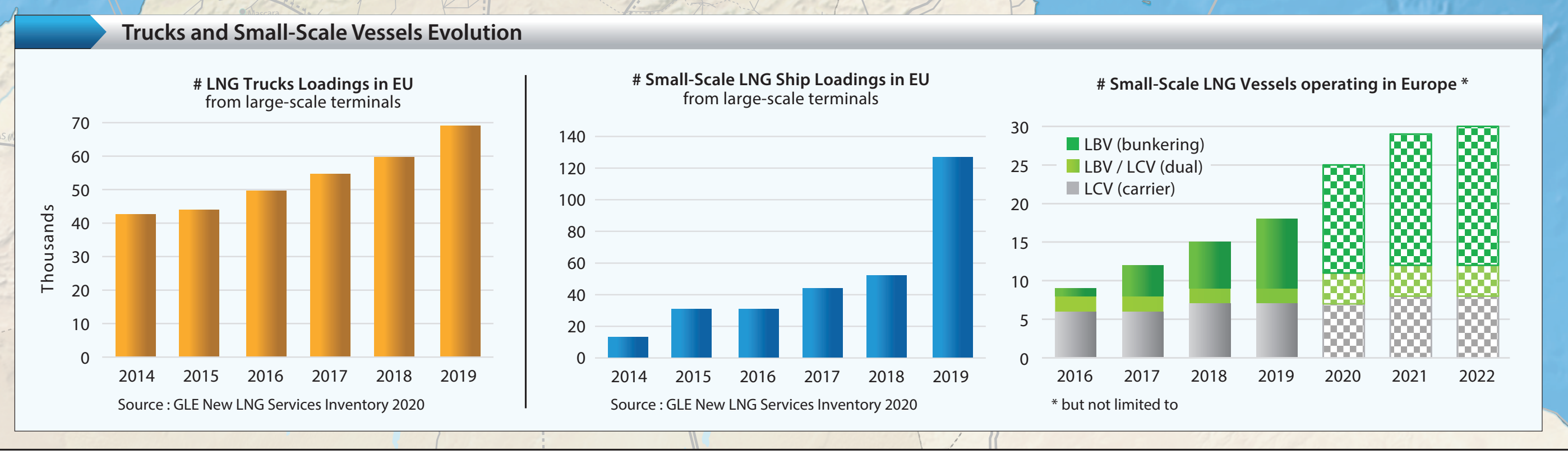
#	country	location	storage m³ LNG	services: regas	truck * loading	ship reloading	ship fuelling
1	BU	Ruse (Danube) *riverside*	1.000		✓	✓	✓
2	DK	Hirstahl	500				✓
3	EE	Muuga (Tallinn)	4.000	✓	✓	✓	✓
4	EE	Pärnu	5.500		✓	✓	✓
5	FI	Hamina	30.000	✓	✓	✓	✓
6	FI	Pori	28.500	✓	✓	✓	✓
7	FI	Tornio Manga	50.000	✓	✓	✓	✓
8	FR	Ajaccio (Corsica)	40.000	✓	✓	✓	✓
9	FR	Bastia (Corsica)	40.000	✓	✓	✓	✓
10	DE	Cologne (Rhein) *riverside*	200			✓	✓
11	DE	Rostock	38.000		✓	✓	✓
12	IT	Augusta (Sicilia)			✓	✓	✓
13	IT	Brindisi	19.550		✓	✓	✓
14	IT	Cagliari (Sardinia)		✓	✓	✓	✓
15	IT	Gela (Sicilia)			✓	✓	✓
16	IT	Genoa	10.000		✓	✓	✓
17	IT	Livorno	9.000		✓	✓	✓
18	IT	Naples			✓	✓	✓
19	IT	Oristano (Sardinia)	10.600	✓	✓	✓	✓
20	IT	Oristano (Sardinia)	10.000	✓	✓	✓	✓
21	IT	Porto Marghera - Venice	32.000		✓	✓	✓
22	IT	Porto Torres (Sardinia)		✓	✓	✓	✓
23	IT	Ravenna	20.000		✓	✓	✓
24	LI	Klaipeda	5.000		✓	✓	✓
25	LV	Kundzinsalas (Riga)	40.000		✓	✓	✓
26	NL	Doesburg *riverside*	70				✓
27	NL	Dordrecht (Rotterdam) *riverside*					✓
28	NO	Agotnes (Coast Center Base)	500				✓
29	NO	Ålesund (Bingsa)	1.400	✓			✓
30	NO	Bjugn (Oksvoll)	750	✓			✓
31	NO	Bodø	130				✓
32	NO	Drammen	150				✓
33	NO	Floro (Saga Fjordbase)	500				✓
34	NO	Fredrikstad (Øra)	5.900	✓	✓		✓
35	NO	Halhjem fergekai (Os)	1.000				✓
36	NO	Hammerfest (Polarbase)	1.250				✓
37	NO	Hitra	1.000				✓
38	NO	Høyanger	400				✓
39	NO	Husnes	500				✓
40	NO	Karmsund havn (Karmøy)	-				✓
41	NO	Kristiansand	700				✓
42	NO	Kristiansund (Vestbase)	400				✓
43	NO	Lista	750				✓
44	NO	Lødingen	250				✓
45	NO	Mongstad	1.000				✓
46	NO	Mosjoen	3.500	✓	✓		✓
47	NO	Mosknenes	150				✓
48	NO	Porsgrunn (Herøya)	1.000				✓
49	NO	Sandefjord	250				✓
50	NO	Stord	100				✓
51	NO	Sunndalsøra	1.400				✓
52	RO	Constanța					✓
53	RO	Galati *riverside*					✓
54	ES	Bilbao	1.000				✓
55	ES	Santander	1.000				✓
56	ES	Valencia	400				✓
57	SE	Göteborg	-				✓
58	SE	Lysekil	30.000	✓	✓		
59	SE	Nynäshamn	20.000	✓	✓		
60	SE	Oxelösund	500 - 30.000	✓	✓ 🚆	✓	✓
61	UK	Gibraltar	5.000	✓			
62	UK	Ardrossan	150				✓
63	UK	Uig (Isle of Skye)	150				✓

* can also include rail loading 🚆

LNG Intermediate Storage

#	country	location	storage m³ LNG	services: regas	truck loading	rail reloading
1	FR	Reichstett			✓	✓

Trucks and Small-Scale Vessels Evolution



Source: GLE New LNG Services Inventory 2020

Source: GLE New LNG Services Inventory 2020

* but not limited to

LNG Satellite Storages

There are more than 1000 LNG satellite storages all over Europe. Many of these facilities are private (e.g. for industrial use). Others are operated by local gas distribution companies or communities. Public sources to identify the location or operator are very limited. Therefore, the LNG satellite storages are not shown on this map. Note that their use may be quite extensive; e.g. **Madeira** Island whose power station is supplied by iso-containers from the continent.

Truck to Ship bunkering areas

No stationary installation is needed to perform Truck to Ship bunkering operation. The operation can potentially be carried out in any port, so the number of such area may vary rapidly. Therefore their locations are not show on the map.