

THE EUROPEAN NATURAL GAS NETWORK

CAPACITIES AT CROSS-BORDER POINTS ON THE PRIMARY MARKET

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 related to projects indicated on this Map is based on publicly available information. More current information can be found at www.gasroads.eu

ENTSOG - 33 MEMBERS IN 22 COUNTRIES

- AUSTRIA: 3·G, OMV, TAG, Trans Austria Gasleitung GmbH
- BELGIUM: FLUXYS
- BULGARIA: BULGARTRANSGAZ
- CZECH REP.: ENERGINET/DK
- FINLAND: Gasum
- FRANCE: GRUGAZ, TIGF, Open Grid Europe The Gas Wheel, gasumhe
- GERMANY: Thyssengas, ontras, WINGAS TRANSPORT
- GREECE: DESFA
- HUNGARY: gaslink
- IRELAND: EDISON, stiam rete gas
- ITALY: creos
- LUXEMBURG: gas transport services
- THE NETHERLANDS: GAZE SYSTEM
- POLAND: REN Gasodutos
- PORTUGAL: TRANSGAZ
- ROMANIA: eustream
- SLOVAK REPUBLIC: gaslink
- SLOVENIA: enagas
- SPAIN: swede gas
- SWEDEN: swede gas
- UNITED KINGDOM: nationalgrid, interconnector, premier transmission

KEYS

- Virtual Trading Points** (DT)
- Cross-border interconnection point within EU and with non-EU third country (export)** (OT)
- Cross-border interconnection point with non-EU third country (import)** (OI)
- Intra-country or intra balancing zone points** (IT)
- Non-EU Cross-border interconnection point (undersea) pipeline Project interconnection** (OT)
- Dockside regasification facility** (OT)

LNG Import

- LNG Terminal's entry point into transmission system / Operational
- LNG Terminal / Under const. or Projected

LNG Export

- LNG Export Terminal / Operational
- LNG Export Terminal / Project

LNG Small Scale

- Small scale LNG liquefaction plant / Operational
- Small scale LNG liquefaction plant / Project

Nr Location System Operators logos

Nr	Location	System Operators logos
020	Tarvisio (IT) / Arnoldstein (AT)	TAG, EDISON
021	Tarvisio (IT) / Arnoldstein (AT)	TAG, EDISON

Assumed GCV for conversion to MW Net-Id (MWNet) reference combustion temperature 25C

System Operators: refers to the 1st TSO on the new refers to the 2nd TSO on the new

Max. technical capacity in Gt/d (January 2012)

Point physically bi-directional

Virtual backhaul offered (no physical flow possible)

Virtual backhaul not offered (no physical flow possible)

No data available

Not applicable

When different Maximum Technical Capacities are defined by the neighbouring TSOs for the same Interconnection Point, the lesser rate is applied.

If capacity information is available only on one side of the border due to confidentiality reasons, the available figure is selected for publication.

Countries

- ENTSOG Member Countries
- Other Countries

Transport by pipeline

- under 24"
- 24" to 36"
- 36" and over
- project
- project option

Transport by tanker

- LNG route
- LNG route project

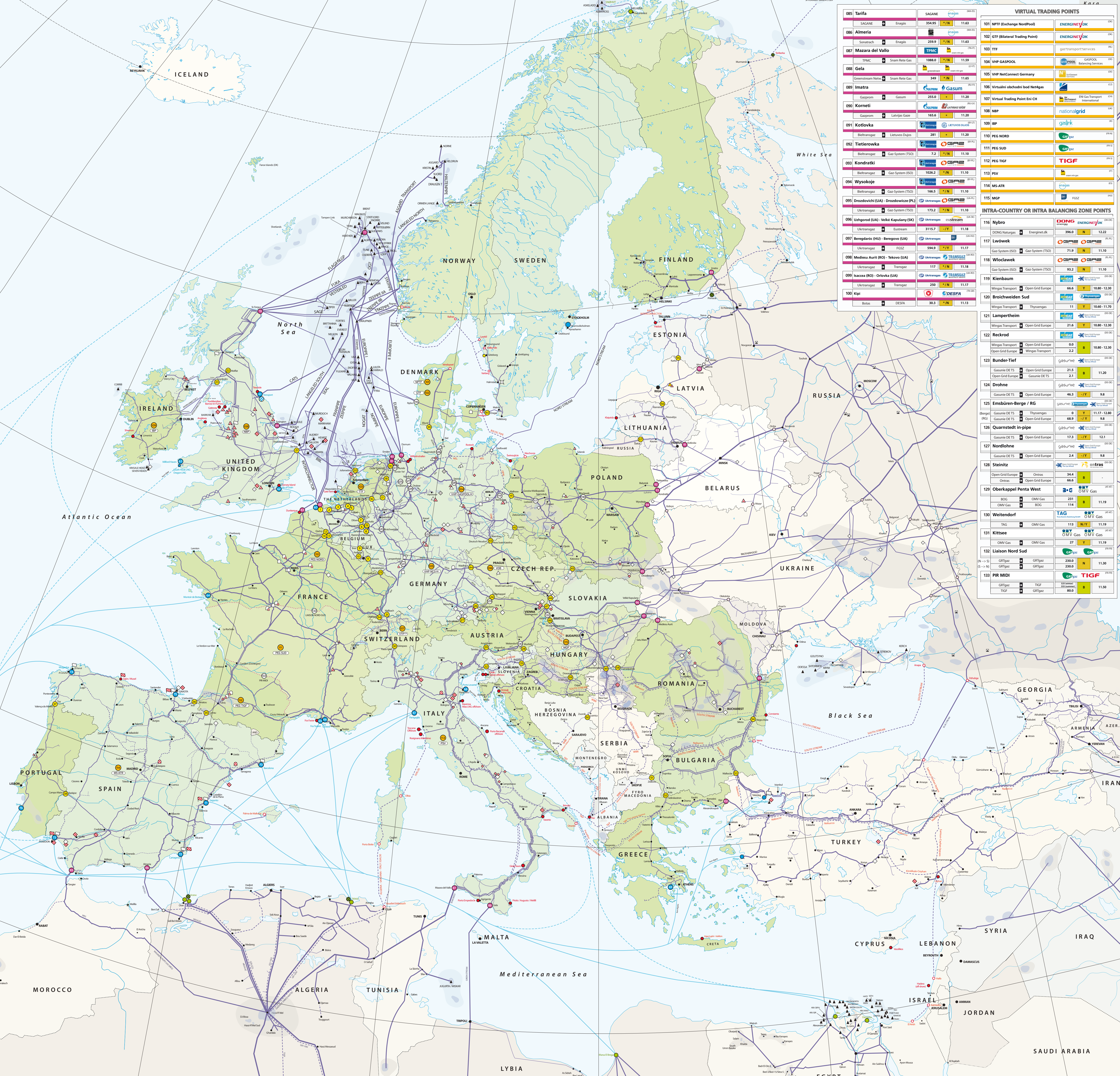
Gas Reserve areas

- gas field
- drilling platform

Gas storage facilities

- LNG Peak Shaving
- Acquirer
- Salt cavity - cavern
- Depleted (Gas field on shore / offshore)
- Other type
- Unknown
- Gas storage project
- Gas storage facilities in non-ENTSOG Member countries

CROSS-BORDER INTERCONNECTION POINTS WITHIN EU		CROSS-BORDER IMPORT POINTS WITH NON-EU COUNTRY			
Nr	Location	System Operators logos	Nr	Location	System Operators logos
001	Zeebrugge (Z) / HUB	Fluxys	001	Zeebrugge LNG	Fluxys
002	Zelzate	Fluxys	002	Teeside	National Grid
003	Zandvliet H-gas	Fluxys	003	Ile de Grain	National Grid
004	Hilvarenbeek	Fluxys	004	Millford Haven	National Grid
005	Zandvliet L-gas (NL) / Poppel (BE)	N/A	005	Montoir de Bretagne	Eni, GDF
006	Gravenwezen (NL) / Gravenwezen (BE)	Fluxys	006	Fos Tonkin - Fos Cavaou	Eni, GDF
007	Obicht (NL) / Gravenwezen (BE)	Fluxys	007	Panigaglia	Eni, GDF
008	Synatten (BE) / Lichtenbusch / Roeren (DE)	Fluxys	008	Cavarzere Porto Levante / Adriatic LNG	Eni, GDF
009	Bras	CREOS	009	Revythoussa	DESFA, DESFA
010	Petange	CREOS	010	Barcelona	Enagas
011	Remich	CREOS	011	Sagunto	SOGAS, Enagas
012	Blaugies Seneo (BE) / Valenciennes (FR)	Fluxys	012	Cartagena	Enagas
013	Blaugies Trou (BE) / Valenciennes (FR)	Fluxys	013	Huelva	Enagas
014	Blaugies (BE) / Valenciennes (FR)	Fluxys	014	Mugardos	Enagas
015	Bochtz-Vetschau (ThyssenGas)	ThyssenGas	015	Bilbao	BBG, Enagas
016	Zevenaar	Open Grid Europe, ThyssenGas	016	Sines	REN Gasodutos
017	Winterswijk	Open Grid Europe	017	Tampen Link	Gasco
018	Vlieghuis	ThyssenGas	018	St. Fergus (Vesterled)	Gasco
019	Bunde (DE) / Oude Statenvij (NL)	Open Grid Europe, ThyssenGas	019	Dornum / NETRA	Gasco
020	Bunde (DE) / Oude Statenvij (NL)	Open Grid Europe, ThyssenGas	020	Emden (EPT1)	Gasco
021	Julianadorp (GZ) / Bafdegang (BB)	BBG, Enagas	021	Emden (NPT)	Gasco
022	Baxton (BB) / Falk	BBG, Enagas	022	Zeebrugge ZPT	Fluxys
023	Maaf	National Grid, GDF	023	Dunkerque	Fluxys
024	Overkoppel	BOG, National Grid	024	Easington	Gasco
025	Melksham (DE) / Oberbach (FR)	GDF, BOG			
026	Osarenden (AT) / Hagenau (DE)	OMV Gas, WINGAS TRANSPORT			
027	Kiefernfelden	Bayern, TIGF			
028	Murfeld (AT) / Cerlek (SI)	OMV Gas, Gaspro Pipeline			
029	Tarvisio (IT) / Arnoldstein (AT)	TAG, EDISON			
030	Griepas (CZ) / Passo Gries (IT)	EN Gas Transp, SOGAS			
031	Walzbühl	EN Gas Transp, SOGAS			
032	Gorizia (IT) / Sempeter (SI)	Gaspro Pipeline, SOGAS			
033	Bogatec	Gaspro Pipeline, SOGAS			
034	Ortova (FR) / Rivesaltes (CZ)	Fluxys			
035	Larzac	TIGF			
036	Biriatou (FR) - Irun (ES)	TIGF, Naturgas Enegas			
037	Valença do Minho (PT) / Tróia (ES)	Enagas, REN Gasodutos			
038	Badoaje (ES) / Campo Maior (PT)	Enagas, REN Gasodutos			



VIRTUAL TRADING POINTS

Nr	Location	System Operators logos
085	Tarifa	SAGANE
086	Almería	Enagas
087	Mazara del Vallo	TPAC
088	Gela	TPAC
089	Imatra	GASUM
090	Korneti	Enagas
091	Kotlovka	Enagas
092	Tietarowka	Enagas
093	Kondratki	Enagas
094	Wysokoje	Enagas
095	Oradovitch (UA) - Dniprovice (PL)	Ukrtransgaz
096	Luhans'k (UA) - Nikola Kapulanyin (SK)	Ukrtransgaz
097	Beregovits (HR) - Beregovo (UA)	Ukrtransgaz
098	Mediasiu Aurit (RO) - Mikoze (UA)	Ukrtransgaz
099	Isacova (RO) - Orlovka (UA)	Ukrtransgaz
100	Kipi	DESFA

INTRA-COUNTRY OR INTRA BALANCING ZONE POINTS

Nr	Location	System Operators logos
116	Nybro	EDNG, ENERGINET/DK
117	Lwówek	Enagas, SOGAS
118	Włodawek	Enagas, SOGAS
119	Kienbaum	Enagas, SOGAS
120	Broilweiden Sud	Ukrtransgaz
121	Lampertshaim	Wingas Transport
122	Reckrod	Wingas Transport
123	Bunder-Tief	GDF, SOGAS
124	Drohne	Gasco, ENI
125	Emsbüren Berge / RG	Enagas, SOGAS
126	Quarstedt in-pipe	GDF, SOGAS
127	Nordlöhne	GDF, SOGAS
128	Steinitz	Enagas, SOGAS
129	Oberkappel Pentia West	Enagas, SOGAS
130	Weitendorf	SOGAS, ENI
131	Kittsee	Enagas, SOGAS
132	Liaison Nord Sud	Enagas, SOGAS
133	PR MIDI	TIGF
134	PR MIDI	TIGF