

THE EUROPEAN NATURAL GAS NETWORK

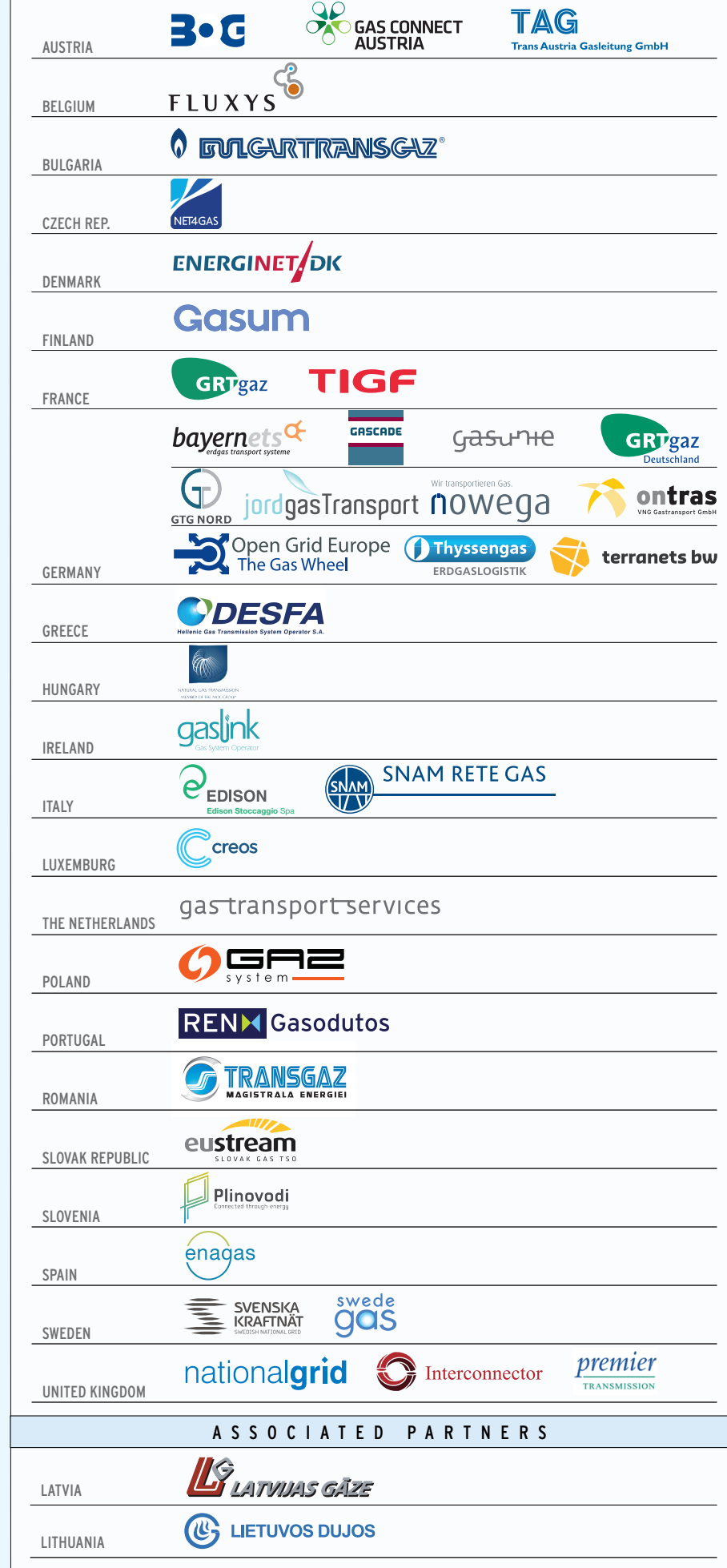
CAPACITIES AT CROSS-BORDER POINTS ON THE PRIMARY MARKET

All data relating to projects indicated on this map is based on ENTSOG TMAP 2016-2020 and Gas Regional Investment Plans (GRIPs) 2016-2020 / 2016-2020.
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.

Capacity data provided reflects situation at 1 July 2012.
Current capacity data can be found at www.gasroads.eu

ENTSOG currently comprises 39 members and 2 Associated Partners from 24 EU countries, and 3 Observers from 3 non-EU countries.

MEMBERS

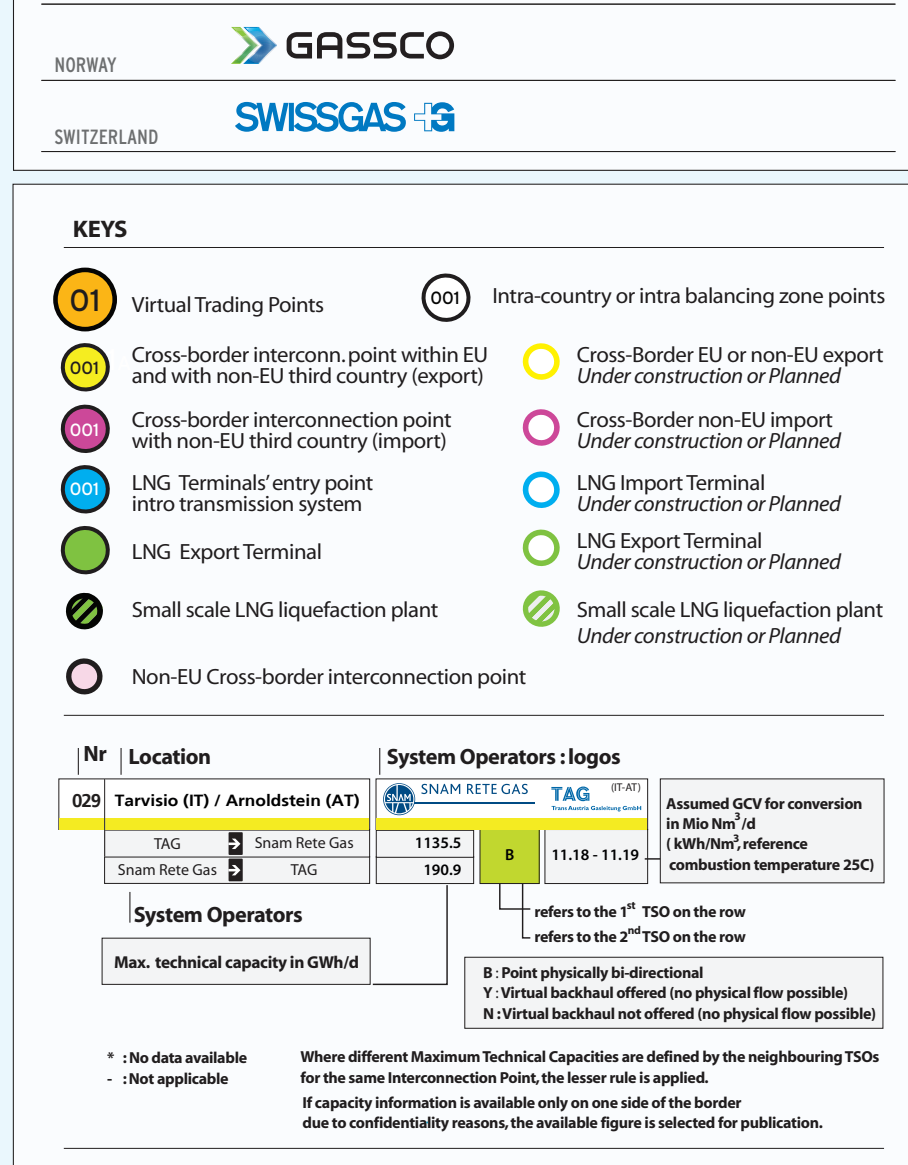


MEMBERS: Austria (E.ON, TAG), Belgium (Fluxys, Gasconnect), Bulgaria (Bulgartransgaz), Czech Rep. (Energinet/DK), Denmark (Energinet/DK), Finland (Gasum), France (GRTgaz, TIGF, bayernet, gasurhe, GRTgaz), Germany (Open Grid Europe, The Gas Wheel, MyGasgas, terranets bu), Greece (DESFA), Hungary (gaslink), Ireland (Edison, SNAM RETE GAS), Italy (Edison, SNAM RETE GAS), Luxembourg (CROOS), The Netherlands (gastransport services), Poland (Gaz-System, PGNiG), Portugal (REN Gasodutos), Romania (TRANSGAZ), Slovakia Republic (eustream), Slovenia (Plinovodi), Spain (enagas, SWENSKA KRAFTNÄT, IBERDROLA), Sweden (National Grid, Interconnector, premier), United Kingdom (National Grid).

ASSOCIATED PARTNERS: Latvia (LATVIJAS GAZE), Lithuania (LIETUVOS DUJOS).

OBSERVERS: Croatia (PUNACRO), Norway (GASSCO), Switzerland (SWISSGAS).

KEYS



Virtual Trading Points (Yellow circle)
Intra-country or intra balancing zone points (Green circle)
Cross-border interconnection point within EU and with non-EU third country (import) (Blue circle)
Cross-border interconnection point with non-EU third country (import) (Red circle)
Cross-border interconnection point with non-EU third country (export) (Orange circle)
Cross-border non-EU import under construction or planned (Light blue circle)
Cross-border non-EU export under construction or planned (Light orange circle)
LNG Terminal's entry point into transmission system (Blue square)
LNG Import Terminal under construction or planned (Light blue square)
LNG Export Terminal under construction or planned (Light orange square)
Small scale LNG liquefaction plant under construction or planned (Green square)
Non-EU Cross-border interconnection point (Red circle)

System Operators logos
No data available
* Data available
Where 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
ENTSO Member Countries (Green)
ENTSO Associated Partner (Light Green)
ENTSO Observers (Yellow)
Other Countries (Grey)

Gas Reserve areas
gas field
drilling platform

Gas storage facilities
LNG Peak Shaving
Acquifer
Salt cavity - cavern
Depleted (Gas) field on shore / offshore
Other type
Unknown

Transport by pipeline
under 24" (Blue line)
24" to 36" (Orange line)
36" and over (Red line)
project (Dashed line)

Transport by tanker
LNG route (Blue line)
LNG route project (Dashed blue line)

CROSS-BORDER INTERCONNECTION POINTS WITHIN EU

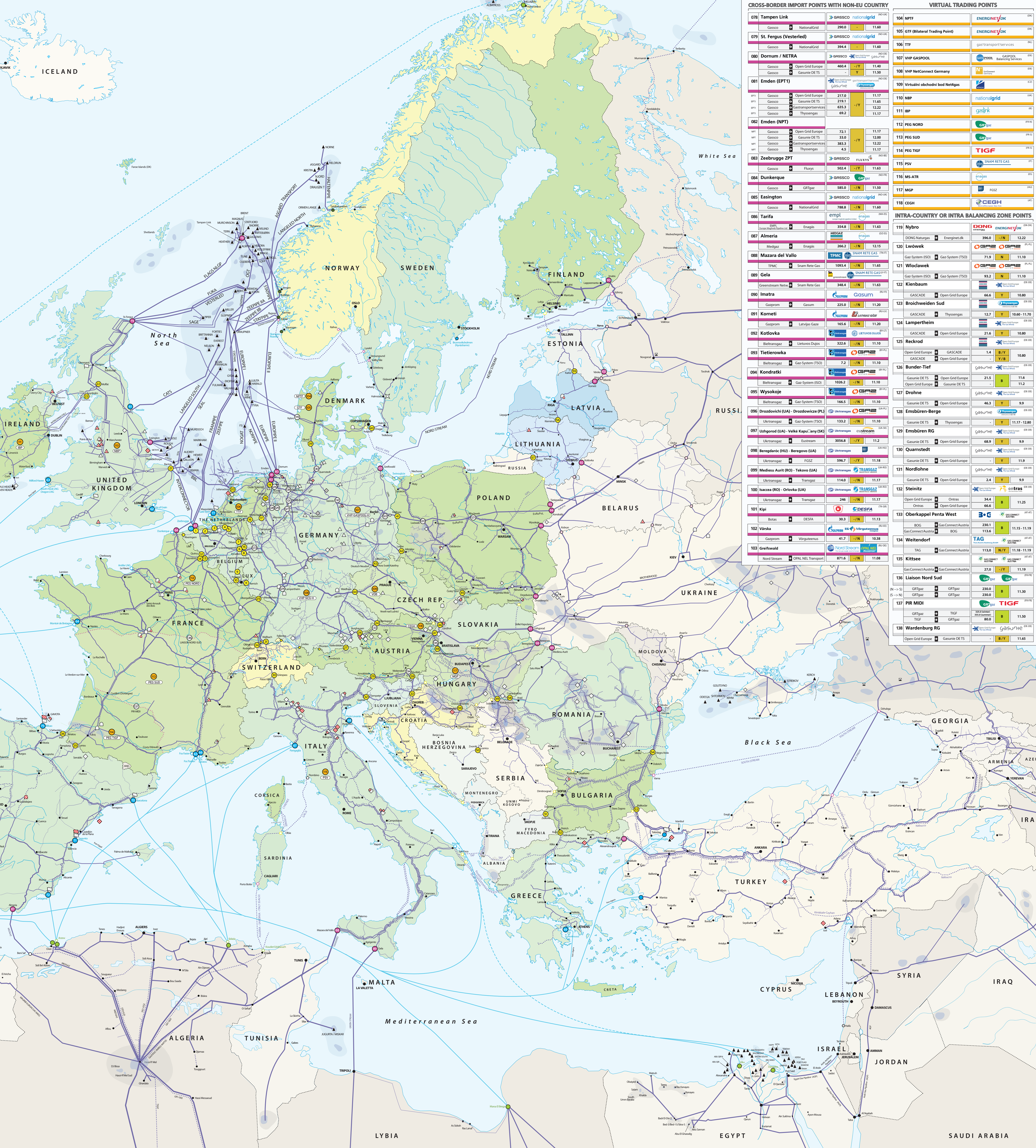
ID	Name	Country	Capacity (MW)	Status	System Operator
001	Zeebrugge IZT / HUB	Belgium	1152	Y	Fluxys
002	Zelzate	Belgium	1152	Y	Fluxys
003	Zandvliet H-gas	Netherlands	275	Y	Fluxys
004	Hilvarenbeek	Netherlands	568.5	Y	Fluxys
005	Zandvliet L-gas (NL) / Poppel (BE)	Netherlands	46.8	Y	Fluxys
006	L. Groenevoren (NL) / L. Groenevoren (BE)	Netherlands	296.5	Y	Fluxys
007	Stobich (NL) / Groenevoren (BE)	Netherlands	61.0	N/Y	Fluxys
008	Eynatten (BE) / Raeren (DE)	Belgium	188.8	Y	GAS
009	Bras	France	50.2	Y/N	CREOS
010	Petange	Luxembourg	26.7	Y/N	CREOS
011	Remich	Luxembourg	26.7	Y/N	CREOS
012	Blangisles Sigeus (BE) / Tancidères (FR)	Belgium	18.2	Y	GRTgaz
013	Blangisles Tancidères (FR)	France	18.2	Y	GRTgaz
014	Blangisles (BE) / Tancidères (FR)	Belgium	18.2	Y	GRTgaz
015	Bocholtz / Bocholtz-Vetschau (Thysseneng)	Germany	67.8	Y	Open Grid Europe
016	Zeevaar	Netherlands	275.2	Y/N	Fluxys
017	Winterswijk	Netherlands	197.5	Y	Fluxys
018	Vlieghuis	Netherlands	5.0	N	Fluxys
019	Bunde (DE) / Oude Statenvijk (NL)	Netherlands	71.3	Y	Fluxys
020	Julianadorp (GR) / Belgard (BG)	Greece	436.4	Y	DEFA
021	Bacton (BE) / UK	Belgium	423.6	Y	National Grid
022	Muffat	Austria	342.4	Y	gaslink
023	Twyholm	UK	89.3	N	gaslink
024	Oberkappel	Austria	54.3	Y	BOG
025	Mudersheim (DE) / Oberbachbach (FR)	Germany	13.2	Y	BOG
026	Oberacker (AT) / Burghausen (DE)	Austria	428.8	Y	BOG
027	Kiefersfelden	Austria	228.8	Y	BOG
028	Murfeld (AT) / Carjak (SI)	Austria	113.5	Y	BOG
029	Tarvisio (IT) / Arnoldstein (AT)	Austria	196.5	Y	BOG
030	Griespass (CH) / Passo Gries (IT)	Switzerland	118.8	Y	BOG
031	Walbach	Switzerland	186.7	Y	BOG
032	Garfield (IT) / Comperio (CH)	Switzerland	27.9	Y	BOG
033	Roggen	Switzerland	53.3	Y/N	BOG
034	Ohligweg (FR) / Rodersdorf (CH)	Switzerland	22.0	Y	BOG
035	Larraz	Spain	100.0	Y	TIGF

CROSS-BORDER IMPORT POINTS WITH NON-EU COUNTRY

ID	Name	Country	Capacity (MW)	Status	System Operator
070	Tampen Link	Norway	200.0	Y	Norwegian Energy
071	St. Fergus (Vesterled)	Ireland	394.4	Y	Norwegian Energy
080	Dornum / NETRA	Denmark	460.4	Y	Norwegian Energy
081	Emden (EPT)	Germany	213.1	Y	Norwegian Energy
082	Emden (NPT)	Germany	213.1	Y	Norwegian Energy
083	Zoffen	Germany	213.1	Y	Norwegian Energy
084	Dunkerque	France	52.4	Y	Norwegian Energy
085	Easington	UK	298.8	Y	Norwegian Energy
086	Tarifa	Spain	344.8	Y	Norwegian Energy
087	Almeria	Spain	264.2	Y	Norwegian Energy
088	Mazara del Vallo	Italy	109.4	Y	Norwegian Energy
089	Gela	Italy	344.4	Y	Norwegian Energy
090	Inmtra	Italy	228.0	Y	Norwegian Energy
091	Korneti	Albania	165.6	Y	Norwegian Energy
092	Kotlovka	Bulgaria	322.4	Y	Norwegian Energy
093	Tietterowka	Poland	100.2	Y	Norwegian Energy
094	Kondraki	Poland	166.5	Y	Norwegian Energy
095	Wysockie	Poland	133.2	Y	Norwegian Energy
096	Drozdowich (UA) - Drozdowich (PL)	Poland	133.2	Y	Norwegian Energy
097	Luhovod (UA) - Vuka Kapu Jany (SK)	Slovakia	305.8	Y	Norwegian Energy
098	Beregovo (HU) - Beregovo (UA)	Hungary	596.7	Y	Norwegian Energy
099	Medusa Aurit (RO) - Takovo (UA)	Romania	114.0	Y	Norwegian Energy
100	Iscova (RO) - Orlovka (UA)	Romania	246	Y	Norwegian Energy
101	Kipi	Bulgaria	50.3	Y	Norwegian Energy
102	Vaska	Bulgaria	41.7	Y	Norwegian Energy
103	Gretwald	Germany	871.6	Y	Norwegian Energy

LNG TERMINALS' ENTRY POINTS INTO TRANSMISSION SYSTEM

ID	Name	Country	Capacity (MW)	Status	System Operator
060	Zeebrugge LNG	Belgium	474.9	Y	Fluxys
061	Tesside	Italy	127.6	Y	National Grid
062	Isle of Grain	UK	699.7	Y	National Grid
063	Milford Haven	UK	950.0	Y	National Grid
064	Montoir de Bretagne	France	370.0	Y	BOG
065	Fos Tonkin - Fos Cavaou	France	410.0	Y	BOG
066	Camprague (Porto Levante / Adaptic LNG)	France	290.2	Y	BOG
068	Reyhoussa	France	193.3	Y	BOG
070	Barcelona	Spain	344.3	Y	BOG
071	Sagunto	Spain	278.1	Y	BOG
072	Cartagena	Spain	376.8	Y	BOG
073	Huelva	Spain	376.8	Y	BOG
074	Mugardos	Spain	115.2	Y	BOG
075	Bilbao	Spain	223.3	Y	BOG
076	Sines	Portugal	212.8	Y	BOG
077	Gate Terminal	UK	407.6	Y	BOG



VIRTUAL TRADING POINTS

ID	Name	Country	Capacity (MW)	Status	System Operator
104	WFF	UK	396.0	Y	ENERGINET
105	GTI (Bilateral Trading Point)	UK	396.0	Y	ENERGINET
106	TFP	UK	396.0	Y	ENERGINET
107	VIP GASPOOL	UK	396.0	Y	ENERGINET
108	VIP NetConnect Germany	Germany	396.0	Y	ENERGINET
109	Virtualni obchodni bod NetGas	Czech Rep.	396.0	Y	ENERGINET
110	MBP	UK	396.0	Y	ENERGINET
111	BP	UK	396.0	Y	ENERGINET
112	PEG NORD	Germany	396.0	Y	ENERGINET
113	PEG SUD	Germany	396.0	Y	ENERGINET
114	PEG NEF	Germany	396.0	Y	ENERGINET
115	PSV	Germany	396.0	Y	ENERGINET
116	MS-ATR	Germany	396.0	Y	ENERGINET
117	MBP	UK	396.0	Y	ENERGINET
118	CEGH	Poland	396.0	Y	ENERGINET
119	Hydro	UK	396.0	Y	ENERGINET
120	Lilowek	UK	396.0	Y	ENERGINET
121	Wlodawek	UK	396.0	Y	ENERGINET
122	Kienbaum	Germany	396.0	Y	ENERGINET
123	Broichweiden Sud	Germany	396.0	Y	ENERGINET
124	Lampertheim	Germany	396.0	Y	ENERGINET
125	Reckrod	Germany	396.0	Y	ENERGINET
126	Bunder-Tief	Germany	396.0	Y	ENERGINET
127	Drohne	Germany	396.0	Y	ENERGINET
128	Embsören-Berge	Germany	396.0	Y	ENERGINET
129	Embsören-RG	Germany	396.0	Y	ENERGINET
130	Quarstedt	Germany	396.0	Y	ENERGINET
131	Nordlohe	Germany	396.0	Y	ENERGINET
132	Steinitz	Germany	396.0	Y	ENERGINET
133	Oberkappel Penta West	Germany	396.0	Y	ENERGINET
134	Weitendorf	Germany	396.0	Y	ENERGINET
135	Kitsee	Germany	396.0	Y	ENERGINET
136	Liaison Nord Sud	Germany	396.0	Y	ENERGINET
137	PIR MIDT	Germany	396.0	Y	ENERGINET
138	Wardenburg RG	Germany	396.0	Y	ENERGINET

INTRA-COUNTRY OR INTRA BALANCING ZONE POINTS

ID	Name	Country	Capacity (MW)	Status	System Operator
001	WFF	UK	396.0	Y	ENERGINET
002	TFP	UK	396.0	Y	ENERGINET
003	VIP GASPOOL	UK	396.0	Y	ENERGINET
004	VIP NetConnect Germany	Germany	396.0	Y	ENERGINET
005	Virtualni obchodni bod NetGas	Czech Rep.	396.0	Y	ENERGINET
006	MBP	UK	396.0	Y	ENERGINET
007	BP	UK	396.0	Y	ENERGINET
008	PEG NORD	Germany	396.0	Y	ENERGINET
009	PEG SUD	Germany	396.0	Y	ENERGINET
010	PEG NEF	Germany	396.0	Y	ENERGINET
011	PSV	Germany	396.0	Y	ENERGINET
012	MS-ATR	Germany	396.0	Y	ENERGINET
013	MBP	UK	396.0	Y	ENERGINET
014	CEGH	Poland	396.0	Y	ENERGINET
015	Hydro	UK	396.0	Y	ENERGINET
016	Lilowek	UK	396.0	Y	ENERGINET
017	Wlodawek	UK	396.0	Y	ENERGINET
018	Kienbaum	Germany	396.0	Y	ENERGINET
019	Broichweiden Sud	Germany	396.0	Y	ENERGINET
020	Lampertheim	Germany	396.0	Y	ENERGINET
021	Reckrod	Germany	396.0	Y	ENERGINET
022	Bunder-Tief	Germany	396.0	Y	ENERGINET
023	Drohne	Germany	396.0	Y	ENERGINET
024	Embsören-Berge	Germany	396.0	Y	ENERGINET
025	Embsören-RG	Germany	396.0	Y	ENERGINET
026	Quarstedt	Germany	396.0	Y	ENERGINET
027	Nordlohe	Germany	396.0	Y	ENERGINET
028	Steinitz	Germany	396.0	Y	ENERGINET
029	Oberkappel Penta West	Germany	396.0	Y	ENERGINET
030	Weitendorf	Germany	396.0	Y	ENERGINET
031	Kitsee	Germany	396.0	Y	ENERGINET
032	Liaison Nord Sud	Germany	396.0	Y	ENERGINET
033	PIR MIDT	Germany	396.0	Y	ENERGINET
034	Wardenburg RG	Germany	396.0	Y	ENERGINET