SYSTEM DEVELOPMENT MAP
2018 / 2019

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The System Development Map 2018 / 2019 presents existing infrastructure & capacity and planned infrastructure from the perspective of the year 2019.

The layout is based on the CAPMAP 2019 unless respective ENTSOG members provided update. Data presented in capacity matrix was extracted from Transparency Platform (with application of the 'Lesser of' Rule), then amended and approved by TSOs on 13 December 2019.

The 2018 / 2019 historical data on demand & supply are presented aggregated in form of charts (covering summer and following winter to allow investigate gas storage usage). Values were taken from the respective Summer and Winter Review Report. Information regarding gas storage fill rate was taken from GIE AGSI+.

The Country Profiles includes demand data represent actual country demand for the respective days/periods, storage & LNG capacities according to the interconnection to the country's transmission system and installed gas-fired power generation capacity (additional data sources: GSE 2018 Storage Map (including necessary updates), GLE 2019 LNG Map and ENTSO-E Statistical Factsheet). The gas production reflects the maximum deliverability achieved.

All data provided in the map are for information purposes and shall be treated as indicative only.
Under no circumstances shall they be regarded as data for commercial use.

Import & Transmission Capacity
2019 (GWh/d)

(Values submitted by TSO from Transparency Platform-the lowest value between the values submitted by cross border TSOs)

Key
DEg — market area GASPOOL
DEn — market area Net Connect Germany

Import Capacities

TO \ FROM	DZ	LNG	LY	NO	RU	TR	
AT							0
BE		288		488			776
BG							0
CH							0
CZ							0
DEg				511	1.792		2.303
DEn				729			729
DK							0
EE					36		36
ES	732	1.911					2.642
FI					220		220
FR		1.087		570			1.657
GR		204				49	253
HR							0
HU					517		517
IE							0
IT	1.150	602	440				2.192
LT		122			325		447
LU							0
LV					179		179
MD							0
MK							0
NL		385		963			1.348
PL		158			1.336		1.494
PT		200					200
RO					1.114		1.114
RS							0
RU							0
SE							0
SI							0
SK					2.028		2.028
SM							0
TR							0
UA							0
UK		1.671		1.499			3.170
Total	1.882	6.628	440	4.760	7.547	49	

Cross-Border Capacities

TO \ FROM	AT	BE	BG	CH	CZ	DEg	DEn	DK	EE	ES	FI	FR	GR	HR	HU	IE	IT	LT	LU	LV	MD	MK	NL	PL	PT	RO	RS	RU	SE	SI	SK	SM	TR	UA	UK	
AT						360											193														1.570					2.123
BE						132	268					270											1.437												652	2.759
BG													47													731										778
CH						318						223					441																			969
CZ					1.407																										400					1.807
DEg			130			335	57	87															332	933												1.873
DEn	390	160		173	907	442		4															1.117													3.193
DK						101	23																													124
EE																				168																168
ES												165													80											245
FI																																				0
FR		850		100			605			224																										1.779
GR			117																																	117
HR															78															54						132
HU	153																									3					127			517		800
IE																																			387	387
IT	1.149			635																										21						1.806
LT																				65																65
LU		49					38																													87
LV																	68																			68
MD																										1										1
MK			20																																	20
NL		394				341	162																													897
PL					28	234																														262
PT										144																										144
RO			8												52																					60
RS															142																					142
RU																	114																			114
SE								81																												81
SI	113													8			28																			149
SK	247				914																													250		1.410
SM																	4																			4
TR			477																																	477
UA																															416					416
UK		803																					494													803
	2.051	2.386	622	908	2.184	2.057	1.831	172	0	368	0	658	47	8	272	0	666	182	0	233	0	0	2.886	933	80	735	0	0	0	75	2.514	0	0	767	1.039	

KEYS

Countries
- ENTSOG Member Countries
- ENTSOG Associated Partner
- ENTSOG Observers
- Other Countries

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

Gas Reserve areas
- gas field
- drilling platform

Gas storage facilities
- Acquifer
- Salt cavity - cavern
- Depleted (Gas) field on shore / offshore
- Other type
- Unknown
- Gas storage projects
- Etzel* — multiple storage facilities operated by different SSOs

Map points
- Trading Points / Market Areas
- Intra-country or intra balancing zone points
- Cross-border interconnection point within Europe or export point to non-EU country
- Cross-border interconnection point with third country (import)
- LNG Terminal/ entry point intro transmission system
- LNG Export Terminal
- Virtual Point
- Small scale LNG liquefaction facilities
- Third country cross-border interconnection point
- Cross-Border Europe *Under construction or Planned*
- Cross-Border third country import/export *Under construction or Planned*
- LNG Import Terminal *Under construction or Planned*
- LNG Export Terminal *Under construction or Planned*
- Small scale LNG liquefaction facilities *Under construction or Planned*

Data keys
- NATIONAL PRODUCTION
- RUSSIA
- NORWAY
- ALGERIA
- LIBYA
- UGS
- LNG

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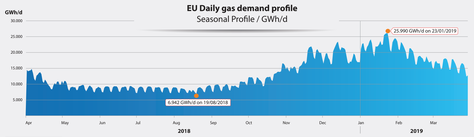
DEMAND

EUROPEAN DEMAND

EU Total 2018 4.986.841 GWh

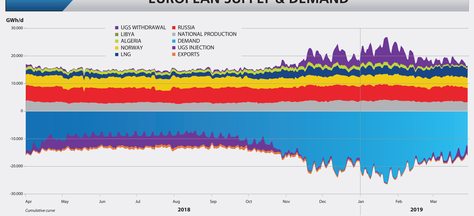
EU Apr 2018 - Sep 2018	(Summer)	1.672.864 GWh	**EU Oct 2018 - Mar 2019**	(Winter)	3.220.596 GWh
EU Min. Day	(19/08/2018)	6.942 GWh/d	**EU Max. Day**	(23/01/2019)	25.990 GWh/d

EU Daily gas demand profile
Seasonal Profile / GWh/d

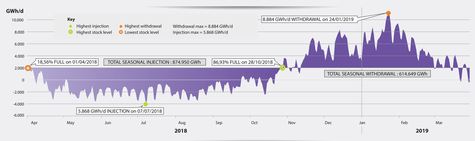


SUPPLY

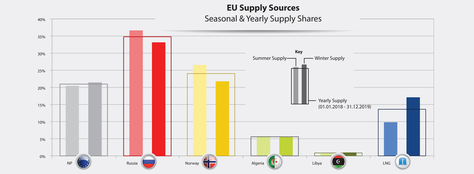
EUROPEAN SUPPLY & DEMAND



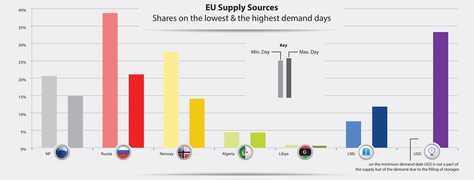
EU Storage / Injection / Withdrawal
Seasonal Profile / GWh/d



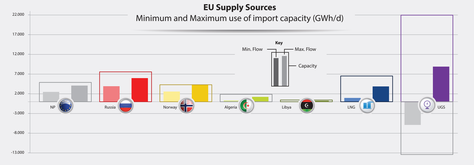
EU Supply Sources
Seasonal & Yearly Supply Shares

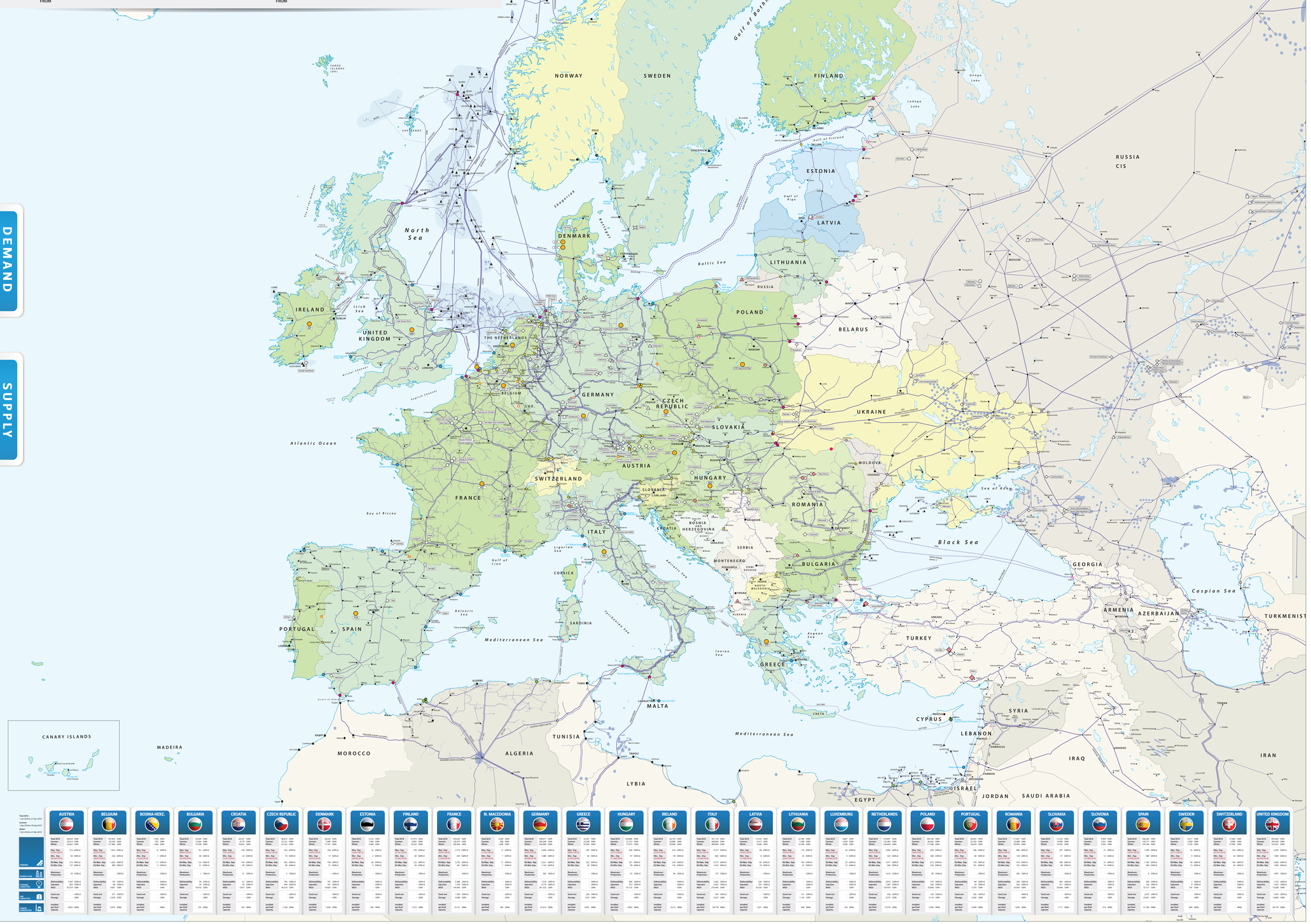


EU Supply Sources
Shares on the lowest & the highest demand days



EU Supply Sources
Minimum and Maximum use of import capacity (GWh/d)




Norwegian Sea
Pechora Sea
Kolguyev Island
Pomorsky Strait
Kanin Peninsula
Kola Peninsula
White Sea
Gulf of Bothnia
NORWAY
SWEDEN
FINLAND
ESTONIA
LATVIA
LITHUANIA
RUSSIA
CIS
North Sea
DENMARK
Baltic Sea
IRELAND
UNITED KINGDOM
Irish Sea
THE NETHERLANDS
BELGIUM
LUX.
GERMANY
POLAND
BELARUS
UKRAINE
CZECH REPUBLIC
SLOVAKIA
AUSTRIA
HUNGARY
SWITZERLAND
FRANCE
ITALY
ROMANIA
MOLDOVA
Black Sea
Sea of Azov
BULGARIA
SERBIA
GREECE
TURKEY
GEORGIA
ARMENIA
AZERBAIJAN
Caspian Sea
TURKMENIST
IRAN
Atlantic Ocean
Bay of Biscay
PORTUGAL
SPAIN
Mediterranean Sea
CORSICA
SARDINIA
MALTA
CYPRUS
SYRIA
LEBANON
IRAQ
ISRAEL
JORDAN
SAUDI ARABIA
EGYPT
LIBYA
TUNISIA
ALGERIA
MOROCCO
CANARY ISLANDS
MADEIRA
Ladoga Lake
Onega Lake
MOSCOW
STOCKHOLM
OSLO
HELSINKI
TALLINN
RIGA
VILNIUS
MINSK
WARSAW
BERLIN
PRAGUE
VIENNA
BUDAPEST
BRATISLAVA
BUCHAREST
SOFIA
ATHENS
ANKARA
TEHRAN
AMMAN
DAMASCUS
BAGDAD
CAIRO
ALGIERS
TUNIS
TRIPOLI
LONDON
DUBLIN
AMSTERDAM
BRUSSELS
PARIS
MADRID
LISBON
ROME
BERNE
ZAGREB
SARAJEVO
BELGRADE
TIRANA
SKOPJE
ATHENS
NICOSIA
Gulf of Finland
Gulf of Riga
Skagerrak
Kattegat
Ionian Sea
Aegean Sea
Adriatic Sea
Ligurian Sea
Gulf of Lion
Balearic Sea
Tyrrhenian Sea
Irish Sea
Celtic Sea
Bay of Biscay
Strait of Gibraltar
Strait of Sicilia
Strait of Hormuz
Caspian Sea
Sea of Azov
Black Sea
Mediterranean Sea
Baltic Sea
Norwegian Sea
Atlantic Ocean
Pechora Sea
Barents Sea
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