

INV031-10

TYNDP 2011-2020, Annex B: Country Profile Questionnaires

The following Country Profiles provide a factual overview of the existing gas infrastructures in each of the countries covered as at 1 October 2010.

Most of the information was supplied by the respective TSOs. The total generation capacity of gas-fired power plants of each country is based on the Euroelectric Statistics Report 2010 if not indicated otherwise.

Please note that no references are made to the legal form of the given system operators except in the TSO profiles.


Austria




Existing Gas Infrastructure	
Number of TSOs	3
Total length of transmission network(s)	approx. 1,600 km
Total compressor power	551 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
OMV Gas	<ul style="list-style-type: none"> ○ Baumgarten / Eustream (SK) ○ Mosonmagyaróvár / FGSZ (HU) ○ Petržalka / SPP Distribution (SK) ○ Murfeld / Geoplin plinovodi (SI) ○ Überackern / Bayernets (DE) ○ Überackern / Wingas Transport (DE)
BOG	<ul style="list-style-type: none"> ○ Oberkappel / Open Grid Europe (DE)


	<ul style="list-style-type: none"> ○ Oberkappel / GRTgaz (DE) ○ Baumgarten / Eustream (SK)
Trans Austria Gasleitung	<ul style="list-style-type: none"> ○ Baumgarten / Eustream (SK) ○ Tarvisio-Arnoldstein / Snam Rete Gas (IT)
LNG terminals	
	<ul style="list-style-type: none"> ○ N/A
Storage facilities	
<p>Interconnected DSs</p> <p><i>(All storage facilities are connected to the DSO network (except Haidach, which is connected to German networks). Domestic market capacity is managed by Austrian Gas Grid Management AG (AGGM) in its function as Manager of the Control Area East.)</i></p>	<ul style="list-style-type: none"> ○ Schönkirchen Reyersdorf / OMV Gas ○ Tallesbrunn / OMV Gas ○ Thann / OMV Gas ○ Puchkirchen / RAG ○ Haidach 5 / RAG ○ Haidach / RAG/Wingas/Gazprom Export
Production facilities	
<p>Interconnected DSs</p> <p><i>(All production facilities are connected to the DSO network.)</i></p>	<ul style="list-style-type: none"> ○ 1 virtual entry point from OMV Austria Exploration & Production ○ 1 virtual entry point from RAG
Directly connected customers	
	<ul style="list-style-type: none"> ○ Total: 0 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 0
Total gas-fired generation power	<ul style="list-style-type: none"> ○ N/A
Distribution systems SOs and total number of DSOs in the country	
OMV Gas	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 1 ○ Number of DSOs: 1
BOG	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 6 ○ Number of DSOs: 1

Trans Austria Gasleitung	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 10 ○ Number of DSOs: 1
Physical hubs and Virtual Trading Points	<ul style="list-style-type: none"> ○ CEGH / CEGH
Number of balancing zones	7
Demand	
Historical annual gas demand of the national market (final customers) as published by the Austrian regulator on their website (www.e-control.at) including Control Area East, Control Area Tyrol and Control Area Vorarlberg.	<ul style="list-style-type: none"> ○ 2009: 91,542 GWh ○ 2008: 93,228 GWh ○ 2007: 88,418 GWh

OMV Gas GmbH 	
Website	www.omv.com
Current Publications	N/A
Total length of the transmission network	170 km Operated: approx. 1,600 km
Total compressor power in the marketed transmission network	0 MW
Total transported energy (in gas) in 2009 in the marketed transmission network	78,301 GWh

BOG GmbH 	
Website:	www.bog-gmbh.at

Current Publications	
Total length of the transmission network	285 km
Total compressor power	121 MW
Total transported energy (in gas) in 2009	113,000 GWh


Trans Austria Gasleitung GmbH 	
Website	www.taggmbh.at
Current Publications	N/A
Total length of the transmission network	approx. 1,140 km
Total compressor power	approx. 430 MW
Total transported energy (in gas) in 2009	278,672 GWh

Belgium



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	3900 km
Total compressor power	116 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Fluxys	<ul style="list-style-type: none"> ○ Zeebrugge IZT/HUB / (UK) / (IUK) ○ Zeebrugge ZPT / Gassco (NO) ○ Zelzate / GTS (NL) ○ Zelzate / Zebra (NL) ○ Zandvliet H-gas / GTS (NL) ○ Hilvarenbeek (Poppel+Zandvliet L-gas) / GTS (NL) ○ Gravenvoeren (incl Dilsen) / GTS (NL) ○ Eynatten 1 / Wingas Transport (DE)

	<ul style="list-style-type: none"> ○ Eynatten 2 / Open Grid Europe (DE) ○ Bras / Creos (LU) ○ Pétange / Creos (LU) ○ Blaregnies Segeo / Grtgaz (FR) ○ Blaregnies Troll / Grtgaz (FR) ○ Blaregnies L / Grtgaz (FR)
LNG terminals	
Fluxys	<ul style="list-style-type: none"> ○ Zeebrugge LNG Terminal / Fluxys LNG
Storage facilities	
Fluxys	<ul style="list-style-type: none"> ○ Loenhout / Fluxys
Production facilities	
	<ul style="list-style-type: none"> ○ N/A
Directly connected customers	
Fluxys	<ul style="list-style-type: none"> ○ Total: 235 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 24
Total gas-fired generation power	<ul style="list-style-type: none"> ○ 7,486 MW
Distribution systems SOs and total number of DSOs in the country	
Fluxys	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 200 ○ Number of DSOs: 18
Physical hubs and Virtual Trading Points	<ul style="list-style-type: none"> ○ Zeebrugge HUB / Huberator
Number of balancing zones	3 HCG + 1 LCG
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 194,152 GWh ○ 2008: 190,920 GWh ○ 2007: 189,291 GWh


<p>Fluxys N.V./S.A. <i>Naamloze Vennootschap /Société Anonyme</i> <i>(Limited Liability Company)</i></p> <div style="text-align: right;">  FLUXYS <small>EXCELLENCE IN GAS TRANSPORT</small> </div>	
Website	www.fluxys.com
Current Publications	<ul style="list-style-type: none"> ○ 10-year Network Development Plan (voluntary will be published in December 2010)
Total length of the transmission network	3900 km
Total compressor power	116 MW
Total transported energy (in gas) in 2009	463,120 GWh

Bulgaria



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	2,645 km
Total compressor power	Transmission: 263 MW Storage: 10 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Bulgartransgaz	<ul style="list-style-type: none"> ○ Negru Voda I & II / Transgaz (RO) ○ Kula/Sidirokastron / DESFA (GR) ○ Malkoclar / BOTAS (TK) ○ Zidilovo / Makpetrol (MK)

LNG terminals	
N/A	○ N/A
Storage facilities	
Bulgartransgaz	UGS Chiren / Bulgartransgaz
Directly connected customers	
Bulgartransgaz	<ul style="list-style-type: none"> ○ Total: 17 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 0
Total gas-fired generation power	○ 580 MW
Distribution systems and total number of DSOs in the country	
Bulgartransgaz	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 65 ○ Number of DSOs: 17
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 28,182 GWh ○ 2008: 36,782 GWh ○ 2007: 37,818 GWh

Bulgartransgaz EAD <i>(A single member joint-stock company)</i>		
Website	www.bulgartransgaz.bg	
Current Publications	N/A	
Total length of the transmission network	2,645 km	
Total compressor power	Transmission: 263 MW	

	Storage: 10 MW
Total transported energy (in gas) in 2009	155,417 GWh

Croatia




Existing Gas Infrastructure

Number of TSOs	1
Total length of transmission network(s)	2,184 km
Total compressor power	N/A

Inter-TSO connections where capacity is marketed (incl. upstream operators)

Plinacro	○ Rogatec / Geoplin plinovodi
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LNG terminals	
	○ N/A
Storage facilities	
Plinacro	○ Podzemno Skladište Plina
Interconnected DSs	○ N/A
Production facilities	
Plinacro	<ul style="list-style-type: none"> ○ CPS Molve/Đurđevac /INA ○ CPS Etan/Ivanić- Grad/ INA ○ offshore platforms/Pula terminal/ INA
Directly connected customers	
Plinacro	<ul style="list-style-type: none"> ○ Total: 27 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 5
Total gas-fired generation power	○ N/A
Distribution systems SOs and total number of DSOs in the country	
PLINACRO	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 151 ○ Number of DSOs: 37
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 29,135 GWh ○ 2008: 33,000 GWh ○ 2007: 33,311 GWh

PLINACRO d.o.o. <i>d.o.o. = Limited Liability Company</i>		 <small>OPERATOR PLINSKOGA TRANSPORTNOG SUSTAVA</small>
Website		www.plinacro.hr
Current Publications		5-year Network Development Plan
Total length of the transmission network		2,184 km
Total compressor power		N/A
Total transported energy (in gas) in 2009		33,941 GWh


Czech Republic



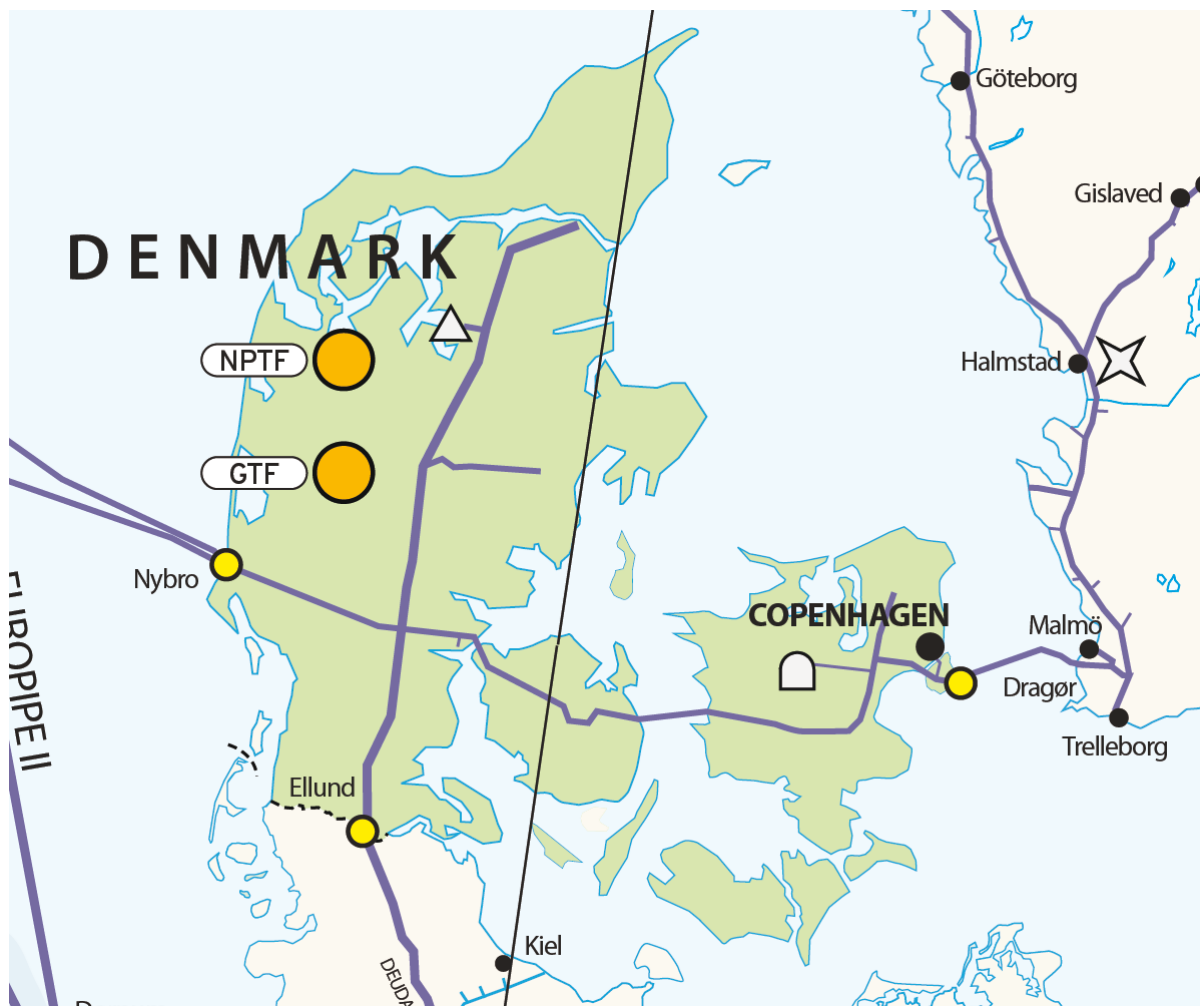
Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	3,643 km
Total compressor power	297 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
NET4GAS	<ul style="list-style-type: none"> ○ Lanžhot / Eustream, a. s. (SK) ○ Hora Svate Kateřiny – Sayda / Ontras – VNG Gastransport (DE)

	<ul style="list-style-type: none"> ○ Hora Svaté Kateřiny – Olbernhau / Wingas Transport (DE) ○ Waidhaus / Megal (DE) ○ Waidhaus / Open Grid Europe (DE)
LNG terminals	
	<ul style="list-style-type: none"> ○ N/A
Storage facilities	
NET4GAS	<ul style="list-style-type: none"> ○ Háje / RWE Gas Storage ○ Dolní Dunajovice / RWE Gas Storage ○ Lobodice / RWE Gas Storage ○ Štramberk / RWE Gas Storage ○ Třanovice / RWE Gas Storage ○ Tvrdonice / RWE Gas Storage ○ Uhřetice / MND Gas Storage
RWE GasNet JMP Net SMP Net	<ul style="list-style-type: none"> ○ Háje / RWE Gas Storage ○ Lobodice / RWE Gas Storage ○ Lobodice / RWE Gas Storage ○ Štramberk / RWE Gas Storage ○ Třanovice / RWE Gas Storage
Production facilities	
JMP Net	<ul style="list-style-type: none"> ○ 1 virtual entry / Moravské naftové doly
Directly connected customers	
NET4GAS	<ul style="list-style-type: none"> ○ Total: 7 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 0
Total gas-fired generation power	<ul style="list-style-type: none"> ○ 342 MW
Distribution systems SOs and total number of DSOs in the country	
NET4GAS	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 78

	<ul style="list-style-type: none"> ○ Number of DSOs: 6
Physical hubs and Virtual Trading Points	<ul style="list-style-type: none"> ○ Virtual Trading Point is operated by OTE
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 86,216 GWh ○ 2008: 91,673 GWh ○ 2007: 91,290 GWh

NET4GAS, s.r.o. <i>(s.r.o. = společnost s ručením omezeným ≈ Limited Liability Company)</i>		
Website	www.net4gas.cz	
Current Publications	<ul style="list-style-type: none"> ○ 10-year Network Development Plan (voluntary, under preparation) 	
Total length of the transmission network	3,643 km	
Total compressor power	297 MW	
Total transported energy (in gas) in 2009	346,458 GWh	

Denmark



Existing Gas Infrastructure


Number of TSOs	1
Total length of transmission network(s)	800 km
Total compressor power	0 MW

Inter-TSO connections where capacity is marketed (incl. upstream operators)

Energinet.dk	<ul style="list-style-type: none"> ○ Dragør / Swedegas, Svenske Kraftnet (SE) ○ Ellund / Gasunie Deutschland, Open Grid Europe (DE) ○ Nybro / Dong Energy (national upstream; offshore)
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	(DK)
LNG terminals	
Energinet.dk	○ N/A
Storage facilities*	
Energinet.dk	<ul style="list-style-type: none"> ○ Lille Torup, Northern Jutland / Energinet.dk Gaslager ○ Stenlille gaslager / DONG Gas Distribution & Storage
Production facilities	
Energinet.dk	<ul style="list-style-type: none"> ○ Danish North Sea producers are: 5 ○ A.P. Møller Mærsk, ○ DONG, ○ Altinex, ○ Wintershall, ○ PA Resources, Hess,
Directly connected customers	
Energinet.dk	<ul style="list-style-type: none"> ○ Total: 3 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 3
Total gas-fired generation power	○ 3,600 MW
Distribution systems SOs and total number of DSOs in the country	
Energinet.dk	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 42 MSs ○ Number of DSOs: 5 <ul style="list-style-type: none"> ▪ HMN, ▪ Dong Energy ▪ Naturgas Fyn ▪ Københavns Energi ▪ Ålborg
Physical hubs and Virtual Trading Points	<ul style="list-style-type: none"> ○ Gas Transfer Facility ○ Nord Pool Gas Facility/Nord Pool

	<ul style="list-style-type: none"> ○ Link4Hubs/Energinet.dk, Gasunie
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 46,300 GWh ○ 2008: 49,200 GWh ○ 2007: 48,700 GWh

Energinet.dk <i>An independent public enterprise</i>		
Website	www.energinet.dk	
Current Publications	<ul style="list-style-type: none"> ○ Gas In Denmark, Plan for security of natural gas supply 2009 (http://www.e-pages.dk/energinet/168/) (mandatory) ○ Winter Outlook included in above ○ Summer Outlook not published 	
Total length of the transmission network	800 km	
Total compressor power	0 MW	
Total transported energy (in gas) in 2009	69,600 GWh	

Estonia



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	877 km
Total compressor power	0 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
EG Vörguteenus	<ul style="list-style-type: none"> ○ JSC Latvian Gas , Karki IP (LT) ○ OOO Gazprom transgaz Saint-Petersburg , Värskä and Narva IP (RU)
LNG terminals	
N/A	○ N/A

Storage facilities	
N/A	○ N/A
Interconnected DSs	○ N/A
Production facilities	
N/A	○ N/A
Directly connected customers	
EG Vörguteenus	<ul style="list-style-type: none"> ○ Total: 8 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 2
Total gas-fired generation power	○ 206 MW
Distribution systems SOs and total number of DSOs in the country	
AS EG Vörguteenus	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 42 ○ Number of DSOs: 5
25 DSOs	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 5 ○ Number of DSOs: 25
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 6,130 GWh ○ 2008: 9,030 GWh ○ 2007: 9,440 GWh


AS EG Võrguteenus JSC – joint stock company		
Website	www.egvorguteenus.ee	
Current Publications	○ N/A	
Total length of the transmission network	2300 km	
Total compressor power	0 MW	
Total transported energy (in gas) in 2009	6.130 GWh	

Finland

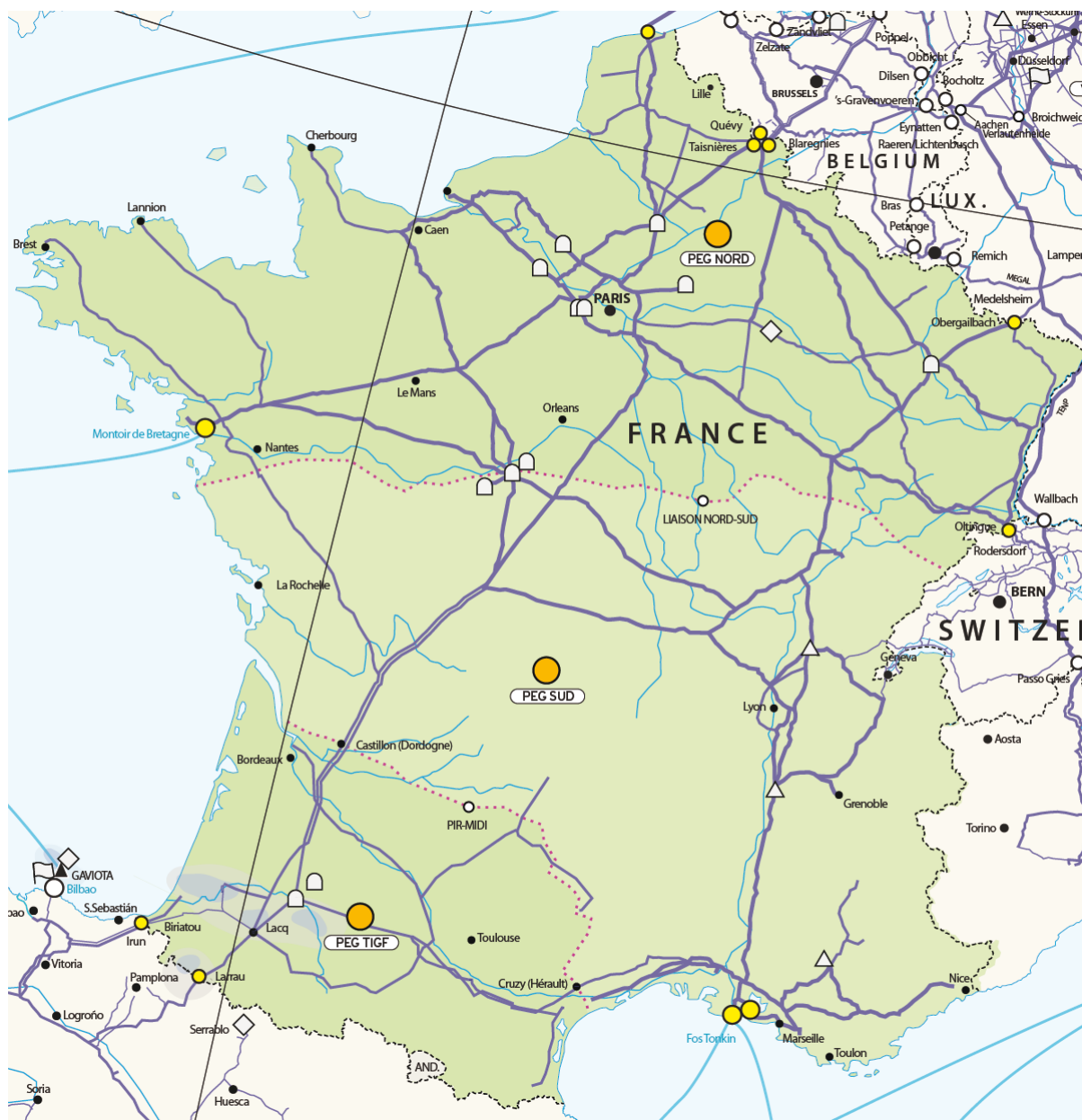


Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	1,186 km
Total compressor power	63 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Gasum	○ Imatra / Gazprom (RU)
LNG terminals	
	○ N/A
Storage facilities*	
	○ N/A
Interconnected DSs	○ N/A

Production facilities	
	○ N/A
Directly connected customers	
Gasum	<ul style="list-style-type: none"> ○ Total: 205 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 41
Total gas-fired power generation	2,370 MW (<i>Source: Gasum</i>)
Distribution systems SOs and total number of DSOs in the country / ASÄ	
Gasum	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 89 ○ Number of DSOs: 18
Physical hubs and Virtual Trading Points	○ Kaasupörssi / Gasum
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 40,643 GWh ○ 2008: 44,966 GWh ○ 2007: 43,402 GWh

GASUM Oy (Oy = Limited liability company)		
Website	http://www.gasum.fi	
Current Publications	○ None	
Total length of the transmission network	1,186 km	
Total compressor power	63 MW	
Total transported energy (in gas) in 2009	40,643 GWh	

FRANCE





Existing Gas Infrastructure

Number of TSOs	2 (GRTgaz and TIGF)
Total length of transmission network(s)	37,200 km
Total compressor power	646 MW

Inter-TSO connections where capacity is marketed (incl. upstream operators)	
GRTgaz	<ul style="list-style-type: none"> ○ Dunkerque / GASSCO (NO) ○ Taisnières H / FLUXYS (BE) ○ Taisnières B / FLUXYS (BE) ○ Obergailbach / OGE & GRTgaz D (DE) ○ Oltingue / ENI GTI (CH) ○ PIR Midi / TIGF (FR)
TIGF	<ul style="list-style-type: none"> ○ TIGF / GRTgazSud (FR)
LNG terminals	
GRTgaz	<ul style="list-style-type: none"> ○ Fos Tonkin / ELENGY ○ Fos Cavaou / ELENGY ○ Montoir / ELENGY
Storage facilities	
GRTgaz	<ul style="list-style-type: none"> ○ Germigny / STORENGY ○ Saint Clair / STORENGY ○ Cerville / SOTRENGY ○ Chemery / STORENGY ○ Céré-La-Ronde / STORENGY ○ Soings-en-Sologne / STORENGY ○ Beynes profond / STORENGY ○ Beynes supérieur / STORENGY ○ Saint-Illiers / STORENGY ○ Gournay / STORENGY ○ Etrez / STORENGY ○ Tersanne / STORENGY ○ Manosque / Géométhane
TIGF	<ul style="list-style-type: none"> ○ Lusagnet / TIGF ○ Izaute / TIGF ○ Pecorade / TIGF

Production facilities	
TIGF	<ul style="list-style-type: none"> ○ Lacq / Total
Directly connected customers	
GRTgaz	<ul style="list-style-type: none"> ○ Total : 862 directly connected customers ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 10
TIGF	<ul style="list-style-type: none"> ○ Total: 133 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 0
Total gas-fired generation power	<ul style="list-style-type: none"> ○ 5,000 MW (in 2011) (GRTgaz data)
Distribution systems SOs and total number of DSOs in the country: 25	
GRTgaz	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 3421 connections with DSOs ○ Number of DSOs: 18
TIGF	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 149 ○ Number of DSOs: 9
Physical hubs and Virtual Trading Points	<ul style="list-style-type: none"> ○ PEG Nord / GRTgaz ○ PEG Sud / GRTgaz ○ PEG TIGF (VTP) / TIGF
Number of balancing zones	3
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 490,753 GWh ○ 2008: 510,035 GWh ○ 2007: 493,875 GWh

GRTgaz is a public limited company created on January 1, 2005		
Website	www.grtgaz.com	
Current Publications	<ul style="list-style-type: none"> ○ 10-year Network Development Plan (voluntary) 	
Total length of the transmission network	32,200 (in km)	
Total compressor power	575 (in MW)	
Total transported energy (in gas) in 2009	662,000 (in GWh)	

TIGF SA, Total Infrastructures Gaz France SA		
Website	www.tigf.fr	
Current Publications	<ul style="list-style-type: none"> ○ 10-year Network Development Plan (voluntary) 	
Total length of the transmission network	5,000 km	
Total compressor power	71 MW	
Total transported energy (in gas) in 2009	102,000 GWh	

Germany



Existing Gas Infrastructure	
Number of TSOs	17
Total length of transmission network(s)	31,515 km (<i>participating TSOs only</i>)
Total compressor power	1,679 MW (<i>participating TSOs only</i>)
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
CROSS-BORDER	
bayernets	<ul style="list-style-type: none"> ○ Burghausen / OMV (AT) ○ Kiefersfelden / TIGAS (AT)
Gasunie Deutschland (GUD)	<ul style="list-style-type: none"> ○ Ellund / Energinet.dk (DK) ○ Emden-EPT1 / Gassco (NO) ○ Emden-NPT / Gassco (NO) ○ Oude Statenzijl H / Gas Transport Services (NL) ○ Oude Statenzijl L / Gas Transport Services (NL)
GRTgaz Deutschland	<ul style="list-style-type: none"> ○ Waidhaus / Net4Gas (CZ) ○ Oberkappel / BOG (AT) ○ Medelsheim / GRTgaz (FR)
ONTRAS – VNG Gastransport	<ul style="list-style-type: none"> ○ Lasow / GazSystem (PL) ○ Deutschneudorf / Net4Gas (CZ)
Open Grid Europe	<ul style="list-style-type: none"> ○ Bocholtz / Gas Transport Systems (NL) ○ Dornum / Gassco (NO) ○ Ellund / Energinet.de (DK) ○ Elten / Gas Transport Systems (NL) ○ Emden NPT / Gassco (NO) ○ Emden EPT / Gassco (NO) ○ Eynatten / Fluxys (BE) ○ Medelsheim / GRTgaz (FR) ○ Oberkappel / BOG (AT) ○ Oude Statenzijl / Gas Transport Systems (NL)

	<ul style="list-style-type: none"> ○ Oude Statenzijl 2 / Gas Transport Systems (NL) ○ Remich / Soteg (LU) ○ Vreden / Gas Transport Systems (NL) ○ Wallbach / ENI Gas Transport International / Swissgas (CH) ○ Waidhaus / Net4Gas (CZ)
Thyssengas	<ul style="list-style-type: none"> ○ Bocholtz-Vetschau / Gas Transport Services (NL) ○ Emden EMS EPT / Gassco AS (NO) ○ Emden EMS NPT / Gassco AS (NO) ○ Lichtenbusch / FLUXYS SA (BE) ○ Haanrade (L-gas) / Gas Transport Services (NL) ○ Zevenaer (L-gas) / Gas Transport Services (NL)
WINGAS TRANSPORT	<ul style="list-style-type: none"> ○ Bunde / Netherlands, Gas Transport Services (NL) ○ Mallnow / EuRoPol GAZ (PL) ○ Olbernhau / Net4Gas (CZ) ○ Überackern / OMV (AT) ○ Eynatten / Fluxys (BE)
Inter-TSO connections where capacity is marketed (incl. upstream operators) WITHIN-COUNTRY <i>(selection of points; please note that market area mergers as well as initiatives in CMP and CAM may lead to changes of within-country points where capacity is marketed)</i>	
	<ul style="list-style-type: none"> ○ Aachen Verlautenheide – I / Open Grid Europe; Thyssengas ○ Achim / Gasunie Deutschland; Open Grid Europe; Statoil Hydro Deutschland ○ L052T Ahlten / Erdgas Münster Transport; Open Grid Europe ○ Broichweiden Süd / Thyssengas; WINGAS TRANSPORT ○ Bunder-Tief / Gasunie Deutschland; Open Grid Europe ○ Drohne / Gasunie Deutschland; Open Grid Europe ○ Dülmen - Im Weddern / Open Grid Europe; Thyssengas

	<ul style="list-style-type: none"> ○ Emsben / Gasunie Deutschland ○ Emsbueren RG / Gasunie Deutschland; Open Grid Europe ○ Emsbueren-Berge / Gasunie Deutschland; Thyssengas ○ Kienbaum / Open Grid Europe; WINGAS TRANSPORT ○ Lampertheim / Open Grid Europe; WINGAS TRANSPORT ○ Nordlohne / Gasunie Deutschland; Open Grid Europe ○ Ochtrup I / Open Grid Europe; Thyssengas ○ Quarnstedt in-pipe / Gasunie Deutschland; Open Grid Europe ○ Reckrodt / Open Grid Europe; WINGAS TRANSPORT ○ Rull-Itterbeck / Erdgas Muenster Transport; Gasunie Deutschland ○ Steinitz / Ontras – VNG Gastransport; Open Grid Europe ○ Wardenburg / Gasunie Deutschland; Open Grid Europe; Statoil Hydro Deutschland ○ Werne - Stockum - Bockumer Straße / Open Grid Europe; Thyssengas
LNG terminals	
N/A	○ N/A
Storage facilities	
bayernets	○ Wolfersberg / Bayerngas
Erdgas Münster Transport	○ Empelde / Gasspeicher Hannover Empelde GHG
Gasunie Deutschland (GUD)	<ul style="list-style-type: none"> ○ UGS Doetlingen / BEB Speicher ○ UGS Harsefeld / BEB Speiche ○ UGS Nuettermoor H / EWE ○ UGS Uelsen / BEB Speicher ○ UGS Lesum / ExxonMobil Gasspeicher Deutschland ○ UGS Nuettermoor L (Mooraecker) / EWE


ONTRAS – VNG Gastransport	<ul style="list-style-type: none"> ○ UGS Bad Lauchstädt / VNG ○ UGS Bernburg / VNG ○ UGS Buchholz / VNG ○ UGS Kirchheiligen / VNG ○ UGS Kraak / E.ON Hanse ○ UGS Peckensen / Storengy
Open Grid Europe	<ul style="list-style-type: none"> ○ Bierwang / E.ON Gas Storage ○ Breitbrunn / E.ON Gas Storage ○ Epe / E.ON Gas Storage ○ Epe-L / E.ON Gas Storage ○ Eschenfelden / E.ON Gas Storage ○ Etzel / IVG Caverns ○ Gronau-Epe H1 / Trianel Gasspeichergesellschaft Epe ○ Gronau-Epe L1 / Rheinische Epe Gasspeicher ○ Gronau-Epe L2 / Nuon Epe Gasspeicher ○ Hähnlein / E.ON Gas Storage ○ Krummhörn / E.ON Gas Storage ○ Nüttermoor / EWE Energie ○ Stockstadt / E.ON Gas Storage
WINGAS TRANSPORT	<ul style="list-style-type: none"> ○ Rehden/ WINGAS ○ Neuhofen (Haidach) / WINGAS, GAZPROM Germania
Thyssengas	<ul style="list-style-type: none"> ○ LNG-Tank Dormagen - Nievenheim 1 / RWE Gasspeicher ○ Emlichheim - Kalle - 1 / RWE Gasspeicher ○ Epe III / Trianel Gasspeicher Epe ○ Epe I / RWE Gasspeicher ○ Xanten - 1 / RWE Gasspeicher
Other Interconnected TSs and DSs	<ul style="list-style-type: none"> ○ Allmenhausen / E.ON Thüringer Energie ○ Erdgasspeicher Berlin / GASAG ○ Eschenfelden / N-Ergie


	<ul style="list-style-type: none"> ○ Frankenthal / enovos ○ Fronhofen / Storengy ○ Huntorf / EWE ○ Kiel-Rönne / Stadtwerke Kiel ○ Lehrte / E.ON Avacon ○ Neuenhuntorf / EWE ○ Reckrod / Gas Union ○ Reitbrook / E.ON Hanse ○ Rüdersdorf / EWE ○ Sandhausen / E.ON Gas Storage; GVS ○ Schmidhausen / SWM ○ Stassfurt / RWE Gasspeicher
Production facilities	
Erdgas Münster Transport	<ul style="list-style-type: none"> ○ L326T „Löningen_EGM“ / Erdgas Münster ○ L305T „Schneeren“ / Erdgas Münster ○ L324T „Wetscherbruch“ / Biogas Wetscherbruch ○ L350T „Zone_Produktion“; Entry Zone / Erdgas Münster
Gasunie Deutschland (GUD)	<ul style="list-style-type: none"> ○ Bahnsen / Erdgas Muenster ○ Doetlingen Ue H / ExxonMobil Production Deutschland ○ Groothusen / ExxonMobil Production Deutschland ○ Imbrock / ExxonMobil Production Deutschland ○ Leer EGM / Erdgas Muenster ○ Visselhoevede MEEG / ExxonMobil Production Deutschland ○ Doetlingen Ue L / ExxonMobil Production Deutschland ○ Husum / ExxonMobil Production Deutschland ○ Lehringen Ri Luttum / ExxonMobil Production Deutschland ○ Lehringen Ri Voigtei / ExxobMobil Production


	<p>Deutschland</p> <ul style="list-style-type: none"> ○ Schneeren / Erdgas Muenster ○ Unterluess LL / ExxonMobil Production Deutschland ○ Voigtei / Erdgas Muenster
Directly connected customers	
Bayernets	<ul style="list-style-type: none"> ○ Total: 39 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 0
Erdgas Münster Transport	<ul style="list-style-type: none"> ○ Total: 44 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 3
Gasunie Deutschland (GUD)	<ul style="list-style-type: none"> ○ Total: 15 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 5
ONTRAS – VNG Gastransport	<ul style="list-style-type: none"> ○ Total: 34 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 13
Open Grid Europe	<ul style="list-style-type: none"> ○ Total: 207 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 20 (<i>excluding in downstream systems</i>)
Thyssengas	<ul style="list-style-type: none"> ○ Total: 145 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 5
WINGAS TRANSPORT	<ul style="list-style-type: none"> ○ Total: 24 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 7
Total gas-fired power generation	<ul style="list-style-type: none"> ○ 24,620 MW


Distribution systems SOs and total number of DSOs in the country: > 700	
<i>(Sum of figures below does not match because of structure of grid levels in Germany)</i>	
Erdgas Münster Transport	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 57 ○ Number of DSOs: 14 (directly connected)
GRTgaz Deutschland	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 6 <i>(shared with Open Grid Europe GmbH)</i> ○ Number of DSOs: 6 (directly connected)
Gasunie Deutschland	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 135 ○ Number of DSOs: 36 (directly connected)
bayernets	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 114 ○ Number of DSOs: 8 (directly connected)
ONTRAS – VNG Gastransport	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 430 ○ Number of DSOs: 56 (directly connected)
Open Grid Europe	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 791 ○ Number of DSOs: 98 (directly connected)
Thyssengas	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: approx. 900 ○ Number of DSOs: 56 (directly connected)
WINGAS TRANSPORT	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 40 ○ Number of DSOs: 40 (directly connected)
Physical hubs and Virtual Trading Points	<ul style="list-style-type: none"> ○ VHP Gaspool / GASPOOL Balancing Services ○ VHP L-gas 1 / Aequamus ○ VHP Net Connect Germany ○ VHP Open Grid Europe (L-gas) ○ VHP Thyssengas H-gas / Thyssengas ○ VHP Thyssengas L-gas / Thyssengas
Number of balancing zones	<p>6</p> <p><i>(to be reduced to 3 from 1 April 2011, further reduction envisaged for 2013 according to the new German Network Access Ordinance)</i></p>

Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 801,951 GWh ○ 2008: 850,007 GWh ○ 2007: 864,451 GWh


bayernets GmbH <i>(Limited Liability Company)</i> 	
Website	www.bayernets.de
Current Publications	please note that publication obligations will change by April 2011 according to new Network Access Ordinance
Total length of the transmission network	1,314 km
Total compressor power	8 MW
Total transported energy (in gas) in 2009	71,858 GWh


Erdgas Münster Transport GmbH & Co. KG <i>(limited partnership with a Limited Liability Company as general partner)</i> 	
ERDGAS MÜNSTER Transport	
Website	www.egmt.de
Current Publications	please note that publication obligations will change by April 2011 according to new Network Access Ordinance
Total length of the transmission network	721 km
Total compressor power	0 MW
Total transported energy (in gas) in 2009	38,406 GWh


Gasunie Deutschland Transport Services GmbH¹ <i>(Limited Liability Company)</i>		
Website	www.gasunie.de	
Current Publications	please note that publication obligations will change by April 2011 according to new Network Access Ordinance	
Total length of the transmission network	3,201 km	
Total compressor power	125 MW	
Total transported energy (in gas) in 2009	242,656 GWh	


GRTgaz Deutschland GmbH <i>(Limited Liability Company)</i>		
Website	www.grtgaz-deutschland.de	
Current Publications	please note that publication obligations will change by April 2011 according to new Network Access Ordinance	
Total length of the transmission network	1,134 km	
Total compressor power	288 MW <i>(ISO, including emergency units)</i>	
Total transported energy (in gas) in 2009	Entry : 83,050 GWh Exit : -84,799 GWh Signiert : -1,749 GWh	

¹ Gasunie Deutschland has taken over the transport business of Dong Energy Pipelines as of 01. Jan 2011.

ONTRAS – VNG Gastransport GmbH <i>(Limited Liability Company)</i>		
Website	www.ontras.com	
Current Publications	please note that publication obligations will change by April 2011 according to new Network Access Ordinance	
Total length of the transmission network	7,069 km	
Total compressor power	confidential	
Total transported energy (in gas) in 2009	158,000 GWh	

Open Grid Europe GmbH <i>(Limited Liability Company)</i>		
Website	www.open-grid-europe.com	
Current Publications	please note that publication obligations will change by April 2011 according to new Network Access Ordinance	
Total length of the transmission network	11,551 km	
Total compressor power	993 MW	
Total transported energy (in gas) in 2009	658,551 GWh	

Thyssengas GmbH <i>(Limited Liability Company)</i>		
Website	www.thyssengas.com	
Current Publications	please note that publication obligations will change by April 2011 according to new Network Access Ordinance	
Total length of the transmission network	4,217 km	
Total compressor power	124 MW	
Total transported energy (in gas) in 2009	73,001 GWh	


WINGAS TRANSPORT GmbH & Co. KG <i>(limited partnership with a Limited Liability Company as general partner)</i>		
Website	www.wingas-transport.de	
Current Publications	please note that publication obligations will change by April 2011 according to new Network Access Ordinance	
Total length of the transmission network	2,198 km	
Total compressor power	411 MW	
Total transported energy (in gas) in 2009	375,019 GWh	

Greece



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	1,218 km
Total compressor power	0 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
DESFA	<ul style="list-style-type: none"> ○ Sidirokastron / Bulgartransgaz (BG) ○ Kipi / Botas (TK)
LNG terminals	
DESFA	<ul style="list-style-type: none"> ○ LNG Terminal at Revythoussa

Storage facilities	
N/A	○ N/A
Directly connected customers	
DESFA	<ul style="list-style-type: none"> ○ Total: 34 Exit Points ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 12
Total gas-fired power generation	○ 4,139 MW (<i>Source: DESFA</i>)
Distribution systems SOs and total number of DSOs in the country	
DESFA	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 21 ○ Number of DSOs: 4 (<i>DEPA and 3 Local DSOs</i>)
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 37,284 GWh ○ 2008: 44,522 GWh ○ 2007: 42,629 GWh

DESFA s.a. <i>(public limited company)</i>		
Website	www.desfa.gr	
Current Publications	10-year Network Development Plan (mandatory)	
Total length of the transmission network	1,218 km	
Total compressor power	0 MW	
Total transported energy (in gas) in 2009	37,339 GWh	


Hungary



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	5,564 km
Total compressor power	188 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
FGSZ	<ul style="list-style-type: none"> ○ Beregdaróc/ Ukrtransgas (UA) ○ Mosonmagyaróvár/ OMV Gas (AT) ○ Kiskundorozsma/ Srbijagas (RS) ○ Csanádpalota/ Transgaz (RO) ○ Drávaszerdahely/Plinacro (HR)
LNG terminals	
	<ul style="list-style-type: none"> ○ N/A

Storage facilities	
FGSZ	<ul style="list-style-type: none"> ○ Zsana / E.ON Földgáz Storage ○ Hajdúszoboszló / E.ON Földgáz Storage ○ Pusztaederics / E.ON Földgáz Storage ○ Kardoskú / E.ON Földgáz Storage ○ Szőreg-I / MMBF
Production facilities	
FGSZ	<ul style="list-style-type: none"> ○ Algyő III "O" pont / MOL ○ Babócsa "O" pont / MOL ○ Endrőd "O" pont / MOL ○ Hajdúszoboszló "O" pont / MOL ○ Karcag II (Bucsa) "O" pont / MOL ○ Pusztaederics "O" pont / MOL ○ Szank "O" pont / MOL ○ Kardoskút regional/ MOL ○ Kenderes II inert "O" pont / MOL ○ Babócsa regional/ MOL ○ Tiszavasvári II "O" pont/ HHE North
Directly connected customers	
FGSZ Ltd.	<ul style="list-style-type: none"> ○ Total: 40 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 14
Total gas-fired power generation	4,217 MW
Distribution systems SOs and total number of DSOs in the country	
FGSZ Ltd.	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 356 ○ Number of DSOs: 9
Physical hubs and Virtual Trading Points	<ul style="list-style-type: none"> ○ MGP I / FGSZ ○ MGP II / FGSZ

Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 116,901 GWh ○ 2008: 135,683 GWh ○ 2007: 138,556 GWh

FGSZ Ltd. <i>(Natural Gas Transmission Company Limited by Shares)</i>		
Website	www.fgsz.hu	
Current Publications	10-year Network Development Plan (mandatory) Winter Outlook (voluntary) Summer Outlook (voluntary)	
Total length of the transmission network	5,564 km	
Total compressor power	188 MW	
Total transported energy (in gas) in 2009	181,882 GWh	

Ireland



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	2,105 km
Total compressor power	94 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Gaslink	<ul style="list-style-type: none"> ○ Moffat / National Grid (UK) ○ Twynholm / Premier Transmission (UK)
LNG terminals	
	<ul style="list-style-type: none"> ○ N/A
Storage facilities	
Gaslink	<ul style="list-style-type: none"> ○ Southwest Kinsale Field / Celtic Sea (service provided)

	by Kinsale Energy)
Interconnected DSs	○ N/A
Production facilities	
Gaslink	<ul style="list-style-type: none"> ○ Seven Heads / Celtic Sea / Kinsale Energy ○ Corrib* / West Coast Ireland (Mayo) / Corrib Partners (Expected to commence production in 2013)
Directly connected customers	
Gaslink	<ul style="list-style-type: none"> ○ Total: 57 (including Power Stations) ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 13
Total gas-fired power generation	3,806 MW
Distribution systems SOs and total number of DSOs in the country	
Gaslink	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 106 ○ Number of DSOs: 1
Physical hubs and Virtual Trading Points	○ Irish Balancing Point (IBP) (virtual)
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 55,557 GWh ○ 2008: 57,321 GWh ○ 2007: 53,669 GWh

Gaslink Independent System Operator Ltd	
	
Website	www.gaslink.ie

Current Publications	Transmission Development Statement 2010 Winter Outlook 2009/10 – 2018/19
Total length of the transmission network	2,105 km
Total compressor power	94 MW
Total transported energy (in gas) in 2009	55,557 GWh

Italy





Existing Gas Infrastructure	
Number of TSOs	10
Total length of transmission network(s)	33,584 km
Total compressor power	857 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Snam Rete Gas	<ul style="list-style-type: none"> ○ Passo Gries / ENI GTI (CH) ○ Passo Gries / Swissgas (CH) ○ Tarvisio / TAG (AT) ○ Gorizia / Geoplin (SI) ○ Gela / Greenstream (LY) ○ Mazara del Vallo / TPMC (TN) ○ Bizzarone / DSO (CH) ○ San Marino / DSO (SM)
LNG terminals	
Snam Rete Gas	<ul style="list-style-type: none"> ○ Panigaglia / GNL Italia ○ Cavarzere / Adriatic LNG (<i>Snam Rete Gas markets the entry point capacity</i>)
Storage facilities	
Snam Rete Gas	<ul style="list-style-type: none"> ○ Brugherio / Stogit ○ Cortemaggiore / Stogit ○ Fiume Treste / Stogit ○ Minerbio / Stogit ○ Ripalta / Stogit ○ Sabbioncello / Stogit ○ Sergnano / Stogit ○ Settala / Stogit

Società Gasdotti Italia	<ul style="list-style-type: none"> ○ Cellino / Edison Stoccaggio ○ Collalto / Edison Stoccaggio <p><i>(Interconnected to the national network through two virtual entry-exit points: Stogit hub and Edison Stoccaggio hub)</i></p>
Interconnected DSs	<ul style="list-style-type: none"> ○ N/A
Production facilities	
Snam Rete Gas	<ul style="list-style-type: none"> ○ Casteggio ○ Caviaga ○ Fornovo ○ Ovanengo ○ Piadena Ovest ○ Pontetidone ○ Quarto ○ Rivolta d'Adda ○ Soresina ○ Trecate ○ Casalborsetti ○ Collalto ○ Medicina ○ Muzza ○ Ravenna Mare ○ Ravenna Mare Lido Adriano ○ Santerno ○ Spilamberto B.P. ○ Vittorio V. (S. Antonio) ○ Rubicone ○ Falconara

- Fano
- Carassai
- Cellino
- Grottammare
- Montecosaro
- Pineto
- S. Giorgio M.
- San Benedetto T.
- Settefinestre/Passatempo
- Fonte Filippo
- Larino
- Ortona
- Poggiofiorito
- Reggente
- S. Stefano M.
- Candela
- Roseto/T. Vulcano
- Torrente Tona
- Calderasi/Monteverdese
- Metaponto
- Monte Alpi
- Pisticci A.P./ B.P.
- Sinni (Policoro)
- Crotone
- Hera Lacinia
- Bronte

	<ul style="list-style-type: none"> ○ Comiso ○ Gagliano ○ Mazara/Lippone ○ Noto
Directly connected customers	
Snam Rete Gas	<ul style="list-style-type: none"> ○ Total: around 3,500 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 121 (<i>(bi-fuel) plants with over 5 MW generation power plus 3 connected to other TSOs</i>)
Total gas-fired power generation	○ 50,453 MW
Distribution systems SOs and total number of DSOs in the country	
Snam Rete Gas	<p>Number of physical TS-DS connections: around 3,500</p> <p>Number of DSOs: 244</p> <p><i>(Source: AEEG Annual Report, 2010; this may include DSOs not directly connected to Snam Rete Gas' network)</i></p>
Physical hubs and Virtual Trading Points	○ Punto di Scambio Virtuale (PSV) / Snam Rete Gas
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 826,876 GWh ○ 2008: 898,313 GWh ○ 2007: 898,525 GWh

Snam Rete Gas S.p.A. (Società per Azioni). Public company		
Website	www.snamretegas.it	
Current Publications	Development Plan of SRG Network - Ten year basis (mandatory)	
Total length of the transmission network	31,531 km	
Total compressor power	857 MW	
Total transported energy (in gas) in 2009	813,858 GWh	

Edison Stoccaggio Spa (Società per Azioni – Joint Stock Company)		
Website	www.edisonstoccaggio.it	
Total length of the transmission network	83 km	
Total compressor power	0	
Total transported energy (in gas) in 2009	16,264 GWh <i>(During September-December 2009 after entry into operation of Adriatic LNG terminal)</i>	

Other Italian TSOs	
Name	Total length of the transmission network
Consorzio della Media Valtellina per il trasporto del gas	35 km
Gas Plus Trasporto	42 km
Italcogim Trasporto	15 km
Metan Alpi Energia	67 km
Metanodotto Alpino	76 km
Netenergy Service	36 km
Retragas	402 km
Società Gasdotti Italia	1,297 km

Latvia



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	1,281 km
Total compressor power	0 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Latvijas Gaze	<ul style="list-style-type: none"> ○ Kiemenai / Lietuvos Dujos (LT) ○ Karksi (LT) / Eesti Gaas (EE) ○ Kornei / Gazprom (RU) <p><i>(no capacity is marketed)</i></p>
LNG terminals	
	<ul style="list-style-type: none"> ○ N/A

Storage facilities	
Latvijas Gaze	○ Incukalns / Latvijas Gaze
Interconnected DSs	○ N/A
Production facilities	
	○ N/A
Directly connected customers	
Latvijas Gaze	<ul style="list-style-type: none"> ○ Total: 0 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 2
Total gas-fired power generation	○ 845 MW
Distribution systems SOs and total number of DSOs in the country	
Latvijas Gaze	<ul style="list-style-type: none"> ○ 44 ○ Number of DSOs: 1
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 15,453 GWh ○ 2008: 16,881 GWh ○ 2007: 17,316 GWh

Joint Stock Company “Latvijas Gaze”




Website	www.lg.lv
Current Publications	Annual mandatory TSO assessment containing a 10 year prognosis (www.em.gov.lv)
Total length of the transmission network	1,281 km
Total compressor power	0 MW
Total transported energy (in gas) in 2009	33,300 GWh

Lithuania

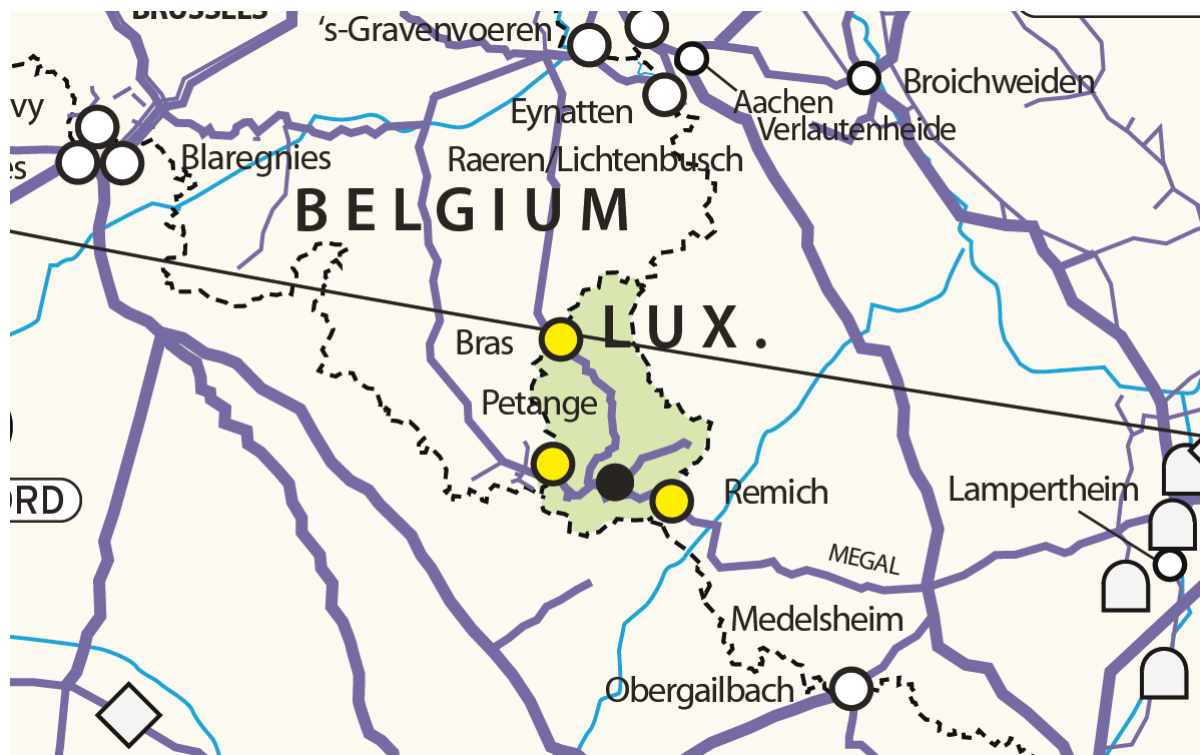


Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	1,865 km
Total compressor power	42 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Lietuvos Dujos	<ul style="list-style-type: none"> ○ Kotlovka / Beltransgaz (BY) ○ Kiemenai /Gaze (LT) ○ Sakiai / Gazprom (RU)
LNG terminals	
	○ N/A
Storage facilities	
Lietuvos Dujos	<ul style="list-style-type: none"> ○ in Lithuania: N/A ○ Incukalns (LV) / Latvijas Gaze

Interconnected DSs	○ N/A
Production facilities	
	○ N/A
Directly connected customers	
Lietuvos Dujos	<ul style="list-style-type: none"> ○ Total: 7 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 3
Total gas-fired power generation	2,098 MW
Distribution systems SOs and total number of DSOs in the country	
Lietuvos Dujos	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 66 ○ Number of DSOs: 5
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 27,714 GWh ○ 2008: 33,043 GWh ○ 2007: 36,813 GWh


AB Lietuvos Dujos		 LIETUVOS DUJOS
Website	www.dujos.lt	
Current Publications	N/A	
Total length of the transmission network	1,865 km	
Total compressor power	42 MW	
Total transported energy (in gas) in 2009	40,089 GWh	

Luxembourg



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	300 km
Total compressor power	0
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
CREOS	<ul style="list-style-type: none"> ○ Bras / Fluxys (BE) ○ Pétange / Fluxys (BE) ○ Remich / Open Grid Europe (DE)
LNG terminals	
	○ N/A
Storage facilities	
	○ N/A
Interconnected DSs	○ N/A

Production facilities	
	○ N/A
Directly connected customers	
CREOS	<ul style="list-style-type: none"> ○ Total: 45 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 1
Total gas-fired power generation	505 MW
Distribution systems SOs and total number of DSOs in the country	
CREOS	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 34 ○ Number of DSOs: 4
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	1 (+1 DSO)
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 14,376 GWh ○ 2008: 14,118 GWh ○ 2007: 15,880 GWh

CREOS Luxembourg SA		
Website	www.creos.net	
Current Publications	N/A	
Total length of the transmission network	300 km	
Total compressor power	0 MW	
Total transported energy (in gas) in 2009	14,376 GWh	

The Netherlands



Existing Gas Infrastructure

Number of TSOs	1
Total length of transmission network(s)	11,500 km
Total compressor power	Over 900 MW

Inter-TSO connections where capacity is marketed (incl. upstream operators)

Gas Transport Services	<ul style="list-style-type: none"> ○ Bocholtz TENP / OGE (DE) ○ Bocholtz Vetschau / RTG (DE) ○ Dinxperlo (L-gas) / RWE (DE) ○ Emden EPT / Gassco (NO)
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	<ul style="list-style-type: none"> ○ Emden NPT / Gassco (NO) ○ 's Gravenvoeren / Fluxys (BE) ○ Haanrade (L-gas) / RWE (DE) ○ Hilvarenbeek / Fluxys (BE) ○ Julianadorp / BBL Company (NL) ○ Nüttermoor / EWE (DE) ○ Obbicht/Dilsen / Fluxys (BE) ○ Oude Statenzijl EWE (L-gas) / EWE (DE) ○ Oude Statenzijl GUD (H-gas) / Gasunie GER (DE) ○ Oude Statenzijl GUD (L-gas) / Gasunie GER (DE) ○ Oude Statenzijl OGE / OGE (DE) ○ Oude Statenzijl Renato / OGE (DE) ○ Oude Statenzijl Wingas (H-gas) / Wingas (DE) ○ Tegelen (L-gas) / OGE (DE) ○ Vliegghuis / RWE (DE) ○ Winterswijk (L-gas) / OGE (DE) ○ Zandvliet (H-gas) / Fluxys (BE) ○ Zandvliet (H-gas) / Wingas (DE) ○ Zandvliet (L-gas) / Fluxys (BE) ○ Zelzate / Fluxys (BE) ○ Zevenaar (L-gas) / OGE (DE)
LNG terminals	
Gas Transport Services	<ul style="list-style-type: none"> ○ LNG Rotterdam (GATE) / Gate (NL)
Storage facilities	
Gas Transport Services	<ul style="list-style-type: none"> ○ Grijpskerk / NAM ○ Norg / NAM ○ Alkmaar / TAQA-PGI ○ Maasvlakte / Gasunie (peakshaver) ○ Zuidwending / Gasunie Zuidwending ○ Epe (DE) / Essent-UGS

	<ul style="list-style-type: none"> ○ Kalle (DE) / RWE-UGS ○ Epe (DE) / NUON-UGS
Interconnected DSs	<ul style="list-style-type: none"> ○ N/A
Production facilities	
Gas Transport Services	<ul style="list-style-type: none"> ○ Koedijk / TAQA Energy ○ Anjum / NAM ○ Annerveen / NAM ○ Balgzand H-cal / NAM ○ Balgzand L-cal / NAM ○ Balgzand Nogat / NAM ○ Barendrecht / NAM ○ Bedum / NAM ○ Blija / NAM ○ Beverwijk / Wintershall ○ Botlek / NAM ○ Emmen Gzi / NAM ○ Botlek / Esso Flexicoker ○ Gaag / NAM ○ Garijp / Vermilion Energy ○ Grootegast / NAM ○ Grijskerk / NAM ○ Harlingen / Vermilion Energy ○ Kootstertille / NAM ○ Maasvlakte / TAQA Energy Bv ○ Marum / NAM ○ Middenmeer / Vermilion Energy ○ Monster / NAM ○ Uithuizen / NGT ○ Opende Oost / NAM ○ Oude Pekela / NAM ○ Rotterdam Westgas / NAM

	<ul style="list-style-type: none"> ○ Groningen / NAM ○ Ten Arlo / NAM ○ Ureterp / NAM ○ Vries / NAM ○ Waalwijk / Wintershall ○ Warffum / NAM ○ Westerveld / NAM ○ Middelie / NAM ○ Brakel Wijk & Aalburg / Northern Petroleum ○ Zwolle Hessenpoort / Natuurgas Overijssel BV
Directly connected customers	
Gas Transport Services	<ul style="list-style-type: none"> ○ Total over 300 ○ Gas-fired power plants: <ul style="list-style-type: none"> ▪ Number: 28
Total gas-fired power generation	○ 17,771 MW
Distribution systems SOs and total number of DSOs in the country	
Gas Transport Services	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: over 600 ○ Number of DSOs: 9
Physical hubs and Virtual Trading Points	○ Title Transfer Facility (TTF) / APX-ENDEX
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 423,000 GWh ○ 2008: 424,000 GWh ○ 2007: 405,000 GWh

Gas Transport Services B.V. (Ltd. private limited company)	
<div> <div>gas</div> <div>transport</div> <div>services</div> </div>	
	http://www.gastransportservices.nl
Current Publications	<ul style="list-style-type: none"> ○ Quality and Capacity Document ○ Security of Gas Supply ○ Survey Small Fields ○ Transport Insight
Total length of the transmission network	11,500 km
Total compressor power	Over 800 MW
Total transported energy (in gas) in 2009	967,175 GWh

Poland



Existing Gas Infrastructure

Number of TSOs	2
Total length of transmission network(s)	10,392 km <i>(Under assumption that no transit infrastructure is included)</i>

Total compressor power


Inter-TSO connections where capacity is marketed (incl. upstream operators)


Gaz-System	<ul style="list-style-type: none"> ○ Lasów / Ontras (DE) ○ Drozdowicze / Ukrtransgaz (UA) ○ Tietierowka / Bieltransgaz (BY) ○ Wysokoje / Bieltransgaz (BY)
EuRoPol-GAZ	<ul style="list-style-type: none"> ○ Kondratki / Bieltransgaz (BY)

In-country	<ul style="list-style-type: none"> ○ Mallnow / Wingas transport (DE) ○ Lwówek / EuRoPol-GAZ / Gaz-System ○ Wloclawek / EuRoPol-GAZ / Gaz-System
LNG terminals	
	<ul style="list-style-type: none"> ○ N/A
Storage facilities	
Gaz-System	<ul style="list-style-type: none"> ○ Swarzędz / PGNiG ○ Strachocina / PGNiG ○ Brzeźnica / PGNiG ○ Husów / PGNiG ○ Wierzchowice / PGNiG ○ Mogilno / PGNiG ○ Daszewo (Low-Methane Gas) / PGNiG ○ Bonikowo (Low-Methane Gas) / PGNiG ○ PMG Mikstat
Interconnected DSs	<ul style="list-style-type: none"> ○ N/A
Production facilities	
Gaz-System	<ul style="list-style-type: none"> ○ Sanok / PGNiG ○ Zielona Góra / PGNiG ○ Odolanów / PGNiG
Directly connected customers	
Chemical Industry:	<ul style="list-style-type: none"> ○ Number: 23
Gas-fired central heating and power plants:	<ul style="list-style-type: none"> ○ Number: 11
Other industrial customers:	<ul style="list-style-type: none"> ○ Number: 44
Total gas-fired power generation	<ul style="list-style-type: none"> ○ 1,193 MW

Distribution systems SOs and total number of DSOs in the country	
Gaz-System	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 884 ○ Number of DSOs: 14
Physical hubs and Virtual Trading Points	1
Number of balancing zones	2
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2007: 160,194 GWh ○ 2008: 161,291 GWh ○ 2009: 155,800 GWh <p><i>(total gas transported volume with also Transmission to the UGS and transmission of the Low-Methane Gas recalculated to the High-Methane Gas)</i></p>

○

Operator Gazociągów Przesyłowych GAZ-SYSTEM S.A. (The Gas Transmission System Operator GAZ-SYSTEM plc) 	
Website	http://www.gaz-system.pl
Current Publications	N/A
Total length of the transmission network	9,709 km
Total transported energy (in gas) in 2009	2009: 155,800 GWh <i>(total gas transported volume with also transmission to the UGS and transmission of Low-Methane Gas recalculated to High-Methane Gas)</i>


EuRoPol GAZ S.A. 	
Website	http://www.europolgaz.com.pl
Current Publications	N/A
Total length of the transmission network	684 km
Total transported energy (in gas) in 2009	2009: 310,530 GWh

PORTUGAL

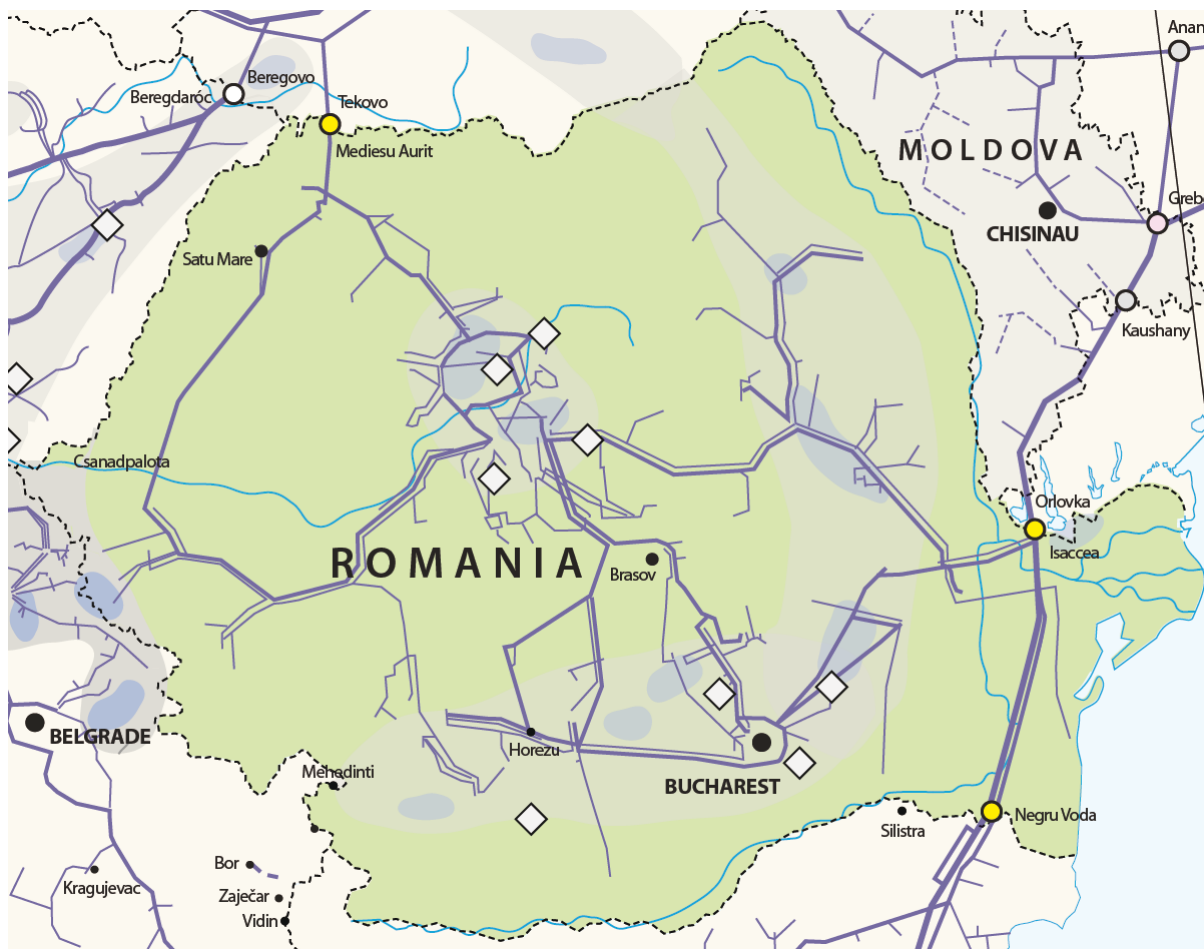


Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	1,299 km
Total compressor power	0 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
REN Gasodutos	<ul style="list-style-type: none"> Valença do Minho / Enagas (ES) Campo Maior / Enagas (ES)
LNG terminals	
REN Gasodutos	<ul style="list-style-type: none"> Sines / REN Atlântico
Storage facilities*	
REN Gasodutos	<ul style="list-style-type: none"> Carrico / REN Armazenagem, Carrico / Transgás Armazenagem

Interconnected DSs	○ N/A
Production facilities	
	○ N/A
Directly connected customers	
REN Gasodutos	<ul style="list-style-type: none"> ○ Total: 16 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 4 sites (10 CCGT groups)
Total gas-fired power generation	○ 3,826 MW (Source: REN Gasodutos)
Distribution systems SOs and total number of DSOs in the country	
REN Gasodutos	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 69 ○ Number of DSOs: 7
Physical hubs and Virtual Trading Points	N/A
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 52,400 GWh ○ 2008: 52,985 GWh ○ 2007: 48,454 GWh

REN Gasodutos, SA <i>Sociedade Anónima</i> <i>('plc / Public Limited Company')</i>		
Website	www.ren.pt	
Current Publications	N/A	
Total length of the transmission network	1,299 km	
Total compressor power	0 MW	
Total transported energy (in gas) in 2009	52,400 GWh	

Romania



Existing Gas Infrastructure


Number of TSOs	1
Total length of transmission network(s)	13,000 km
Total compressor power	30 MW

Inter-TSO connections where capacity is marketed (incl. upstream operators)

TRANSGAZ	<ul style="list-style-type: none"> ○ Csanadpalota / FGSZ (HU) ○ Isaccea I / Ukrtransgaz (UA) ○ Isaccea II / Ukrtransgaz (UA) ○ Isaccea III / Ukrtransgaz (UA) ○ Isaccea IV / Ukrtransgaz (UA)
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	<ul style="list-style-type: none"> ○ Mediesu Aurit / Ukrtransgaz (UA) ○ Negru Voda I / BULGARTRANGAZ (BG) ○ Negru Voda II / BULGARTRANGAZ (BG) ○ Negru Voda III / BULGARTRANGAZ (BG)
LNG terminals	<ul style="list-style-type: none"> ○ N/A
Storage facilities	
TRANSGAZ	<ul style="list-style-type: none"> ○ Sarvas / SNGN Romgaz ○ Balaceanca / SNGN Romgaz ○ Bilciuresti / SNGN Romgaz ○ Cetatea de Balta / SNGN Romgaz ○ Ghercesti / SNGN Romgaz ○ Urziceni / SNGN Romgaz ○ Tg. Mures / DEPOMURES ○ Nades- Prod - Seleus / AMGAZ
Interconnected DSs	<ul style="list-style-type: none"> ○ N/A
Production facilities	
TRANSGAZ	<ul style="list-style-type: none"> ○ 93 entry points / SNGN Romgaz ○ 49 entry points / OMV Petrom ○ 4 entry points / Amromco Energy ○ 1 entry point / Aurelian Oil & Gas ○ 1 entry point / Lotus Petrol ○ 1 entry point / Wintershall Holding
Directly connected customers	
TRANSGAZ	<ul style="list-style-type: none"> ○ Total: 229 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 15
Total gas-fired power generation	3,084 MW

Distribution systems SOs and total number of DSOs in the country	
TRANSGAZ	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 827 ○ Number of DSOs: 38
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	○ N/A
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 122,830 GWh ○ 2008: 146,721 GWh ○ 2007: 152,218 GWh

Societatea Nationala De Transport Gaze Naturale "TRANSGAZ" SA. (Societate pe Actiuni; Joint Stock Company) 	
Website	www.transgaz.ro
Current Publications	1-year Network Development Plan (voluntary)
Total length of the transmission network	13,000 km
Total compressor power	30 MW
Total transported energy (in gas) in 2009	153,069 GWh


Serbia



Existing Gas Infrastructure	
Number of TSOs	2
Total length of transmission network(s)	2,265 km
Total compressor power	4 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
SRBIJAGAS	<ul style="list-style-type: none"> ○ Kiskundorozsma/ FGSZ-HU ○ Zvornik / BH-gas-BA ○ Pojate / YUGOROSGAZ
YUGOROSGAZ	<ul style="list-style-type: none"> ○ Pojate / SRBIJAGAS-RS

LNG terminals	
	○ N/A
Storage facilities	
SRBIJAGAS	○ Banatski Dvor / GASPROM GERMANIA
Interconnected DSs	○ N/A
Production facilities	
SRBIJAGAS	○ Domestic fields / Northern Serbia / NIS - Gasprom Neft
Directly connected customers	
SRBIJAGAS	<ul style="list-style-type: none"> ○ Total: 69 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 3
Total gas-fired power generation	○ 400 MW (<i>Srbijagas data</i>)
YUGOROSGAZ	<ul style="list-style-type: none"> ○ Total: N/A ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: N/A
Distribution systems SOs and total number of DSOs in the country	
SRBIJAGAS	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 134 ○ Number of DSOs: 36
YUGOROSGAZ	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: N/A ○ Number of DSOs: N/A
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	0
Demand	
Historical annual gas demand of the	○ 2009: 17,100 GWh

national market (final customers)	<ul style="list-style-type: none"> ○ 2008: 22,300 GWh ○ 2007: 21,800 GWh
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SRBIJAGAS , public enterprise , 100% state owned 	
Website	www.srbijagas.com
Current Publications	1-year Network Development Plan (mandatory)
Total length of the transmission network	2,200 km
Total compressor power	4 MW
Total transported energy (in gas) in 2009	N/A

Slovakia



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	2,270 km
Total compressor power	1,000 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Eustream	<ul style="list-style-type: none"> ○ Velké Kapušany / Naftogas
Eustream	<ul style="list-style-type: none"> ○ Lanžhot / NET4GAS
Eustream	<ul style="list-style-type: none"> ○ Baumgarten / Baumgarten-Oberkappel Gasleitungsgesellschaft m.b.H ○ Baumgarten / , OMV Gas GmbH ○ Baumgarten / Trans Austria Gasleitung GmbH

LNG terminals	
	○ N/A
Storage facilities	
Eustream	<ul style="list-style-type: none"> ○ Láb / NAFTA a.s. ○ Dolní Bojanovice / SPP Bohemia a.s.
SPP – distribúcia, a.s.	○ Láb / NAFTA a.s.
Production facilities	
	○ N/A
Directly connected customers	
Eustream	<ul style="list-style-type: none"> ○ Total: 0 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: N/A
Total gas-fired power generation	1,421 MW
Distribution systems SOs and total number of DSOs in the country	
Eustream.	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 5 ○ Number of DSOs: 49
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 52,356 GWh ○ 2008: 56,561 GWh ○ 2007: 57,131 GWh


<div>eustream, a.s.</div> <div>  </div>	
Website	www.eustream.sk
Current Publications	N/A
Total length of the transmission network	2,270 km
Total compressor power	1,000 MW
Total transported energy (in gas) in 2009	692,600 GWh

Slovenia



Existing Gas Infrastructure	
Number of TSOs	1
Total length of transmission network(s)	1,018 km
Total compressor power	16 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
	○ N/A

LNG terminals	
	○ N/A
Storage facilities	
	○ NA
Interconnected DSs	○ N/A
Production facilities	
	○ N/A
Directly connected customers	
Geoplin plinovodi	<ul style="list-style-type: none"> ○ Total: 173 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 2
Total gas-fired power generation	402 MW
Distribution systems SOs and total number of DSOs in the country	
Geoplin plinovodi	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 133 ○ Number of DSOs: 18
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 10,673 GWh ○ 2008: 11,296 GWh ○ 2007: 11,760 GWh

Geoplin plinovodi d.o.o. <i>d.o.o. = Limited Liability Company</i>		
Website	www.geoplin-plinovodi.si	
Current Publications	10-year Network Development Plan (mandatory)	
Total length of the transmission network	1,018 km	
Total compressor power	16 MW	
Total transported energy (in gas) in 2009	21,728 GWh	

Spain



Existing Gas Infrastructure

Number of TSOs	2
Total length of transmission network(s)	9,984 km
Total compressor power	413 MW


Inter-TSO connections where capacity is marketed (incl. upstream operators)


Enagás	○ Larrau / TIGF (FR)
Naturgas Energía	○ Biriattou / TIGF (FR)
Enagás	○ Tuy / REN gasodutos (PT)

Enagás	○ Badajoz / REN gasodutos (PT)
Enagás	○ Tarifa / SAGANE and Enagás (MA)
Enagás	○ Almería/ MEDGAZ (DZ)
LNG terminals	
Enagás	○ Barcelona / Enagás
Enagás	○ Cartagena / Enagás
Enagás	○ Huelva / Enagás
Enagás	○ Bilbao / BBG and Enagás
Enagás	○ Sagunto / SAGGAS
Enagás	○ Mugaros / Reganosa
Storage facilities*	
Enagás	○ Gaviota, Vizcaya / Enagás
Enagás	○ Serrablo, Huesca / Enagás
Production facilities	
Enagás	○ Marismas, Huelva / Gas Natural
Directly connected customers	
Enagás	<ul style="list-style-type: none"> ○ Total: 20 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 12*
Naturgas	<ul style="list-style-type: none"> ○ Total: 8 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 5*
Other TSOs	<ul style="list-style-type: none"> ○ Total: 16 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 11*

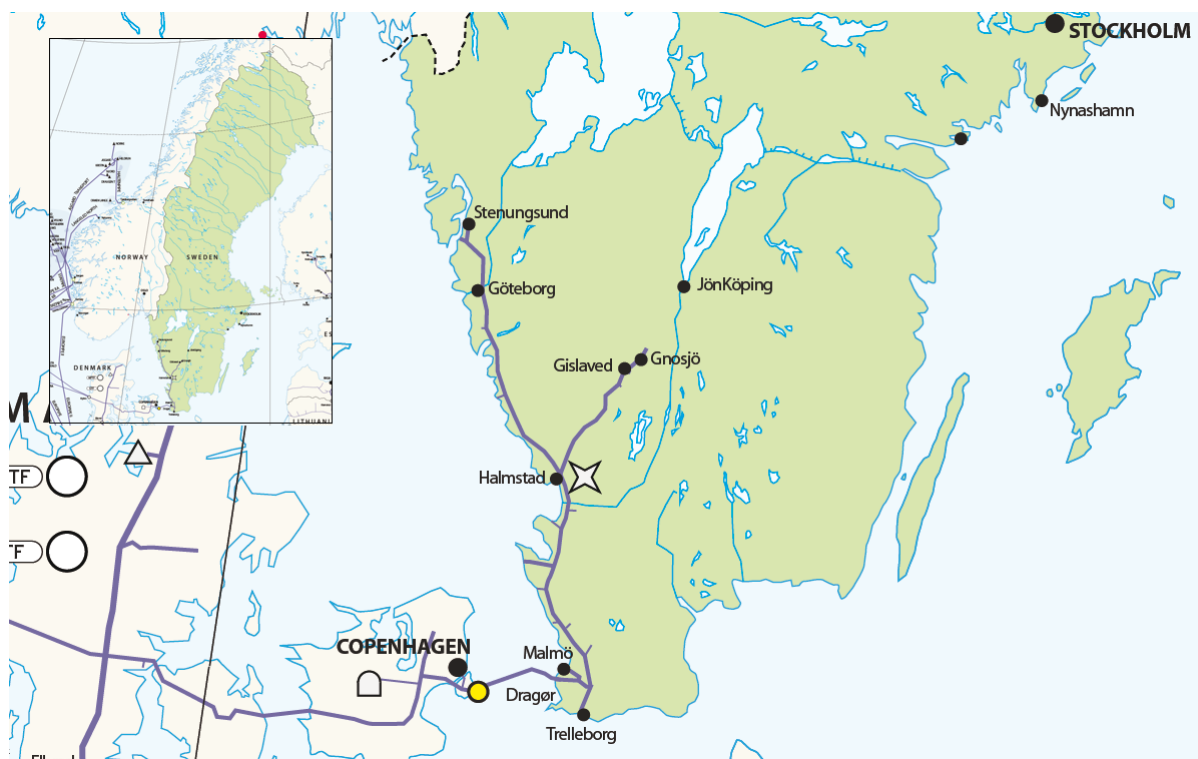
Total gas-fired generation power	22,120 MW (Source: Enagás)
Distribution systems SOs and total number of DSOs in the country	
Enagás and others	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 347 ○ Number of DSOs: 23
Virtual Trading Point	○ MS - ATR / Enagás
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 401,855 GWh ○ 2008: 449,389 GWh ○ 2007: 408,431 GWh

**The number of directly connected customers that are directly linked to CCGTs is 28; the total number of CCGTs in the Spanish system is 55 in groups of 400 MW*

Enagás S.A. (Sociedad Anónima) <i>Private Company listed on the stock exchange with approximately 70% of free float</i>		
Website:	www.enagas.es	
Current Publications	<ul style="list-style-type: none">○ Network Development Plan (mandatory) for the Spanish gas system is published every 4 years by the Ministry of Industry and Trade. An Annual Programme is developed every year updating the mandatory planning.○ Winter Outlook○ Strategic Plan	
Total length of the transmission network	9,236 km	
Total compressor power	413 MW	
Total transported energy (in gas) in 2009	422,535 GWh	


<p>Naturgas Energía Grupo S.A. (Sociedad Anónima)</p> <p><i>Private Company listed on the stock exchange</i></p>		 naturgas energia grupo edp
Website:	www.naturgasenergia.com	
Current Publications	-	
Total length of the transmission network	387 km	
Total compressor power	0 MW	
Total transported energy (in gas) in 2009	approx. 21,261 GWh	


Sweden



Existing Gas Infrastructure	
Number of TSOs	3 <i>(two with infrastructure and one responsible for system balancing)</i>
Total length of transmission network(s)	620 km
Total compressor power	0 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Swedegas	<ul style="list-style-type: none"> ○ Dragör /Energinet.dk (only marketed by Energinet.dk according to the legal CAM set in the Swedish Natural Gas Act) ○ All 23 connection points to E.ON Gas Sverige (only marketed to this company according to the legal CAM set in the Swedish Natural Gas Act)
E.ON Gas Sverige	<ul style="list-style-type: none"> ○ All connection points to Swedegas' transmission system (capacity is booked from Swedegas)

LNG terminals	
	○ N/A
Storage facilities*	
E.ON Gas Sverige	○ Skallen / E.ON Gas Sverige
Interconnected DSs	○ N/A
Production facilities	
	○ N/A
Directly connected customers	
Swedegas	<ul style="list-style-type: none"> ○ Total: 3 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 1
E.ON Gas Sverige	<ul style="list-style-type: none"> ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 1
Total gas-fired power generation	970 MW
Distribution systems SOs and total number of DSOs in the country	
Swedegas	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 7 ○ Number of DSOs: 2
E.ON Gas Sverige	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 32 ○ Number of DSOs: 3
Physical hubs and Virtual Trading Points	• N/A
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 14,009 GWh ○ 2008: 10,547 GWh ○ 2007: 11,619 GWh

Swedegas AB <i>(AB stands for joint-stock company)</i>		
Website	www.swedegas.se	
Current Publications	N/A	
Total length of the transmission network	390 km	
Total compressor power	0 MW	
Total transported energy (in gas) in 2009	14,014 GWh	

E.ON Gas Sverige		
Website	www.eon.se	
Current Publications	N/A	
Total length of the transmission network	230 km	
Total compressor power	0	
Total transported energy (in gas) in 2009	N/A	


Switzerland



Existing Gas Infrastructure	
Number of TSOs	8
Total length of transmission network(s)	2,220 km
Total compressor power	60 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
Transitgas	<ul style="list-style-type: none"> ○ Wallbach / TENP ○ Oltingue / GRTgaz ○ Griespass / Snam Rete Gas
LNG terminals	
	<ul style="list-style-type: none"> ○ N/A

Storage facilities	
	○ N/A
Production facilities	
	○ N/A
Directly connected customers	
	<ul style="list-style-type: none"> ○ Total: N/A ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: N/A
Total gas-fired power generation	100 MW
Distribution systems SOs and total number of DSOs in the country	
Erdgas Ostschweiz AG	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 65 ○ Number of DSOs: 12
Erdgas Zentralschweiz AG	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 7 ○ Number of DSOs: 3
Gasverbund Mittelland AG	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 76 ○ Number of DSOs: 15
GasNat SA	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 45 ○ Number of DSOs: 10
Aziende Industriali di Lugano SA	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 6 ○ Number of DSOs: 2
Ebrag	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 2 ○ Number of DSOs: 1
Physical hubs and Virtual Trading Points	○ N/A
Number of balancing zones	6
Demand	

Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 31,335 GWh ○ 2008: 32,648 GWh ○ 2007: 30,641 GWh
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Swissgas  <small>SCHWEIZERISCHE AKTIENGESELLSCHAFT FÜR ERDGAS SOCIÉTÉ ANONYME SUISSE POUR LE GAZ NATUREL SWISS COMPANY FOR NATURAL GAS LIMITED</small>	
Website	www.swissgas.ch
Current Publications	N/A
Total length of the transmission network	280 km
Total compressor power	0 MW
Total transported energy (in gas) in 2009	157,321 GWh

United Kingdom




Existing Gas Infrastructure	
Number of TSOs	2 (GB), 3 (Northern Ireland) & 2 (Offshore)
Total length of transmission network	8,380 km
Total compressor power	1,611 MW
Inter-TSO connections where capacity is marketed (incl. upstream operators)	
<p>National Grid Interconnectors</p> <p>Northern Ireland is connected to Great Britain via the Scotland Northern Ireland Pipeline (SNIP) and to The Republic of Ireland via the UK – Ireland Interconnectors.</p>	<ul style="list-style-type: none"> ○ Bacton / IUK Interconnector ○ Bacton / BBL Company ○ Moffat / BGE (UK) ○ Moffat / Gaslink
<p>National Grid: Norway</p> <p>Norwegian gas is transported to the UK (and Continental Europe) by a submarine transport system that is operated by Gassco.</p>	<ul style="list-style-type: none"> ○ St Fergus (Vesterled) / Gassco ○ Tampen Link & Gjøa / Ties into the Far North Liquids and Associated Gas System (FLAGS) which runs to St Fergus / Gassco ○ Easington (Langeled) / Gassco
IUK Interconnector	<p>Bacton / National Grid</p> <p>Zeebrugge / Fluxys</p>
BBL Company	<p>Bacton / National Grid</p> <p>Balgzand / GTS</p>
Premier Transmission	Tywnholm / Gaslink
Belfast Gas Transmission Limited	Carrickfergus / BGE(NI)
BGE (NI)	Carrickfergus / BGTL
BGE (UK)	Moffat / National Grid
LNG terminals	
National Grid	<ul style="list-style-type: none"> ○ Isle of Grain / Grain LNG ○ Milford Haven / South Hook LNG ○ Milford Haven / Dragon LNG ○ Teesside / Teesside GasPort (dockside LNG)


	vaporisation)
Storage facilities	
National Grid	<ul style="list-style-type: none"> ○ Rough / Southern North Sea ○ Hornsea / North East ○ Humbly Grove / South ○ Hatfield Moor / East Midlands ○ Holehouse Farm / North West ○ Aldbrough / North East ○ Avonmouth / South West ○ Glenmavis / Scotland ○ Partington / North West
Production facilities	
National Grid: Gas from the UK Continental Shelf is transported to the UK by a network of offshore pipelines that deliver the gas at the following terminals.	<ul style="list-style-type: none"> ○ St Fergus / Scotland ○ Teesside / North East ○ Easington / North East ○ Theddlethorpe / East Midlands ○ Bacton / Eastern ○ Barrow / North West ○ Burton Point / North West
Directly connected customers	
National Grid	<ul style="list-style-type: none"> ○ Total: 67 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 38
Premier Transmission	<ul style="list-style-type: none"> ○ Total: 1 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 1
BGE (NI)	<ul style="list-style-type: none"> ○ Total: 3 ○ Gas-fired power plants <ul style="list-style-type: none"> ▪ Number: 1


Total gas-fired power generation	34,811 MW
Distribution systems SOs and total number of DSOs in the country	
National Grid	<ul style="list-style-type: none"> ○ Number of physical TS-DS connections: 120 ○ Number of DSOs: 8
Belfast Gas Transmission Limited	<ul style="list-style-type: none"> ○ Number of DSOs: 1
BGE (NI)	<ul style="list-style-type: none"> ○ Number of DSOs: 1
Physical hubs and Virtual Trading Points	The National Balancing Point or NBP is a virtual point or location created in order to promote balancing. It is where shippers nominate their buys and sells and where National Grid Gas balances the system on a daily basis.
Number of balancing zones	1
Demand	
Historical annual gas demand of the national market (final customers)	<ul style="list-style-type: none"> ○ 2009: 910,546 GWh ○ 2008: 989,700 GWh ○ 2007: 952,813 GWh
Note: <u>Excludes</u> exports to Republic of Ireland and Continental Europe	


<p>National Grid plc</p> <p>Plc is an abbreviation of public limited company which is a type of limited liability company.</p> <p>National Grid plc's ordinary shares are listed on the London and New York Stock Exchanges.</p>			
Website	www.nationalgrid.com		
Current Publications	<ul style="list-style-type: none"> ○ 10-year Network Development Plan (mandatory) – The Ten Year Statement ○ Winter Outlook (voluntary) 	www.nationalgrid.com/uk/Gas/TYS/ www.nationalgrid.com/uk/Electricity/SYS/outlook/	


	<ul style="list-style-type: none"> ○ Summer Outlook (voluntary) www.nationalgrid.com/uk/Electricity/SYS/sumOutlook/
Total length of the transmission network (this excludes distribution)	7,880 km
Total compressor power	1,409 MW
Total transported energy (in gas) in 2009 (includes exports to Ireland and Continental Europe)	1,022,800 GWh

Interconnector (UK) Limited 	
Website	www.interconnector.com
Current Publications	○ Not applicable.
Total length of the transmission network (this excludes distribution)	153 (UK) km
Total compressor power	120 (UK) MW
Total transported energy (in gas) in 2009	69,793 GWh

Premier Transmission Limited 	
Website	www.premier-transmission.com
Current Publications	○ Not applicable.
Total length of the transmission network (this excludes distribution)	132 km
Total compressor power	0 MW
Total transported energy (in gas) in 2009	16 GWh

Belfast Gas Transmission Limited	
Website	www.premier-transmission.com
Current Publications	<ul style="list-style-type: none"> ○ Not applicable.
Total length of the transmission network (this excludes distribution)	38 km
Total compressor power	0 MW
Total transported energy (in gas) in 2009	9.8 GWh

BGE (NI)	
Website	www.bordgais.ie/networks/index.jsp?p=109&n=311
Current Publications	<ul style="list-style-type: none"> ○ The Joint Capacity Statement http://www.cer.ie/en/gas-capacity-statement.aspx
Total length of the transmission network (this excludes distribution)	220km
Total compressor power	0 MW
Total transported energy (in gas) in 2009	N/A

BGE (UK)	
Website	www.bordgais.ie/networks/index.jsp?p=109&n=311
Current Publications	○ Not applicable
Total length of the transmission network (this excludes distribution)	110 km
Total compressor power	82 MW
Total transported energy (in gas) in 2009	56,426 GWh

UNMIK (name as submitted: Kosova)

Existing Gas Infrastructure

Although a gas transmission pipeline exists within Kosovo, the system has not been used since 1986 and is totally out of operation and many parts of it are destroyed. The system previously supplied town gas, produced in Kastriot/Obilic, to Pristina, Mitrovica and Skopje in Macedonia. It should also be noted that the transmission system was not closed with the proper measures in the year 1986 i.e. purging and nitrogen filling. Consequently, widespread corrosion of the pipeline has occurred. Although initially designed for an operational pressure of 25 bar and yearly capacity of 0.2 bcm, the present owners of the pipeline, Kosovo power company KEK, report that the system has been almost completely damaged in several areas due to third party construction work on and around the pipeline.