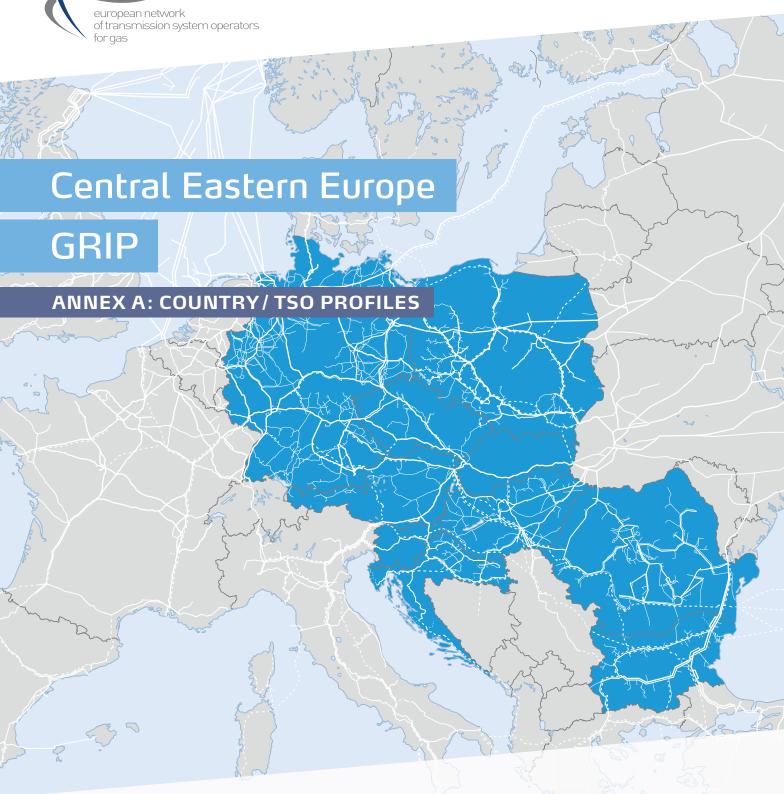


GAS REGIONAL INVESTMENT PLAN 2014-2023































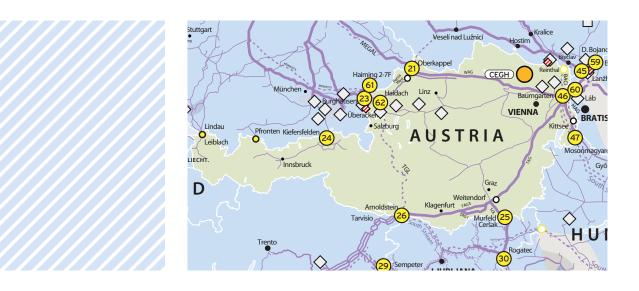








Austria



Existing Gas Infrastructure		
NUMBER OF TSOs	3	
TOTAL LENGTH OF TRANSMISSION NETWORK(S)	approx. 1,600 km	
TOTAL COMPRESSOR POWER	573 MW	
Inter-TSO connections where capacity is mar	keted (incl. upstream operators)	
GAS CONNECT AUSTRIA	— Baumgarten/Eustream (SK) — Mosonmagyarovar/FGSZ (HU) — Petržalka/eustream, a.s. (SK) — Murfeld/Geoplin plinovodi (SI) — Überackern ABG/Bayernets (DE) — Überackern SUDAL/Bayernets (DE)	
BOG	— Oberkappel/Open Grid Europe (DE) — Oberkappel/GRTgaz Deutschland (DE) — Baumgarten/Eustream (SK)	
TRANS AUSTRIA GASLEITUNG	– Baumgarten/Eustream (SK) – Tarvisio-Arnoldstein/Snam Rete Gas (IT)	
LNG terminals		
	N/A	
Storage facilities		
INTERCONNECTED DSOS (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.)	- Schönkirchen Reyersdorf/GAS CONNECT AUSTRIA - Tallesbrunn/GAS CONNECT AUSTRIA - Thann/GAS CONNECT AUSTRIA - Puchkirchen/RAG - Haidach 5/RAG - Haidach/RAG/Wingas/Gazprom Export - 1 virtual entry point from OMV Austria Exploration & Production - 1 virtual entry point from RAG	
Production facilities		
INTERCONNECTED DSS (All production facilities are connected to the DSO network.)	-1 virtual entry point from OMV Austria Exploration & Production -1 virtual entry point from RAG	
Directly connected customers		
	– Total: 0 – Gas-fired power plants: 0	
Physical TS-DS connections and total number of DSOs in the country		
GAS CONNECT AUSTRIA	Number of physical TS-DS connections: 1Number of DSOs: 1	

TRANS AUSTRIA GASLEITUNG	 Number of physical TS-DS connections: 10 Number of DSOs: 1
PHYSICAL HUBS AND VIRTUAL TRADING POINTS	- CEGH/CEGH
NUMBER OF BALANCING ZONES	1
Demand	
HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET (final customers)	2012: 91.204 TWh 2011: 95.634 TWh 2010: 102.016 TWh 2009: 91.542 TWh 2008: 93.228 TWh

Austria is one of the main transit countries for Russian gas dedicated to Europe. The main recipients have been Germany and western Europe, which are connected via the WAG and Penta West pipelines, Italy and Slovenia, which are connected via the TAG pipeline (and SOL pipeline respectively) and Hungary, connected via the HAG pipeline. The main IP of Baumgarten acted as a distribution platform, where gas coming along the Ukraine corridor from Slovakia, was transferred towards South-West and West. Also a major part of the Austrian inland demand used to be covered with Russian gas. At this time, the physical flow was east-west along the WAG respectively east-south along the TAG.

Starting in 2005, the WAG pipeline was step by step upgraded to physical reverse-flow ability, and in 2011, triggered by the disruption in January 2009, a physical exit capacity towards Slovakia of finally 700.000 m³(n)/h has been made available, thanks to a co-financing of the European Union (EEPR programme) the physical Reverse Flow Capacity has been upgraded to 925.000 m³(n)/h in 2013 with putting in Operation of the WAG Expansion 3 Project.

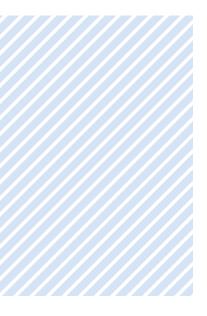
In 2011 the Penta West has been made reversible in direction Germany towards Austria. Also in 2011, the TAG pipeline has been upgraded to (partial) reversibility in order to be able to import North African gas via Italy.

Since the end of spring 2009, the reversibility of the WAG was used increasingly and gas flow direction changed from mainly being east-west oriented towards having a neutral point along the WAG pipeline, due mainly to increased imports of cheaper gas from German market (LNG price differential and development of hub trading). Although the Ukraine corridor is still a substantial physical supply source for Austria, the dependency of Austria on it has been reduced, not only serving Austrian interests, but also taking into consideration the supply situation of adjacent countries like Slovakia, Hungary or Slovenia in case of a new crisis.

From 01 January 2013 a new market model has been set into force in Austria, replacing the Point-to-Point principle by an Entry/Exit Model. Furthermore, capacities that have been sold on a "First-Come-First-Served" principle are being auctioned since 01 April 2013 via the European Auction Platform PRISMA Primary according to the CAM Network Code.

GAS CONNECT AUSTRIA GmbH		
WEBSITE	www.gasconnect.at	
CURRENT PUBLICATIONS	N/A	GAS CONNECT
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	170 km, Operated: approx. 1,600 km	AUSTRIA
TOTAL COMPRESSOR POWER	40 MW	
TOTAL TRANSPORTED ENERGY (in gas)	2012: 93.882 TWh	
BOG GmbH		
WEBSITE	www.bog-gmbh.at	7.6
CURRENT PUBLICATIONS	N/A	3•G
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	383.5 km	
TOTAL COMPRESSOR POWER	106 MW	
TOTAL TRANSPORTED ENERGY (in gas)	2012: 134.843 TWh	
Trans Austria Gasleitung GmbH		
WEBSITE	www.taggmbh.at	T.M.
CURRENT PUBLICATIONS	N/A	Trans Austria Gasleitung GmbH
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	approx. 1,140 km	
TOTAL COMPRESSOR POWER	approx. 475 MW	
TOTAL TRANSPORTED ENERGY (in gas)	2012: 280.799 TWh	







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 mark	keted (incl. upstream operators)	
BULGARTRANSGAZ	– Negru Voda I & II, III/Transgaz (RO) – Kula/Sidirokastron/DESFA (GR) – Malkoclar/BOTAS (TK) – Zidilovo/GA-MA (MK)	
LNG terminals		
	N/A	
Storage facilities		
The underground gas storage facility, which is owned and operated by Bulgartransgaz is connected to Bulgartransgaz network	UGS Chiren	
Production facilities		
Production facilities in Bulgaria are connected to Bulgartransgaz network in the following entry points:	– GMS Provadia – GRS Pleven	
Directly connected customers		
BULGARTRANSGAZ	– Total: 262 – Gas-fired power plants: 0	
Distribution systems SOs and total number of DSOs in the country		
BULGARTRANSGAZ	Number of physical TS-DS connections: 65Number of DSOs: 17	
PHYSICAL HUBS AND VIRTUAL TRADING POINTS	N/A	
NUMBER OF BALANCING ZONES	1	

Demand	
HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET (final customers)	2012: 35.296 TWh
(illial customers)	2011: 35.379 TWh
	2010: 31.678 TWh 2009: 28.182 TWh
	2008: 36.782 TWh
	2007 : 37.818 TWh

Gas infrastructure of Bulgartransgaz EAD on the territory of the Republic of Bulgaria consists of the national gas transmission network that ensures natural gas to the main part of the Bulgarian users, the gas transmission network for transit transmission ensuring chiefly natural gas transport to Turkey, Greece and Macedonia and the underground gas storage in Chiren (Chiren UGS), directly connected to the national gas transmission network.

NATIONAL GAS TRANSMISSION NETWORK

The national gas transmission network is built in a ring-shaped form of high pressure gas pipelines with a total length of 1,700 km, three compressor stations - CS Kardam-1, CS Valchi Dol and CS Polski Senovets with total installed capacity of 49 MW. cleaning facilities, electrochemical protection system. communications system - copper and optic fibre cables, 240 metering lines to connected users at 115 exit points (AGRS, GMS). Its technical transport capacity amounts to 7,4 bcm/year, and the maximum working pressure is 54 bar.

GAS TRANSMISSION NETWORK FOR TRANSIT TRANSMISSION

The transit gas transmission network comprises high pressure gas pipelines of total lentgh of 945 km with prevailing diameter of DN 1000, six compressor stations - CS Kardam-2, CS Provadia, CS Lozenets, CS Strandja, CS Ihtiman and CS Petrich, with total installed capacity of 214 MW, electrochemical protection system, cleaning facilities, communications system, information system and other ancillary facilities. Its total technical capacity for natural gas transit transmission amounts to 18,7 bcm/year and the maximum working pressure is 54 bar.

UNDERGROUND GAS STORAGE (UGS) CHIREN

The underground gas storage Chiren located near the city of Vratsa has 22 exploitation wells, a compressor station with a total installed capacity of 10 MW and other technological equipment required to secure the injection, withdrawal and quality of stored gas. The present storage capacity can provide storage for the needs of the home consumers up to 550 mcm³ natural gas. The withdrawal and injection capacity according to the formation pressures and other factors, is between 1 mcm³/day (minimum) to 4,2 cm³/day (maximum) for withdrawal, and 1,5 mcm³/day (minimum) to 3,5 mcm³/day (maximum) for injection.

Bulgartransgaz		
WEBSITE	www.bulgartransgaz.bg/en	A
CURRENT PUBLICATIONS	N/A	BULGARTRANSGAZ
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	2,645 km	
TOTAL COMPRESSOR POWER	Transmission: 263 MW Storage: 10 MW	
TOTAL TRANSPORTED ENERGY (in gas)	212.040 TWh	
UNBUNDLING MODEL	ITO	

Croatia



Existing Gas Infrastructure		
NUMBER OF TSOs	1	
TOTAL LENGTH OF TRANSMISSION NETWORK(S)	2,576 km	
TOTAL COMPRESSOR POWER	-	
Inter-TSO connections where capacity is mai	rketed (incl. upstream operators)	
PLINACRO	– Rogatec/Plinovodi (SLO) – Donji Miholjac (Dravaszerdehaly)/FGSZ (HU)	
LNG terminals		
	N/A	
Storage facilities		
PLINACRO	– PSP OKOLI / Podzemno skladište plina	
Production facilities		
PLINACRO	- CPS Molve (Durdevac)/INA - CPS Etan (Ivanic Grad)/INA - offshore platforms/Pula terminal/INA - Ferdinandovac/INA - Gola/INA - Hampovica/INA - Legrad/INA	
Directly connected customers		
PLINACRO	– Total: 24 – Gas-fired power plants: 5	
Distribution systems SOs and total number of DSOs in the country		
PLINACRO	Number of physical TS-DS connections: 157Number 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 2012: 29.7 TWh (final customers) 2011: 31.46 TWh 2010: 31.13 TWh

Network Overview

At the beginning of the new millennium, in compliance with EU Directive, the reform of the energy sector (and consequently, of the gas sector) in the Republic of Croatia started. On February 1, 2001 Plinacro Ltd was founded as a company for natural gas transmission and trade, at the beginning as a member of INA Group and 100 percent owned by INA.

In July 2001, the Government of the Republic of Croatia brought the package of energy acts, necessary for further reform of the energy sector. In compliance with new acts, primarily with the Energy Act, the gas transmission becomes an energy activity performed as a public service. On March 11, 2002 Plinacro became a 100 percent state-owned company. By establishing Plinacro Ltd, an organisation for introducing natural gas market liberalisation in compliance with EU Directive requirements was founded, providing its consumers with the possibility to choose from different suppliers and free access to the gas transmission system. The Committee for regulation of energy activities by their decision dated December 10, 2003 (class: UP/034-02/03-08/01, reg. no. 371-02/03-04), issued to Plinacro the licence for performance of energy activity - gas transmission, and thereby the company acquired all necessary preconditions for the performance of its main activity.

Since necessary preconditions for the implementation of the open energy market are development and infrastructure building, in April 2002, Plinacro prepared the Plan of Development, Construction and Modernisation of the Gas Transmission System of the Republic of Croatia from 2002 to 2011. The Plan was made on the basis of the Strategy of Energy Development of the Republic of Croatia approved by the Croatian Parliament in 2002.

Plinacro acquired 100% share in the company Podzemno skladište plina, the main activity of which is underground storage of gas - UGS Okoli on 30 April 2009.

The Plan of Development, Construction and Modernisation of the Gas Transmission System of the Republic of Croatia until 2011, implemented by Plinacro, was the largest investment project in the energy infrastructure.

Due to the long-term security of supply of consumers, Plinacro has been designing and developing its transmission system in such a way so it can be connected to and included in the international gas pipeline grid. Therefore significant means have been invested in the construction of the interconnections which are to connect the Croatian gas transmission system with the gas transmission systems of the neighbouring countries and in that way provide the diversification of supply and possibility for the transit of gas for these countries.

At the beginning of 2013 Plinacro operates 2,576 km of gas pipelines, 10 entry (2 of them are international import points and 1 is UGS) and 157 exit measuring-reduction stations. In 2012, maximum technical capacity of the system was 28.8 x 106m³/d (276 GWh/d), and the daily peak load of the transmission system was 16,621,000 m³/day (app. 6 bcm/y).

In 2012 the input of gas from the gas fields on the territory of the Republic of Croatia equalled 1,613 million m³ of gas which is 21.75% less compared to the same period in the previous year. As for the import, 1.059 million m³ of gas was imported through UMS Rogatec (Slovenia), that is, 30.6% more than in the same period previous year, and 296 million m³ of gas was imported through UMS Dravaszerdahely (Hungary), which is in comparison to the previous year increase of 364%.

In 2012 Croatia imported 49.4% of natural gas quantities needed for the Croatian market, 41.62% was provided from a domestic production and 8.97% from the UGS.

Plinacro drew up the first Ten Years Network Development Plan 2014–2023 by mid-2013.

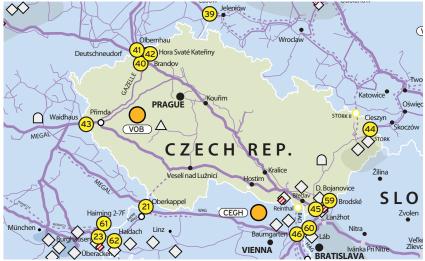
Croatia became an EU member on 1 July 2013.

In compliance with the Third energy package Plinacro commenced a certification procedure in May 2013. Plinacro has chosen the ownership unbundling model.

PLINACRO		
WEBSITE	www.plinacro.hr	01100660
CURRENT PUBLICATIONS	TYNDP 2014-2023	prinacio
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	2,576 km	
TOTAL COMPRESSOR POWER	-	
TOTAL TRANSPORTED ENERGY (in gas)	34.32 TWh	
UNBUNDLING MODEL	Ownership unbundling (OU)	

Czech Republic





Existing Gas Infrastructure	
NUMBER OF TSOs	1
TOTAL LENGTH OF TRANSMISSION NETWORK(S)	3,813 km
TOTAL COMPRESSOR POWER	297 MW
Inter-TSO connections where capacity is mark	keted (incl. upstream operators)
NET4GAS, S.R.O. Opal (DE)/Brandov (CZ) [OPAL NEL Transport GmbH (DE)/NET4GAS, s.r.o. (CZ)] Brandov (CZ)/Stegal (DE) [NET4GAS, s.r.o. (CZ)/GASCADE Gastransport GmbH (DE)] Olbernhau (DE)/Hora Svaté Kateřiny (CZ) [GASCADE Gastransport GmbH (DE)/NET4GAS, s.r.o. (CZ)]	- Waidhaus [NET4GAS, s.r.o. (CZ)/GRTgaz Deutschland GmbH & Open Grid Europe GmbH (DE)] - Hora Svaté Kateřiny (CZ)/Deutschneudorf (Sayda) (DE) [NET4GAS, s.r.o. (CZ)/ONTRAS Gastransport GmbH (DE)] - Cieszyn [NET4GAS, s.r.o. (CZ)/GAZ-SYSTEM S.A. (PL)] - Lanžhot [NET4GAS, s.r.o. (CZ)/eustream, a.s. (SK)]
LNG terminals	
	N/A
Storage facilities	
NET4GAS, S.R.O.	- UGS Háje/RWE Gas Storage, s.r.o. - UGS Dolní Dunajovice/RWE Gas Storage, s.r.o. - UGS Lobodice/RWE Gas Storage, s.r.o. - UGS Stramberk/RWE Gas Storage, s.r.o. - UGS Třanovice/RWE Gas Storage, s.r.o. - UGS Tvrdonice/RWE Gas Storage, s.r.o. - UGS Tvrdonice/RWE Gas Storage, s.r.o. - UGS Uhřice/MND Gas Storage, a.s. - UGS Dolní Bojanovice/SPP Bohemia, a.s. (currently used for Slovakia only)
Production facilities	
NET4GAS, S.R.O.	– No interconnected producer
DSO – JMP NET, S.R.O.	– 1 virtual entry/Moravské naftové doly, a.s. – 1 virtual entry/Česká naftařská společnost, s.r.o.
Directly connected customers	
NET4GAS, S.R.O.	– Total: 6 – Gas-fired power plants: 1

Distribution systems SOs and total number of DSOs in the country	
NET4GAS, S.R.O.	Number of physical TS-DS connections: 93Number of DSOs: 6
PHYSICAL HUBS AND VIRTUAL TRADING POINTS	virtual trading point is operated by OTE, a.s.
NUMBER OF BALANCING ZONES	1
Demand	
HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET	2012: 86.326 TWh
(final customers)	2011: 85.646 TWh
	2010: 95.138 TWh

NET4GAS, s.r.o. is the transmission system operator in the Czech Republic and ensures natural gas transmission over and into the Czech Republic.

The company was founded in accordance with the requirements of Directive 2003/55/EC which was implemented into the Energy Act. As of January 1, 2006, employees, assets, and activities related to the natural gas transmission were transferred from RWE Transgas, a.s. into the company.

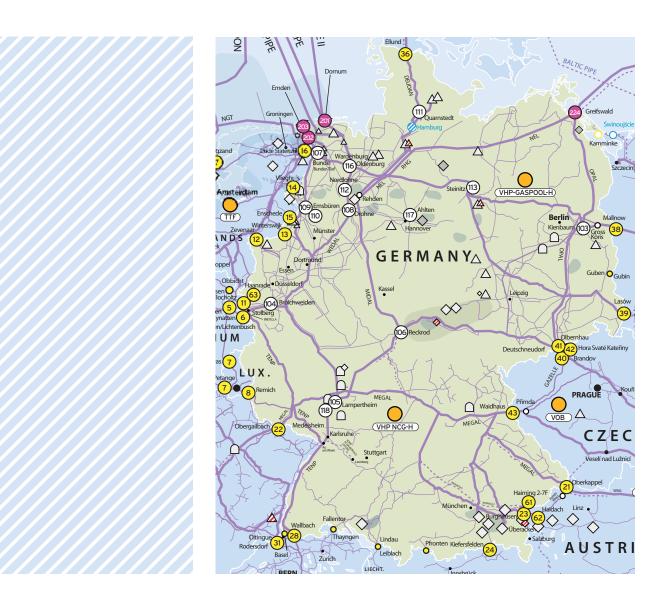
NET4GAS operates gas pipeline system in a total length of 3 813 km with nominal diameters from DN 80 to DN 1400 and with nominal pressures from 4 to 8.4 MPa. The required gas pressure in the pipelines is ensured through compressor stations with a spacing of approximately 100 km. On the northern branch there are CS Kralice nad Oslavou and Kouřim, on the southern branch CS Břeclav, Hostim, and Veselí nad Lužnicí. The total installed output power of the CS is 297 MW. The individual gas pipeline branches are interconnected at the key junction points Malešovice, Hospozín and Rozvadov.

At the entry to and the exit from the CZ the gas is being taken and handed over, i.e metered volume- and quality-wise at the border transfer stations between the CZ and the Slovak Republic at Lanžhot between the CZ and Germany at Hora Svaté Kateřiny - Sayda, Hora Svaté Kateřiny - Olbernhau, Waidhaus and Brandov. Between CR and Poland the gas is taken and handed over at the entry and exit at the BTS Cieszyn.

From the transmission system the gas is further supplied to the distribution systems, underground storage facilities and to the facilities of directly connected customers over 93 transfer stations. All transfer stations are equipped with commercial metering for natural gas volumes. Gas quality (gross calorific value) is measured at 22 node points within the system.

NET4GAS, s.r.o. (s.r.o. = společnost s ručením omezeným ≈ Limited liability company)		
WEBSITE	www.net4gas.cz	
CURRENT PUBLICATIONS	National Ten-Year Network Development Plan 2014–2023	NET4GAS
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	operates 3,813 km	
TOTAL COMPRESSOR POWER	297 MW	
TOTAL TRANSPORTED ENERGY (in gas)	355.318 TWh	
UNBUNDLING MODEL	ITO	

Germany



Existing Gas Infrastructure		
NUMBER OF TSOs	17	
TOTAL LENGTH OF TRANSMISSION NETWORK(S)	38,125 km	
TOTAL COMPRESSOR POWER	2,542 MW	
Inter-TSO cross-border connections where capacity is marketed (incl. upstream/downstream operators)		
BAYERNETS	— Überackern (Gas Connect Austria) — Überackern 2 (Gas Connect Austria) — VIP Kiefersfelden - Pfronten (exit zone to Austrian DSOs)	
FLUXYS DEUTSCHLAND	- Greifswald (Nord Stream)	
FLUXYS TENP	– Bocholtz (Gasunie TS) – Lichtenbusch/Raeren (Fluxys Belgium) – Wallbach (Swissgas & FluxSwiss)	
GASCADE GASTRANSPORT	 Brandov-Stegal (NET4GAS) Eynatten (Fluxys Belgium) Bunde (Gasunie TS) Mallnow (GAZ-SYSTEM (ISO)) Olbernhau (NET4GAS) 	

GASUNIE DEUTSCHLAND	 Bunde/Oude Statenzijl (H) (Gasunie TS) Bunde/Oude Statenzijl (L) (Gasunie TS) Emden (EPT1) (Gassco) Emden (MPT) (Gassco) Dornum (Gassco) Ellund (Energinet.dk)
GASUNIE OSTSEEANBINDUNGSLEITUNG	- Greifswald (Nord Stream)
GRTGAZ DEUTSCHLAND	– Medelsheim (GRTgaz) – Oberkappel (BOG) – Waidhaus (NET4GAS)
GTG NORD	- Bunde/Oude Statenzijl (L) (Gasunie TS)
JORDGAS TRANSPORT	- Dornum (Gassco)
LBTG	- Brandov (NET4GAS) - Greifswald (Nord Stream)
NEL GASTRANSPORT	- Greifswald (Nord Stream)
ONTRAS	Deutschneudorf (NET4GAS)Lasów (GAZ-SYSTEM)
OPAL GASTRANSPORT	- Brandov (NET4GAS) - Greifswald (Nord Stream)
OPEN GRID EUROPE	- Bocholtz (Gasunie TS) - Bunde (Gasunie TS) - Dornum (Gassco) - Ellund (Energinet.dk) - Emden (EPT1) (Gassco) - Emden (NPT) (Gassco) - Lichtenbusch / Raeren (Fluxys Belgium) - Kiefersfelden - Kufstein (TIGAS) - Medelsheim (GRTgaz) - Oberkappel (BOG) - Remich (CREOS Luxembourg) - Tegelen (Gasunie TS) - Burghausen (Gas Connect Austria) - Waidhaus (NET4GAS) - Wallbach (Swissgas & FluxSwiss) - Winterswijk (Gasunie TS) - Zevenaar (Gasunie TS)
TERRANETS BW	 RC Basel (Gasverbund Mittelland GVM) RC Lindau (Vorarlberger Energienetze VNe) RC Thayngen-Fallentor (Erdgas Ostschweiz EGO)
THYSSENGAS	- Bocholtz-Vetschau (Gasunie TS) - Emden (EPT1) (Gassco) - Emden (NPT) (Gassco) - Lichtenbusch/Raeren (Fluxys Belgium) - Haanrade (Gasunie TS) - Zevenaar (Gasunie TS)
Inter-TSO connections within Germany where (incl. upstream operators)	e firm capacity can be marketed
GASCADE GASTRANSPORT	– Reckrod < Open Grid Europe
GASUNIE DEUTSCHLAND	– Emsbüren-Berge < Thyssengas – Wardenburg RG < Open Grid Europe
GRTGAZ DEUTSCHLAND	- Gernsheim < GASCADE Gastransport
ONTRAS	– Steinitz < Open Grid Europe
OPEN GRID EUROPE	- Ahlten < Nowega - Bunder-Tief < Gasunie Deutschland - Drohne GUD / OGE < Gasunie Deutschland - Emsbüren RG < Gasunie Deutschland - Kienbaum < GASCADE Gastransport - Lampertheim I < GASCADE Gastransport - Nordlohne < Gasunie Deutschland - Steinitz < ONTRAS - Wardenburg RG < Gasunie Deutschland - Reckrod < GASCADE Gastransport
TERRANETS BW	– Lampertheim IV < GASCADE Gastransport
THYSSENGAS	Broichweiden Süd < GASCADE GastransportEmsbüren-Berge < Gasunie Deutschland
LNG terminals	
	None

Storage facilities	
BAYERNETS	 Haidach USP Haiming 2 7F - bayernets Inzenham-West USP Wolfersberg / USP
GASCADE GASTRANSPORT	— 1BQA Nüttermoor — 3070 Sp. Rehden — 1BMA Jemgum I — 1BRA Jemgum III
GASTRANSPORT NORD	– Zone UGS-EWE L-Gas
GASUNIE DEUTSCHLAND	- H096/H097 - UGS Dötlingen - H098/H099 - UGS Uelsen - H102/H103 - UGS Harsefeld - H152/H171 - UGS Etzel - H196/H197 - UGS Etzel ESG - H199/H200 - UGS Jemgum EWE - L131/L132 - UGS Lesum - L133/L134 - UGS Nüttermoor L
JORDGASTRANSPORT	– H152S/H171S - Etzel EGL – H196S/H197S - Etzel ESE – H203S/H204S - Etzel EKB
NOWEGA	- Empelde
OGE	- Friedeburg-Etzel, Bitzenlander Weg 2 - Friedeburg-Etzel, Bitzenlander Weg 3 - Friedeburg-Etzel, Bitzenlander Weg 4 - Speicher Bierwang - Speicher Breitbrunn - Speicher Epe H - Speicher Epe L - Speicher Eschenfelden - Speicher Etzel - Speicher Gronau-Epe H1 - Speicher Gronau-Epe L1 - Speicher Gronau-Epe L2 - Speicher Hähnlein - Speicher Inzenham West - Speicher Krummhörn - Speicher Stockstadt
ONTRAS	UGS Bad Lauchstädt UGS Bernburg UGS Buchholz UGS Katharina UGS Kirchheilingen UGS Kraak UGS Stabfurt
TERRANETS BW	 Fronhofen 1 RC Speicher Fronhofen RC Speicher Sandhausen Sandhausen 1
THYSSENGAS	– Jemgum I – KGE Epe – Nüttermoor H – RWE Epe – RWE Kalle – RWE Xanten – Trianel Epe
Production facilities	
GASTRANSPORT NORD	– EZONE-SDS
GASUNIE DEUTSCHLAND	- H072 - Groothusen - H073 - Leer EGM - H075 - Visselhövede MEEG - H076 - Imbrock - H078 - Dötlingen UE H - H153 - Bahnsen - L112 - Dötlingen UE L - L115 - Lehringen RI Luttum - L115 - Lehringen RI Voigtei - L118 - Husum - L119 - Voigtei - L119 - Voigtei - L120 - Unterlüß LL - L121 - Thoense H - L141 - Schneeren - L165 - Thoense L
NOWEGA	- Schneeren - Zone Produktion
OGE	- Steinbrink Produktion

Directly connected customers			
TOTAL GERMANY	– Total: approx. 400 – Gas-fired power plants: approx. 50		
Physical TS-DS connections and total number of DSOs in the country			
TOTAL GERMANY	Number of physical TS-DS connections: approx. 1,800Number of DSOs: approx. 700		
PHYSICAL HUBS AND VIRTUAL TRADING POINTS	2 Virtual Trading Points: GASPOOL and NCG		
NUMBER OF BALANCING ZONES	2		
Demand			
HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET	2012: 910 TWh		
(final customers)	2011: 897 TWh		
	2010: 977 TWh		
TOTAL TRANSPORTED ENERGY (in gas)	2012: 1.679 TWh		
Network Overview			

The German transmission system incorporates an H-Gas and an L-Gas grid described in the next two sections.

H-GAS GRID

In the past, most of the gas used in the northern part of this supply area (Schleswig-Holstein, Hamburg) came from Danish fields. With capacity on the rise, however, Denmark has more recently relied heavily on imports from Germany via Ellund (station).

The adjacent region extends from entry points on the North Sea and systems supplying gas from Schleswig-Holstein, Saxony-Anhalt and Thuringia, along with import points and, in part, export points to the south (Czech Republic, Austria) and to the west (Netherlands and Belgium) as far as export points to France and Switzerland.

Major imports reach the area from northwestern Germany and through grids situated to the east and northeast. The main direction of flow then is from the northeast to the southwest. More import points from the western transmission grid are located around Aachen so that supplies from the Netherlands and Belgium may reach Germany through Bocholtz and Eynatten/Raeren, with the latter also serving as an exit point.

The southern portion handles large import volumes from the Czech Republic and Austria as well as export volumes through cross-border points on the French, Swiss and Austrian borders with a transmission grid that has both transit and supply functions.

The eastern part of the supply area (Mecklenburg-Vorpommern, Brandenburg, Saxony-Anhalt, Saxony, Thuringia, Berlin) imports gas via Poland in the east, the Baltic in the northeast, the Czech Republic in the south and, partly, from western Germany. Here again the transmission grid has both transit and supply functions.

L-GAS GRID

These northern transmission systems were built around existing fields in Germany (mostly Elbe/Weser, Weser/Ems) and the Netherlands (Groningen field) from where gas is imported via Oude Statenzijl station. These sources have remained the only ones in the area to this day. Storages with structuring and peak shaving functions are located at Nüttermoor, Huntorf, Lesum and Empelde. The grid has been designed to supply customers from these sources and has limited flexibility.

The western L-Gas grid with its various levels primarily supplies end users. With large numbers of domestic customers, gas sales largely fluctuate with temperatures. Load cases result not only from use as designed but also in intermediate and low-load situations when flexibility on the inlet side is considerable. System supply is through imports from the Netherlands and from German sources in the north. Storages with structuring and peak shaving functions are located at Epe.

GASCADE Gastransport GmbH		
WEBSITE	www.gascade.de	
CURRENT PUBLICATIONS	http://www.gascade.de/index.php? id=presseinformationen	GASCADE
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	2,300 km	
TOTAL COMPRESSOR POWER	490 MW	
TOTAL TRANSPORTED ENERGY (in gas)	See country profil for Germany	
UNBUNDLING MODEL	ITO	
Gasunie Deutschland Transport Services Gml	bН	

Gasunie Deutschland Transport Services GmbH			
WEBSITE	www.gasunie.de	(26.010	
CURRENT PUBLICATIONS	Draft German Network Development Plan 2014 under www.fnb-gas. de/de/netzentwicklungsplan/ nep-2014/nep-2014.html	crossing borders in energy	
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	3,235 km		
TOTAL COMPRESSOR POWER	158 MW		
TOTAL TRANSPORTED ENERGY (in gas)	See country profil for Germany		
UNBUNDLING MODEL	ITO		

Gasunie Ostseeanbindungsleitung GmbH		
WEBSITE	www.goal-tso.de	a02
CURRENT PUBLICATIONS	Draft German Network Development Plan 2014 under www.fnb-gas. de/de/netzentwicklungsplan/ nep-2014/nep-2014.html	guar_
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	approx. 440 km	
TOTAL COMPRESSOR POWER	0 MW	
TOTAL TRANSPORTED ENERGY (in gas)	See country profil for Germany	
UNBUNDLING MODEL	ITO	

GRTgaz Deutschland GmbH		
WEBSITE	www.grtgaz-deutschland.de	
CURRENT PUBLICATIONS	Draft German Network Development Plan 2014 under www.fnb-gas. de/de/netzentwicklungsplan/ nep-2014/nep-2014.html	GR'/gaz Deutschland
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	1,161 km (pipe in pipe model with Open Grid Europe)	
TOTAL COMPRESSOR POWER	296 MW (pipe in pipe model with Open Grid Europe) (ISO, including emergency units)	
TOTAL TRANSPORTED ENERGY (in gas)	See country profil for Germany	
UNBUNDLING MODEL	ITO	

ONTRAS Gastransport GmbH		
WEBSITE	www.ontras.com	
CURRENT PUBLICATIONS	Draft German Network Development Plan 2014 under www.fnb-gas. de/de/netzentwicklungsplan/ nep-2014/nep-2014.html	ontras Gastransport GmbH
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	7,249 km	
TOTAL COMPRESSOR POWER	38 MW	
TOTAL TRANSPORTED ENERGY (in gas)	See country profil for Germany	
UNBUNDLING MODEL	ITO	

Open Grid Europe GmbH		
WEBSITE	www.open-grid-europe.com	Open Grid Europe
CURRENT PUBLICATIONS	Please find the current German wide network development plans and consultation documents under www.fnb-gas.de/en	Open Grid Europe The Gas Wheel
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	approx. 12,000 km	
TOTAL COMPRESSOR POWER	approx. 1,000 MW	
TOTAL TRANSPORTED ENERGY (in gas)	See country profile for Germany	
UNBUNDLING MODEL	ITO	
terranets bw GmbH		
WEBSITE	www.terranets-bw.de	
CURRENT PUBLICATIONS	Please find the current German wide network development plans and consultation documents under www.fnb-gas.de/en	terranets bw
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	1,965 km	
TOTAL COMPRESSOR POWER	33 MW	
TOTAL TRANSPORTED ENERGY (in gas)	See country profile for Germany	
IINRIINNI ING MODEI	ITO	







Existing Gas Infrastructure		
NUMBER OF TSOs	1	
TOTAL LENGTH OF TRANSMISSION NETWORK(S)	5,784 km	
TOTAL COMPRESSOR POWER	233 MW	
Inter-TSO connections where capacity is mar	keted (incl. upstream operators)	
FGSZ	 Beregdaróc/Ukrtansgas (UA>HU) Beregdaróc/Ukrtansgas (HU>UA) Mosonmagyaróvár/Gas Connect Austria (AT) Kiskundorozsma/Srbijagas (RS) Csanádpalota/Transgaz (RO) Drávaszerdahely/Plinacro (HR) 	
LNG terminals		
	N/A	
Storage facilities		
FGSZ	 Zsana/Hungarian Gas Storage Hajdúszoboszló/Hungarian Gas Storage Pusztaederics/Hungarian Gas Storage Kardoskút/Hungarian Gas Storage Szőreg-I/MMBF 	
Production facilities		
FGSZ	- Algyő III "0" point/MOL - Babócsa "0" point/MOL - Endrőd "0" point/MOL - Hajdúszoboszló "0" point/MOL - Karcag II (Bucsa) "0" point/MOL - Varcag II (Bucsa) "0" point/MOL - Pusztaederics "0" point/MOL - Szank "0" point/MOL - Kardoskút regional/MOL - Kenderes II inert "0" point/MOL - Babócsa regional/MOL - Tiszavasvári II "0" point/HHE North	
Directly connected customers		
FGSZ	– Total: 39 – Gas-fired power plants: 14	

Distribution systems SOs and total number of DSOs in the country		
FGSZ	Number of physical TS-DS connections: 361Number of DSOs: 9	
PHYSICAL HUBS AND VIRTUAL TRADING POINTS	– MGP I/FGSZ – MGP II/FGSZ	
NUMBER OF BALANCING ZONES	1	
Demand		
HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET (final customers)	2012: 111.950 TWh	
(illial custollers)	2011: 121.684 TWh	
	2010: 131.233 TWh	
Network Overview		
N/A		

FGSZ Ltd. (Natural Gas Transmission Company Limited by Shares)		
WEBSITE	www.fgsz.hu	_
CURRENT PUBLICATIONS	— 10-year Network Development Plan (voluntary) — Winter Outlook (voluntary) — Summer Outlook (voluntary)	FGSZ LTD. NATIBLE CASTRANSMISSON NATIBLE OF THE NO. CICION
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	5,784 km	
TOTAL COMPRESSOR POWER	233 MW	
TOTAL TRANSPORTED ENERGY (in gas)	173.145 TWh	
UNBUNDLING MODEL	ITO	

Poland



Existing Gas Infrastructure	
NUMBER OF TSOs	1
TOTAL LENGTH OF TRANSMISSION NETWORK(S)	10,077 km — transmission network 680 km — Yamal-Europe pipeline (GAZ-SYSTEM S.A. fulfils the function of ISO)
TOTAL COMPRESSOR POWER	140.6 MW — transmission network 400 MW — Yamal-Europe pipeline
Inter-TSO connections where capacity is mark	ceted (incl. upstream operators)
GAZ-SYSTEM S.A.	- Lasów/Ontras (DE) - Cieszyn/NET4GAS (CZ) - Drozdowicze/Ukrtransgaz (UA) - Wysokoje/Gazprom Bieltransgaz (BY) - Tietierówka/Gazprom Bieltransgaz (BY) - Kondratki/Gazprom Bieltransgaz (BY) - Mallnow/Gascade (DE) - Lwówek/GAZ-SYSTEM S.A ISO - Włocławek/GAZ-SYSTEM S.A ISO
LNG terminals	
	N/A
Storage facilities	
GAZ-SYSTEM S.A.	- Swarzów/PGNiG - Strachocina/PGNiG - Brzeźnica/PGNiG - Husów/PGNiG - Wierzchowice/PGNiG - Mogilno/PGNiG - Daszewo (Low-Methane Gas)/PGNiG - Bonikowo (Low-Methane Gas)/PGNiG - Mikstat/DPV Service Sp. z o.o.

Production facilities		
GAZ-SYSTEM S.A.	– Sanok/PGNiG – Zielona Góra/PGNiG – Odolanów/PGNiG	
Directly connected customers		
GAZ-SYSTEM S.A.	– Total: 74 – Gas-fired power plants: 7	
Distribution systems SOs and total number of DSOs in the country		
GAZ-SYSTEM S.A.	Number of physical TS-DS connections: 879Number of DSOs: 17	
PHYSICAL HUBS AND VIRTUAL TRADING POINTS	1	
NUMBER OF BALANCING ZONES	2	
Demand		
HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET (final customers)	2012: 165.1 TWh 2011: 161 TWh 2010: 159 TWh	

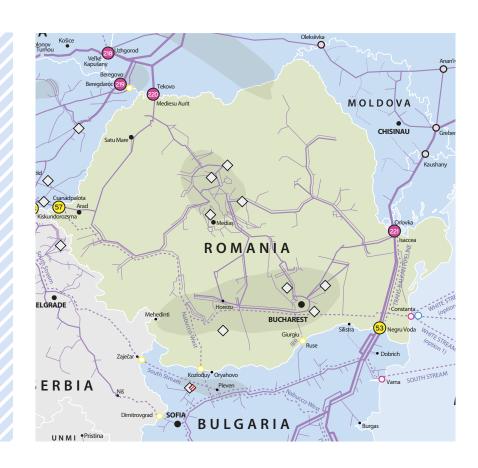
Gas Transmission Operator GAZ-SYSTEM S.A. is the company responsible for the transportation of natural gas and the operation of the transmission network in Poland. GAZ-SYSTEM S.A. operates on the basis of a licence issued by the President of the Energy Regulatory Office (ERO) which is valid until 2030. In addition, the company performs the function of an independent system operator (ISO) of the Polish section of the Yamal pipeline.

The transmission system in Poland consists of pipelines with the length of 10,077 km. There are two types of gas transported in the network operated by GAZ-SYSTEM S.A: high-methane natural gas and low calorific natural gas. The high-methane natural gas system covers the whole territory of Poland and serves for the transmission of both imported gas and gas produced in the South-East of Poland. The system is also supplied from high-methane natural gas group E by means of the natural gas mixing facilities in Odolanów and Grodzisk. The network is connected to the Yamal pipeline via the points in Lwówek and Włocławek. The low calorific gas system is located in the Lubusz, Grater Poland and Lower Silesia regions in the West of Poland. The network is supplied by production facilities located in this area.

GAZ-SYSTEM S.A. is currently implementing a wide investment plan. The company is building LNG terminal in Świnoujście (via its SPV, Polskie LNG) and more than 1,000 km of new gas pipelines that will be commissioned in 2014. The most important pipelines will be situated in north-western and central Poland. The development of these investment tasks will enable to foster Poland's energy security through the creation of technical conditions to diversify the natural gas supply. These activities are also conducive to the further liberalisation of the gas market in Poland and enhancement of its competitiveness. In the mid-term perspective (until 2018 and 2023), GAZ-SYSTEM S.A. plans to commission projects aimed at enhancing the transmission system in Poland and constructing new cross-border interconnections with adjacent systems.

Gas Transmission Operator GAZ-SYSTEM S.A.		
WEBSITE	www.gaz-system.pl	
CURRENT PUBLICATIONS	N/A	O S S S S S S S S S S S S S S S S S S S
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	10,077 km — transmission network 680 km — Yamal-Europe pipeline (GAZ-SYSTEM S.A. fulfils the function of ISO)	
TOTAL COMPRESSOR POWER	140.6 MW	
TOTAL TRANSPORTED ENERGY (in gas)	170.7 TWh	
UNBUNDLING MODEL	ownership unbundling	

Romania



Existing Gas Infrastructure	
NUMBER OF TSOs	1
TOTAL LENGTH OF TRANSMISSION NETWORK(S)	13,138 km
TOTAL COMPRESSOR POWER	32 MW
Inter-TSO connections where capacity is mark	reted (incl. upstream operators)
SNTGN TRANSGAZ SA	- Csanádpalota/FGSZ (HU) - Negru Voda I/Bulgartransgaz (BG) - Negru Voda II/Bulgartransgaz (BG) - Negru Voda III/Bulgartransgaz (BG) - Negru Voda III/Bulgartransgaz (UA) - Isaccea Import/Ukrtransgaz (UA) - Isaccea I/Ukrtransgaz (UA) - Isaccea II/Ukrtransgaz (UA) - Isaccea II/Ukrtransgaz (UA) - Isaccea III/Ukrtransgaz (UA)
LNG terminals	
	N/A
Storage facilities	
SNTGN TRANSGAZ SA	- Underground Storage Sarmas/Sarmas (RO)/SNGN Romgaz SA - Underground Storage Balaceanca/Balaceanca (RO)/SNGN Romgaz SA - Underground Storage Bilciuresti/Bilciuresti (RO)/SNGN Romgaz SA - Underground Storage Cetatea de Balta/Cetatea de Balta (RO)/SNGN Romgaz SA - Underground Storage Ghercesti/Ghercesti (RO)/SNGN Romgaz SA - Underground Storage Urziceni/Urziceni (RO)/SNGN Romgaz SA - Underground Storage Tg. Mures/Tg. Mures (RO)/DEPOMURES SA

Production facilities		
SNTGN TRANSGAZ SA	 85 entry points/Romanian territory/SNGN Romgaz SA 43 entry points/Romanian territory/OMV Petrom SA 7 entry points/Romanian territory/Amromco Energy SRL 1 entry point/Romanian territory/SC Raffles Energy SRL 1 entry point/Romanian territory/Lotus Petrol SRL 	
Directly connected customers		
SNTGN TRANSGAZ SA	– Total: 232 – Gas-fired power plants: 18	
Distribution systems SOs and total number of DSOs in the country		
SNTGN TRANSGAZ SA	Number of physical TS-DS connections: 870Number of DSOs: 39	
PHYSICAL HUBS AND VIRTUAL TRADING POINTS	N/A	
NUMBER OF BALANCING ZONES	1	
Demand		
HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET (final customers)	2012: 130.466 TWh 2011: 136.133 TWh 2010: 131.006 TWh	
Network Overview		
N/A		

SNTGN Transgaz SA		
WEBSITE	www.transgaz.ro	
CURRENT PUBLICATIONS	10 Year Network Development Plan	TRANSGAZ
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	13,138 km	MAGISTRALA ENERGIEI
TOTAL COMPRESSOR POWER	32 MW	
TOTAL TRANSPORTED ENERGY (in gas)	156.297 TWh	
UNBUNDLING MODEL	ISO	

Slovakia





Existing Gas Infrastructure	
NUMBER OF TSOs	1
TOTAL LENGTH OF TRANSMISSION NETWORK(S)	2,255 km
TOTAL COMPRESSOR POWER	700 MW
Inter-TSO connections where capacity is mar	keted (incl. upstream operators)
EUSTREAM	 Veľké Kapušany - Ukrtransgaz (AU)/Eustream (SK) Baumgarten - Eustream (SK)/Gas Connect Austria, BOG, Trans Austria Gasleitung (AT) Lanžhot - Eustream (SK)/Net4Gas (CZ)
LNG terminals	
	N/A
Storage facilities	
EUSTREAM	 NAFTA a.s. (NAFTA is also connected to the DSO – SPP-distribucia, a.s.) POZAGAS a.s. (not connected to the Eustream transmission system)
Production facilities	
EUSTREAM	- NAFTA a.s. (NAFTA is also connected to the DSO - SPP-distribucia, a.s.)
Directly connected customers	
EUSTREAM	-
Distribution systems SOs and total number o	f DSOs in the country
EUSTREAM	Number of physical TS-DS connections: 8Number of DSOs: 53
PHYSICAL HUBS AND VIRTUAL TRADING POINTS	1
NUMBER OF BALANCING ZONES	1
Demand	
HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET (final customers)	2012: 53.5 TWh 2011: 57.9 TWh 2010: 60.6 TWh

Since 1972, Eustream has secured the transmission of more than 2 trillion (2,128,000,000,000) cubic meters of natural gas across the territory of the Slovak Republic. The company therefore successfully continues in the tradition of the Slovak gas industry, which dates back over 150 years.

The annual capacity of the transmission system operated and maintained by Eustream is 73 billion cubic meters, which equals roughly 15 times the overall domestic gas consumption of the Slovak Republic. This demonstrates how a large part of our work concerns international gas transit. In 2012, we actually transported 56.5 billion cubic meters of gas.

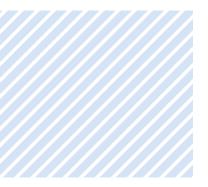
Thanks to the continual modernization and upgrade of infrastructure, Eustream contributes to ensuring safe and reliable gas supplies to Central and Western Europe whilst doing its utmost to reduce the environmental impact of its activities. In this respect, one of the main challenges we face is to cut carbon emissions produced at the four gas compressor stations we operate.

Eustream allows access to the gas transmission network and offers its customers a wide range of transmission services on a transparent and non-discriminatory basis. The access regime is in full compliance with existing legislation and gas industry standards. The business partners of Eustream include major energy companies from EU and non-EU member states.

Of course, with the Russian-Ukrainian gas crisis in January 2009, European gas history has had to be rewritten and also Eustream, in close co-operation with adjacent network operators, is currently reviewing gas flow directions and cross-border capacities in order to enhance further the security of gas supplies to Europe.

Eustream		
WEBSITE	www.eustream.sk	
CURRENT PUBLICATIONS	Annual reports	eustream
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	2,255 km	SLOVAK GAS TSO
TOTAL COMPRESSOR POWER	700 MW	
TOTAL TRANSPORTED ENERGY (in gas)	590 TWh/a	
UNBUNDLING MODEL	ITO	

Slovenia





NUMBER OF TSOS TOTAL LENGTH OF TRANSMISSION NETWORK(S) 1.094 km Inter-TSO connections where capacity is marketed (incl. upstream operators) PLINOVODI D.O.O. - Murfeld/Cersak - GAS CONNECT AUSTRIA - Rogatec - Plinacro (HR) - Gorizia / Sempeter - Snam Rete Gas (I) LNG terminals N/A Storage facilities INTERCONNECTED DSOS N/A Production facilities INTERCONNECTED DSS N/A Directly connected customers PLINOVODI D.O.O. - Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O. - Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET 2012: 9.140 TWih	Existing Gas Infrastructure	
TOTAL COMPRESSOR POWER Inter-TSO connections where capacity is marketed (incl. upstream operators) PLINOVODI D.O.D. - Murfeld / Ceršak - GAS CONNECT AUSTRIA - Rogatec - Plinacro (IRR) - Gorizia / Sempeter - Snam Rete Gas (I) LNIG terminals N/A Storage facilities INTERCONNECTED DSOS N/A Production facilities INTERCONNECTED DSS N/A Directly connected customers PLINOVODI D.O.D. - Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.D. - Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	NUMBER OF TSOs	1
Inter-TSO connections where capacity is marketed (incl. upstream operators) PLINOVODI D.O.D Murfeld/Ceršak - GAS CONNECT AUSTRIA - Rogatec - Plinacro (HR) - Gorizia/Šempeter - Snam Rete Gas (I) LNG terminals N/A Storage facilities INTERCONNECTED DSOS N/A Production facilities INTERCONNECTED DSS N/A Directly connected customers PLINOVODI D.O.D Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.D Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1	TOTAL LENGTH OF TRANSMISSION NETWORK(S)	1.094 km
PLINOVODI D.O.O. - Murfeld/Ceršak - GAS CONNECT AUSTRIA - Rogatec - Plinacro (HR) - Gorizia/Sempeter - Snam Rete Gas (I) LNG terminals N/A Storage facilities INTERCONNECTED DSOS N/A Production facilities INTERCONNECTED DSS N/A Directly connected customers PLINOVODI D.O.O. - Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O. - Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	TOTAL COMPRESSOR POWER	16 MW
- Rogatec - Plinacro (HR) - Gorizia / Sempeter - Snam Rete Gas (I) LNG terminals N/A Storage facilities INTERCONNECTED DSOS N/A Production facilities INTERCONNECTED DSS N/A Directly connected customers PLINOVODI D.O.O. - Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O. - Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	Inter-TSO connections where capacity is mar	keted (incl. upstream operators)
N/A Storage facilities INTERCONNECTED DSOS N/A Production facilities INTERCONNECTED DSS N/A Directly connected customers PLINOVODI D.O.O Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	PLINOVODI D.O.O.	- Rogatec - Plinacro (HR)
INTERCONNECTED DSOS N/A Production facilities INTERCONNECTED DSS N/A Directly connected customers PLINOVODI D.O.O Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	LNG terminals	
INTERCONNECTED DSOS Production facilities INTERCONNECTED DSS N/A Directly connected customers PLINOVODI D.O.O. - Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O. - Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand		N/A
Production facilities INTERCONNECTED DSS N/A Directly connected customers PLINOVODI D.O.O Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	Storage facilities	
INTERCONNECTED DSS Directly connected customers PLINOVODI D.O.O. - Total: 151 - Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O. - Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	INTERCONNECTED DSOS	N/A
Directly connected customers PLINOVODI D.O.O. — Total: 151 — Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O. — Number of physical TS-DS connections: 107 — Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	Production facilities	
PLINOVODI D.O.O. — Total: 151 — Gas-fired power plants: 2 Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O. — Number of physical TS-DS connections: 107 — Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	INTERCONNECTED DSS	N/A
Distribution systems SOs and total number of DSOs in the country PLINOVODI D.O.O. - Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	Directly connected customers	
PLINOVODI D.O.O. - Number of physical TS-DS connections: 107 - Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	PLINOVODI D.O.O.	
- Number of DSOs: 16 PHYSICAL HUBS AND VIRTUAL TRADING POINTS N/A NUMBER OF BALANCING ZONES 1 Demand	Distribution systems SOs and total number o	f DSOs in the country
NUMBER OF BALANCING ZONES 1 Demand	PLINOVODI D.O.O.	
Demand	PHYSICAL HUBS AND VIRTUAL TRADING POINTS	N/A
	NUMBER OF BALANCING ZONES	1
HISTORICAL ANNUAL GAS DEMAND OF THE NATIONAL MARKET 2012: 9.140 TWh	Demand	
(final customers) 2011: 9.556 TWh 2010: 11.057 TWh		2011: 9.556 TWh

Slovenian gas transmission system is connected through 3 interconnection points to the Austrian, Italian and Croatian gas transmission system. There is no interconnection between Slovenia and Hungary yet.

Regarding the importance of the gas infrastructure projects, from the viewpoint of the development of the national gas market, harmonization with international projects and safety updates, the system operator divides planned gas infrastructure into 4 groups:

- The first group are priority projects that represent the backbone of the Slovenian transmission system and without which it would not be possible to connect larger industrial consumers or thermo-energetic objects.
- The second group are projects for cross-border gas transmission, which are included in international projects for diversified supply of the European gas market from different production sources in Russia, the Middle East and from LNG terminals.
- The third and fourth group include new construction connecting the gas transmission system with new municipalities and other gas consumers, also including projects that are intended to locally increase the capacity of the transmission system and the security of supply.

Plinovodi d.o.o.		
WEBSITE	www.plinovodi.si/	
CURRENT PUBLICATIONS	N/A	Plinovodi
TOTAL LENGTH OF THE TRANSMISSION NETWORK (this excludes distribution)	1,094 km	Connected through energy
TOTAL COMPRESSOR POWER	16 MW	
TOTAL TRANSPORTED ENERGY (in gas)	19.390 TWh/year 2012	
UNBUNDLING MODEL	ITO	



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