



# KEY FIGURES

(AS AT END OF 2015)

**GRTgaz** is one of Europe's leading natural gas transmission companies and a world expert in gas grids and transmission systems.

In France, GRTgaz owns and operates 32,320 km underground pipelines and 27 compressor stations to transmit natural gas between suppliers and consumers (distributors or industrial firms directly connected to the transmission system). GRTgaz performs a public service

role in guaranteeing security of supply to consumers and sells transmission services to system users.

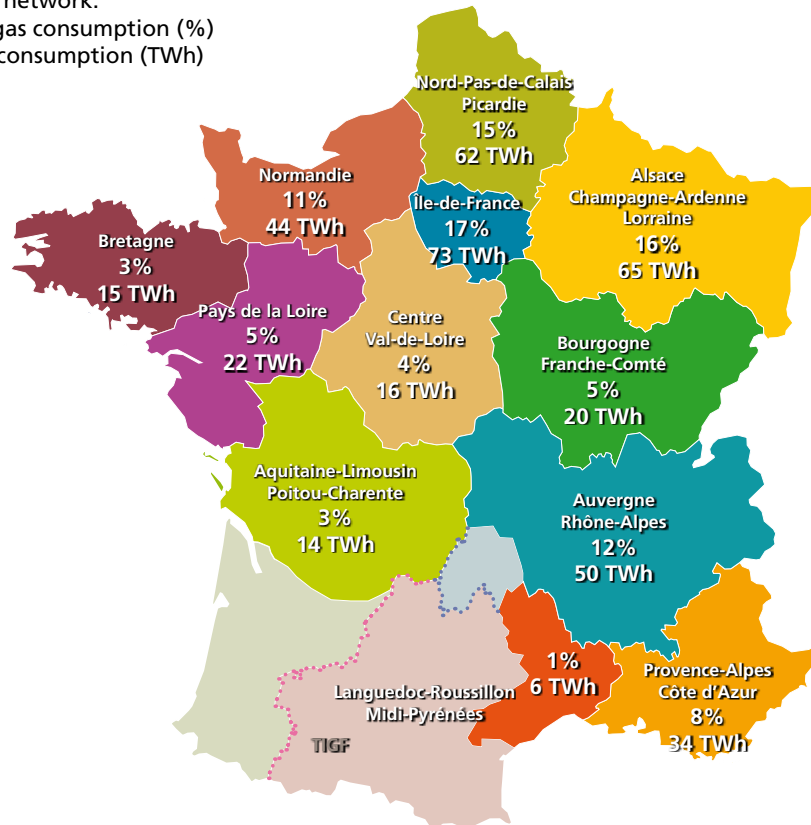
A significant player in the energy transition process, GRTgaz is investing in innovative solutions to adapt its system and to reconcile competitiveness, security of supply and environmental protection.

[www.grtgaz.com](http://www.grtgaz.com)

## GAS CONSUMPTION BY ADMINISTRATIVE REGIONS

On GRTgaz network:

- Share of gas consumption (%)
- Regional consumption (TWh)



## KEY FACILITIES OPENED IN 2015

### First biomethane connection facility

- Chagny (Saône-et-Loire)

### Pipeline

- Artère des Flandres: 23 km in DN 900
- Arc de Dierrey: 188km between Cuvilly-Dierrey (DN 1,200)

### Interconnection station

- Pitgam
- Cuvilly (partly commissioned in 2014)
- Ourcq
- Dierrey-Saint-Julien

### Metering station

- Clipon
- Hondschoote

### Odourisation station

- Loon-Plage (adaptation)

# THE NETWORK

## PIPELINES

<b>Total length:</b>	<b>32,320 km</b>
Main network:	8,346 km
Regional network:	23,974 km
Minimum diameter:	DN 80 mm
Maximum diameter:	DN 1,200 mm

## NETWORK PRESSURE

76 % of the transmission network is operated at a maximum pressure of 67.7 bar

**Maximum network pressure: 95 bar**

**Minimum pressure: 16 bar**

## ODORISATION

**26 facilities** (THT injection + check) on 19 sites of which 4 operated directly by GRTgaz

**28 control points across the network** including 27 sites operated by GRTgaz

## STATIONS

<b>Delivery stations:</b>	
<b>3,390</b> for distribution customers	
<b>1,021</b> for industrial customers	
<b>Regulating stations</b>	<b>797</b>
<b>Sectioning stations</b>	<b>4,806</b>

## COMPRESSION

<b>Compressor stations:</b>	<b>27</b>	
<b>Total installed capacity (elec/gas):</b>		
<b>599 MW</b> of which:		
Electro	297 MW	(32 units)
Turbo	297 MW	(44 units)
Motor	5 MW	(5 units)

# PIPELINE SAFETY

## INSPECTION

Network viewed from the road:  
**once a week to once a month**

Network viewed from a plane:  
**once or twice a month**

Network viewed on foot only:  
**once a year**

## CO<sub>2</sub> SAVINGS

**7 million tons of CO<sub>2</sub>** avoided by the use of gas instead of coal in power plants.

**490,000 tons of CO<sub>2</sub>** avoided by industrial sites conversions from fuel to the gas, the natural gas for vehicles and uses of renewable gas.

## SAFETY OF THIRD PARTY WORKS

Number of DT<sup>(1)</sup> + DICT<sup>(2)</sup> received and processed by GRTgaz in 2015:

**71,609**

Number of DTs + DICTs involving GRTgaz:

**66,576**

**Incidents** due to third-party projects:

**7 in 2015**

**9 in 2014**

**5 in 2013**

(1) Declarations of intent to carry out works

(2) Declarations of intent to begin works

# VOLUMES OF NATURAL GAS TRANSPORTED

Raw data i.e. non climate-corrected

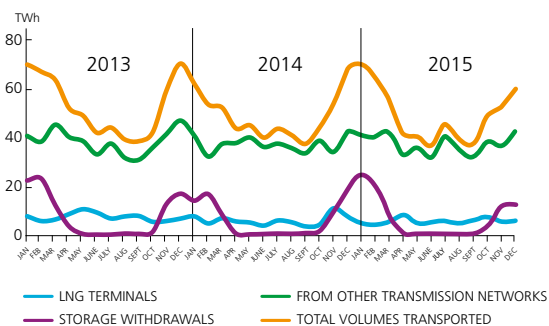
The volumes of natural gas transported by GRTgaz are calculated:

- either as a sum of entries to the network (LNG terminals, other transmission networks, storage withdrawals),
- or as the sum of exits from the network (other transmission networks, consumption, storage injections).

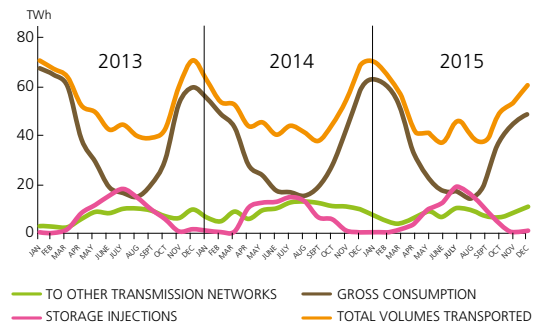
Period	Entries to the GRTgaz network			Exits from the GRTgaz network			Total volumes transported
	LNG terminals	From other transmission networks	Storage withdrawals	To other transmission networks	Consumption <sup>(3)</sup>	Storage injections	
2015	64.9 TWh	444.4 TWh	80.7 TWh	88.4 TWh	423.2 TWh	78.3 TWh	589.9 TWh
2014	69.4 TWh	444.0 TWh	69.8 TWh	113.4 TWh	391.9 TWh	77.9 TWh	583.2 TWh
2015 / 2014	-6.4%	+0.2%	+15.5%	-22.1%	+8.0%	+0.5%	+1.2%

(3) This refers to volumes consumed by the largest consumers connected directly to the GRTgaz network, the consumers connected to the public distribution networks supplied by GRTgaz, and by GRTgaz itself for its own needs — in particular, to power its compressor stations.

ENTRIES TO THE GRTgaz NETWORK



EXITS FROM THE GRTgaz NETWORK



# VOLUMES OF NATURAL GAS CONSUMED

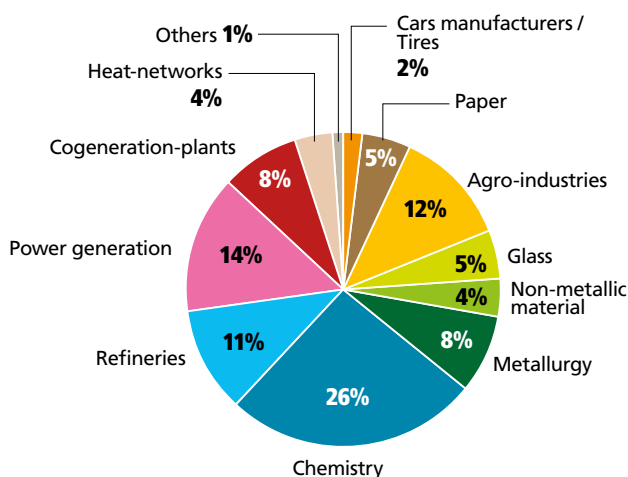
Consumption across all GRTgaz zones <sup>(4)</sup>	Gross public distribution	Climate-corrected public distribution	Distrib. publiques corrigé du climat	Total (gross)	Climate-corrected consumption
2015	154.6 TWh	266.7 TWh	280.3 TWh	421.3 TWh	434.9 TWh
2014	139.6 TWh	250.3 TWh	280.9 TWh	389.9 TWh	420.5 TWh
2015 / 2014	+10.8%	+6.6%	-0.2%	+8.1%	+3.4%

(4) Not including maintenance and self-consumption on the GRTgaz network.

## INDUSTRIAL CONSUMPTION IN 2015:

**154.6 TWh**

BREAKDOWN OF INDUSTRIAL CONSUMPTION BY SECTOR



## CUSTOMERS

**130** shipper customers as at the end of 2015

**19** Distribution network operators connected

**768** Industrial customers connected, including **12 gas-fired power plants** consuming natural gas at the end of 2015

## TRANSFERS ON THE FRENCH MARKET

**771 TWh** traded at Points of Gas Exchange

**Creation of TRS (Trading Region South)** on april 1, 2015

## 2015 INVESTMENT

Investment **€624** million

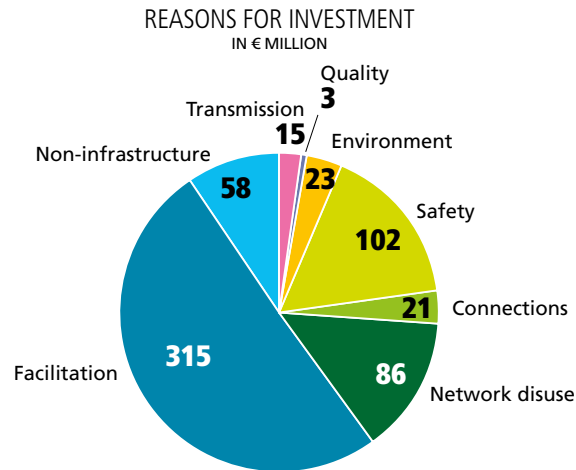
**€287** million on network maintenance

**€337** million on network expansion

## FINANCIAL PERFORMANCE (FRANCE)

Financial data (IFRS) – millions of euros

Sales	1,956
EBITDA	1,076
Net profit	341



## HUMAN RESOURCES

Number of employees at 31/12/2015	2,959
of which men	2,319
women	640 (21.6%)
of which Operational Staff	365
Supervisory	1,433
Executive	1,161

## WORKPLACE SAFETY

Frequency	2.0
Extended frequency	13.2
Severity rating	0.11
Frequency for external companies on GRTgaz worksites	3.6



**HEAD OFFICE**  
**General Secretary**  
 Immeuble Bora  
 6, rue Raoul Nordling  
 92270 Bois-Colombes - France  
 Tel.: +33 (0)1 55 66 44 00

[www.grtgaz.com](http://www.grtgaz.com)



An application  
at the heart of  
the network

