



GAZ RÉSEAU
DISTRIBUTION FRANCE



Cartographic issues

Eurogi, december 7th 2017

6 décembre 2017

Presentation

GRDF is a leading operator in the energy sector and an expert in the gas energy field. It is the main operator of the French natural gas distribution network

GRDF (Gas Réseau Distribution France) was founded on **31 December 2007**, and is an independent subsidiary that includes the natural gas distribution activities and is fully-owned by ENGIE.

Our roles:

- Designing, building, maintaining, and operating the 197,128 km of the natural gas distribution network;
- Transmitting natural gas on behalf of 46 suppliers in a completely impartial manner;
- Distributing natural gas to our 11 million customers in a completely secure manner;
- Promoting the use of natural gas and a profitable expansion of the distribution network and gas energy
- Supporting biomethane producers and connecting them to the network.

2015 key data (12/31/2015)

The longest natural gas network in Europe

197,928 km

natural gas network, i. e. a network that could circle the Earth almost five times!

277 TW h

of natural gas delivered

€745 million

invested in order to develop, maintain and operate the network

€1 million

every day, dedicated to the security of the network

And energy conduits serving the French-regions

A dynamic company

10.9 million customers in France

9,528 districts

supplied by the natural gas distribution network

77% of the population

lives in a district covered by the GRDF network

17 biomethane injection facilities (all network operators)

11,431 employees

582 hired staff and **1,040** student apprentices

will be trained in 2016

€3,409 billion in revenues

Our goal for 2018



Being the gas energy specialist

the trusted partner for our customers, suppliers, professional outlets, and regions in the transition to a low-carbon economy.

Providing exemplary public service

both in terms of the quality of service to our customers, and of the operation of the network in a completely secure manner.

Being a gas supplier that is hailed

for its standards, its performance, and its capacity to innovate, both in France and abroad.

Being an attractive employer

that is considered a reference in its societal role.

Our stakeholders

Other actors in the energy sector

Professionals in the industry

Customers

CRE
French Energy
Regulation
Commission

Consumer organisations



Local authorities and concession grantors

ADEME
French Environmental
and Energy
Management Agency

Natural gas suppliers

Public construction works companies

Government Authorities

Gaz network cartography french law july 2000

Article 15 [En savoir plus sur cet article...](#)

Modifié par [Décret n°2009-235 du 27 février 2009 - art. 5 \(V\)](#)

Cartographie.-Documentation.-Repérage des éléments du réseau.

L'opérateur tient à jour un dossier contenant les informations nécessaires à la sécurité d'exploitation du réseau.

Ce document comporte notamment :

- une liste des organes de coupure tels que définis à l'article 14, paragraphe 1 ci-avant ;
- un schéma d'exploitation du réseau faisant apparaître son architecture générale.

Il met en oeuvre des procédures garantissant sa mise à jour dès qu'intervient une modification de quelque nature que ce soit dans la configuration du réseau et des équipements ;

- une cartographie du réseau qu'il exploite à une échelle permettant de localiser chaque organe de coupure et chaque branchement.

La mise à jour de cette cartographie est réalisée à la suite de chaque intervention, dans le cadre de procédures précisées par les cahiers des charges particuliers correspondant à chaque catégorie de réseau concernée.

Any french gaz distributor must have a cartography in order to :

- locate the pipes and buried accessories
- know the exploitation framework

This cartography as to be reliable !

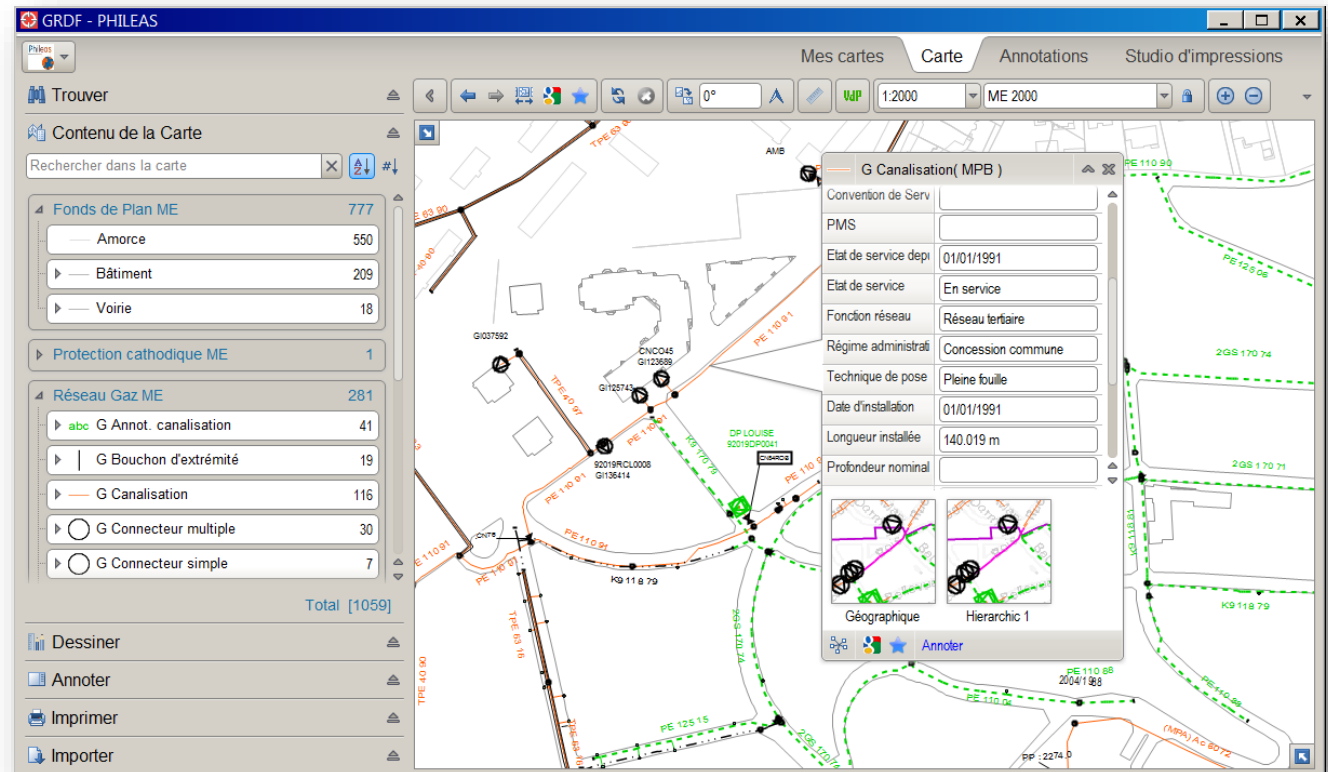
GRDF cartography in a slide

Staff :

- 250 cartographer
- 50 geographic surveyor

Datas :

- 14 million line segment describing pipes in the GIS
- 1,3 millions large scale maps (1/200)



Budget (2016) :

- 50 millions € (includes IT systems)

- 50 % collecting geographic data for new laid pipes
- 50 % existing data improving

Phileas : map viewer 1 700 daily visitors out of 8 000 potential users

Anti damages rules februar 2012

Cartographic features :

- Single portal (INERIS)
- Maps sent by network operators as an answer to DT/ DICT requests

Géo-referenced maps

Precision Classes (A/B/C)

Unique basemap (PCRS)

- Basemap owned by local authorities
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Map extracts for DT/DICT

Precision Classes (A/B/C)
3 years project

Géo-referenced maps
10 years project

Current basemap : GRDF-owned
Many years project

