



**GAS,  
ACCELERATOR  
OF THE FUTURE**





**“ As an energy 'in transition',  
gas lies at the heart  
of technological change,  
making it a solution  
for the future. ”**

**Dominique Mockly**  
General Director Terēga



TERÉGA

# KEY FIGURES 2017

**5,134 km**  
of pipelines

**14%**  
of pipelines within the French natural  
gas transportation network

**582**  
employees

**467 M€**  
of turnover

**118 M€**  
of investments

**55** transport customers,  
**17** storage customers

**33%**  
reduction in greenhouse effect  
gas emissions since 2012

**24%**  
of gas storage capacities  
within the French network

**2.80 Gm<sup>3</sup>**  
of marketable  
volumes

Almost **70%**  
recycled waste



## OUR EXPERTISE

The transport and storage of gas

Terēga has been developing exceptional know-how for over 70 years in the development of efficient, secure gas transport and storage infrastructures which provide permanent links between producers and consumers and fulfil the energy requirements of French and European customers.



## OUR EXPERTISE

The transport and storage of gas

### TRANSPORT

The Terēga pipeline grid distributes high volumes of gas from one point in the network to another. The gas can either be used directly by customers connected to the network or is transported to distribution grids supplying consumers in urban areas.

### STORAGE

The storage sites operated by Terēga are capable of storing huge amounts of energy. This means that they are able to respond to seasonable demand and subsequently guarantee a continuous energy supply.





## OUR EXPERTISE

The transport and storage of gas

### TRANSPORT

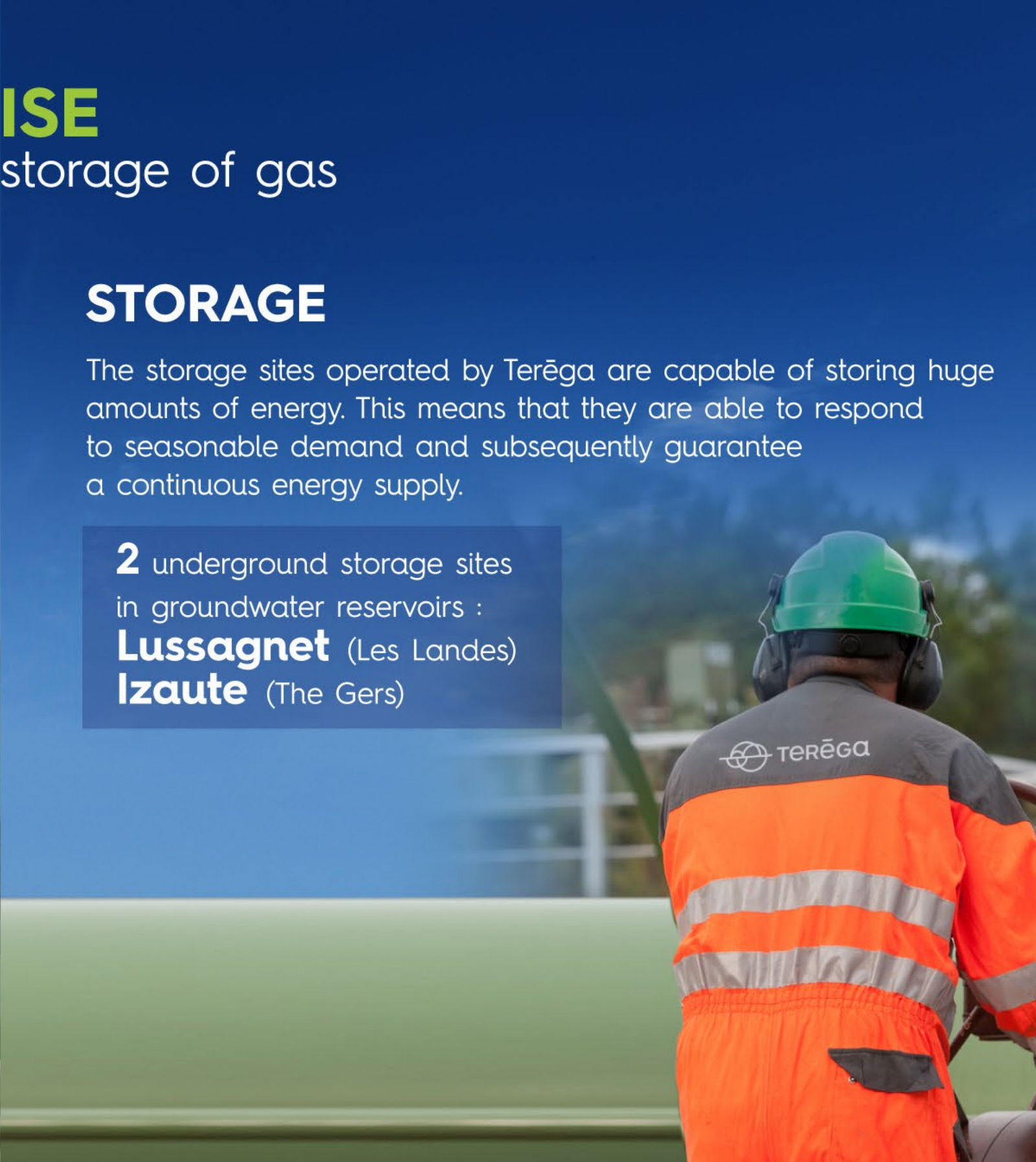
The Terēga pipeline grid distributes high volumes of gas from one point in the network to another. The gas can either be used directly by customers connected to the network or is transported to distribution grids supplying consumers in urban areas.

- 119** delivery points for industrial distribution
- 324** delivery points for public distribution
- 2** links with Spain

### STORAGE

The storage sites operated by Terēga are capable of storing huge amounts of energy. This means that they are able to respond to seasonable demand and subsequently guarantee a continuous energy supply.

- 2** underground storage sites in groundwater reservoirs :  
**Lussagnet** (Les Landes)  
**Izaute** (The Gers)





## OUR EXPERTISE

The transport and storage of gas



## GAS, A SOURCE OF ENERGY WITH MANY ADVANTAGES

Gas, the core business of Terēga, is the energy source of the future.

Whether we're talking about natural gas or renewable gas, it's abundant, readily available, competitive and has low CO<sub>2</sub> emissions.



## OUR NETWORK

A key position

Since it is both a national and a territorial player, Terēga occupies a strategic position at the crossroads between major European gas flows which allows it to guarantee secure supplies and contribute to the development of energy in Europe.

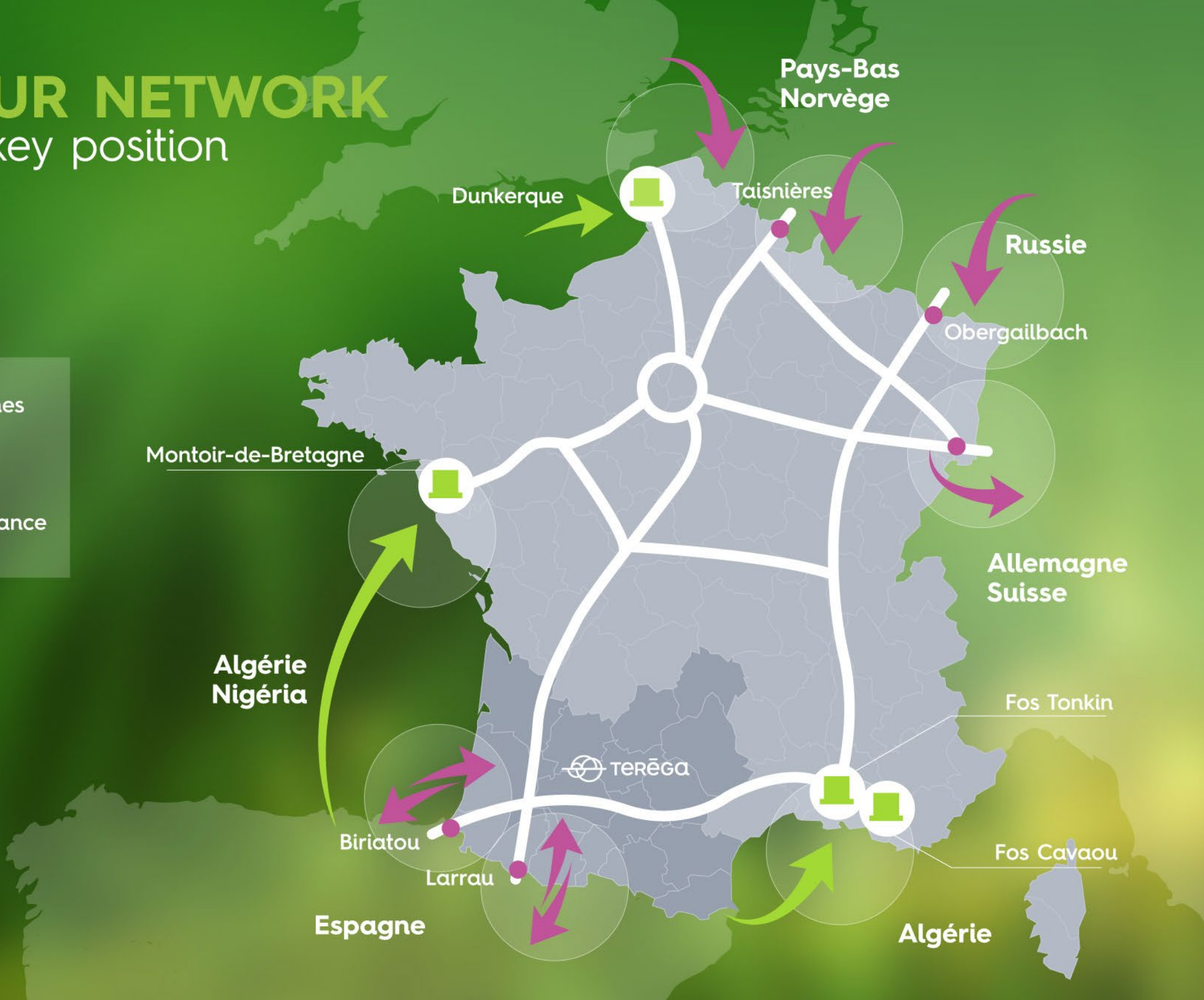




# OUR NETWORK

A key position

- Input/Output via pipelines
- Input via GNL terminals
- TRF : Trading Region France



# OUR NETWORK

A key position

-  Main exit/entrance
-  Storage
-  Existing Terēga network
-  Compression facilities
-  Biomethane injection site





## **OUR STRATEGY LINES**

A transformation upheld by an ambitious corporate plan:  
Impacts 2025

Terēga is already working on making the future of gas visible on the basis of Impacts 2025, a strategy which defines the firm's main lines of development and objectives for the coming years.

# OUR STRATEGY LINES

A transformation upheld by an ambitious corporate plan:  
Impacts 2025

## ACCELERATING THE DEVELOPMENT OF EMERGING APPLICATIONS FOR GAS

Biomethane

Natural Gas for Vehicles (NGV)

The integration of networks

Storage and recycling of CO<sub>2</sub>



## Biomethane

Biomethane is a renewable energy source produced by the natural breakdown of organic material: green waste, household waste, agricultural waste, food industry waste and even industrial waste.

### POTENTIAL RESOURCES IN THE Terēga ZONE



Terēga has installed **a biomethane injection station in Lot et Garonne (47)**, the largest biomethane injection capacity in France up to date.

**3 new projects have been commissioned and a number of other projects** are in the early stages of research.

These projects are an integral part of the multi-year programme of energy sources (with an injection of 8TWh into the grid by 2023).

### Terēga's objective

> to achieve one goal per year in the next ten years.

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## Natural gas for vehicles (NGV)

NGV doesn't emit any particles nor SO<sub>x</sub>, offers a reduction of almost 80% in NO<sub>x</sub> and 25% of CO<sub>2</sub> compared to diesel.

**Terēga is carrying out an extensive research program into the installation of NGV stations** in France in order to bring France up to the same level as their European counterparts (250 public distribution stations by the end of 2020).

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## The integration of networks

Renewable energy that is not used during the production phase is transformed into hydrogen by means of electrolysis.

This renewable hydrogen is subsequently combined with CO<sub>2</sub> and turned into methane.

Terēga collaborates with 8 partners on **the Jupiter 1000 demonstrator project** (Fos-sur-Mer) a project that solves the problem of storing surplus energy generated from renewable sources.

This project offers a pathway to the future at global level and, with the installation of its transport and **storage infrastructure, Terēga establishes itself as the vital link with Power to Gas.**



### Project supported by



# OUR STRATEGY LINES

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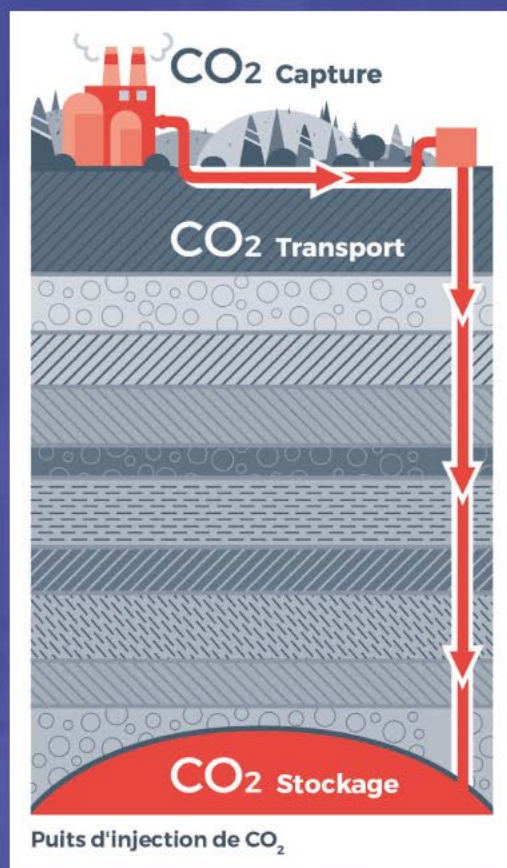
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## Storage and recycling of CO<sub>2</sub>

By using a technology that captures, transports, stores and/or recycles CO<sub>2</sub> we can reduce greenhouse gas emissions and at the same time safeguard the continuous use of fossil fuel.

**Terēga monitors the geological storage of CO<sub>2</sub>** very closely and is looking at ways to establish themselves as market leaders in this line of business.

They are actively working on a research programme which would enable them to recycle CO<sub>2</sub> and transform it into methane.

## OUR STRATEGY LINES

A transformation upheld by an ambitious corporate plan:  
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### POSITIVE INVOLVEMENT IN THE ENVIRONMENT



= A positive environmental record

#### **Avoid, reduce and compensate**

This method, already implemented in the Terēga pipeline grid, is the essence of the Be Positive programme. It covers the impact on air, water, the ground, biodiversity, the landscape and stakeholders...

#### **Terēga has been accredited with the following certifications:**

ISO 9001 (quality management system)  
ISO 14001 (environmental management)  
ISO 50001 (energy management)

The aim of this fully integrated environmental programme implemented by Terēga is to reduce their carbon footprint to zero across all business activities by 2020.

#### **The objectives of the Be Positive programme include:**

- Introduction of an in-house BE Positif agreement in favour of Terēga employees
- NGV vehicles in the Terēga vehicle fleet
- Mobile repressuring operations
- Use of the flare on burning operations



## OUR STRATEGY LINES

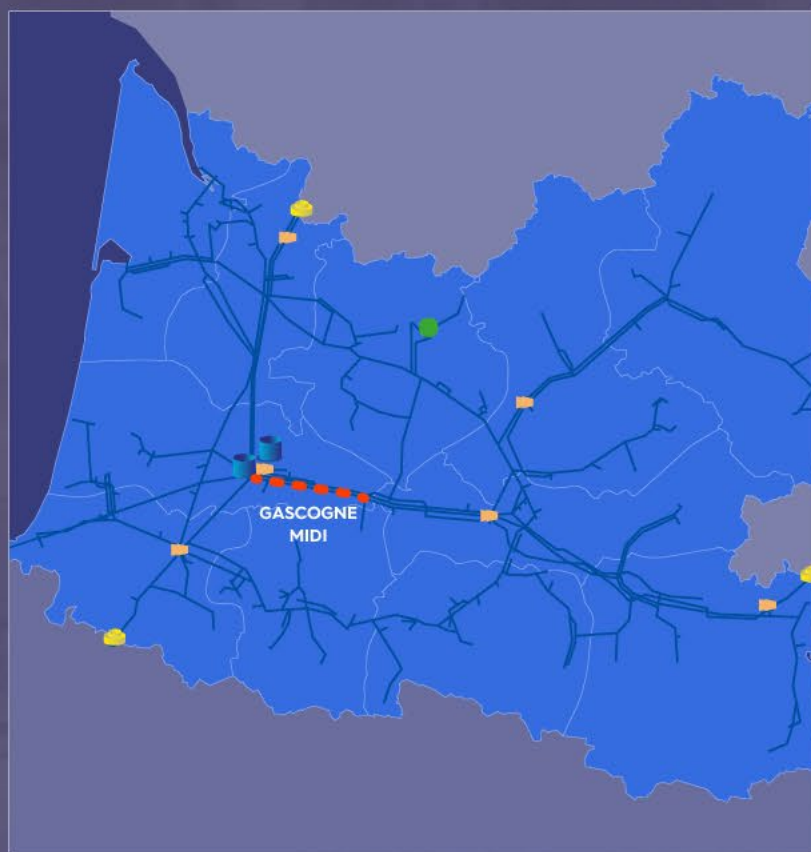
A transformation upheld by an ambitious corporate plan:  
Impacts 2025

### MAKING COMMUNICATION FLOW BETTER AND STRENGTHENING INFRASTRUCTURE

Strengthening Gascogne-Midi (RGM)

South Transit East Pyrenees (STEP)

Asset Replacement



## Strengthening Gascogne-Midi (RGM)

A project for a standard price for gas in France

61.8 km of underground pipeline  
between Lussagnet (40) and  
Barran (32)

900 mm in diameter

1 additional compressor at the  
Barbaira compressor plant  
(power of 7MW)

Commissioned in October 2018

In order to eliminate price differentials on natural gas between the North and the South of France, Terēga is participating in a national project to reinforce the natural gas transmission infrastructure via the "Reinforcement Gascogne Midi - RGM" project. The formation of the Trading Region France - TRF - as the only marketplace, is fully in line with the European policy to integrate natural gas markets and positions Terēga as a major player vis-à-vis its partners. The RGM project will bring gas from Terēga's area to south-eastern France.

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## MAKING COMMUNICATION FLOW BETTER AND STRENGTHENING INFRASTRUCTURE

Strengthening Gascogne-Midi (RGM)

South Transit East Pyrenees (STEP)

Asset Replacement



In its french part  
120 km of pipelines  
Operational in 2022

## South Transit East Pyrenees (STEP)

STEP is an energy solidarity project that will increase supply security.

Its aim is to create a **cross-border interconnected gas network between France and Spain.**

Within the framework of this project, Teréga is in charge, for the french part, of the **design, construction and implementation of a major pipeline** connecting its compression site in Barbaira in the Aude department to the Spanish border in the Pyrénées Orientales.

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Asset Replacement



## Asset Replacement

An initial amount of 33 million euros has already been invested in the area South of Toulouse, near Pamiers (55 km's of pipelines)

In order to safeguard the integrity, availability of it's installations and adapt to new needs, Teréga introduced **a model that helps them to decide in which area of their infrastructure to invest.**



## OUR STRATEGY LINES

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### EXPANDING OUR TERRITORIAL NETWORK



## The Corsica project

As part of the consultation process concerning the selection of a provider to develop and exploit a natural gas infrastructure in Corsica, Terēga has put forward its candidacy together with one of its shareholders, SNAM, a natural gas transmission organisation.

Terēga will therefore be responsible for the development of a transport network linking Bastia to Ajaccio.

If this project proves to be successful, it will provide Terēga with valuable insights which **will enable them to expand their current network.**



## OUR STRATEGY LINES

A transformation upheld by an ambitious corporate plan:  
Impacts 2025

PLACE CUSTOMERS AND NATIONAL SECURITY  
OF SUPPLY AT THE HEART OF OUR PRIORITIES



## Secure the storage capacities

Terēga operates and develops its storage infrastructures at the heart of its network in Lussagnet and Izaute, at the crossroads of European gas exchanges. The storage products and services offered by Terēga are competitive, flexible and have maximum availability. They allow customers to meet their flexibility needs to supply end consumers and seize opportunities that arise in the gas wholesale market.



## OUR STRATEGY LINES

A transformation upheld by an ambitious corporate plan:  
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PUTTING INNOVATION AT THE HEART OF CUSTOMER SERVICES



## Ambassadors Club

In order to respond better to the operational and daily expectations of its customers, Terēga is developing a new customer platform.

In a co-creation approach, Terēga launched the Ambassadors Club where customers exchange and express their needs, becoming the actors of their future platform, which will be made available to them in 2019.



## OUR STRATEGY LINES

A transformation upheld by an ambitious corporate plan:  
Impacts 2025

WE TAKE OUR APPROACH « ZERO ACCIDENTS,  
ZERO DAMAGES » TO THE NEXT LEVEL

Safety is a fundamental value at Terēga and its top priority.

To guarantee the day-to-day safety of our employees, our partners and our facilities, we deploy a structured and systematic approach at the root of all our processes.



**Regular monitoring of the network**

Additional security measures

An infrastructure inspection programme

**Periodical testing** Crisis management

Regular research Inspection of work carried out by third parties

Awareness campaigns

Innovative protection tests

Accident prevention policy



Terēga is today supported by its team of dedicated committed employees playing an active role in the development of the energy world of tomorrow

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[www.terega.fr](http://www.terega.fr)