



Avec vous,
en réseau



International Gas Union

WOC4 GrDF welcome session

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GrDF, a gas distribution company in the service of suppliers and customers in France



33 gas suppliers active on GRDF's grid



195 000 km of pipelines

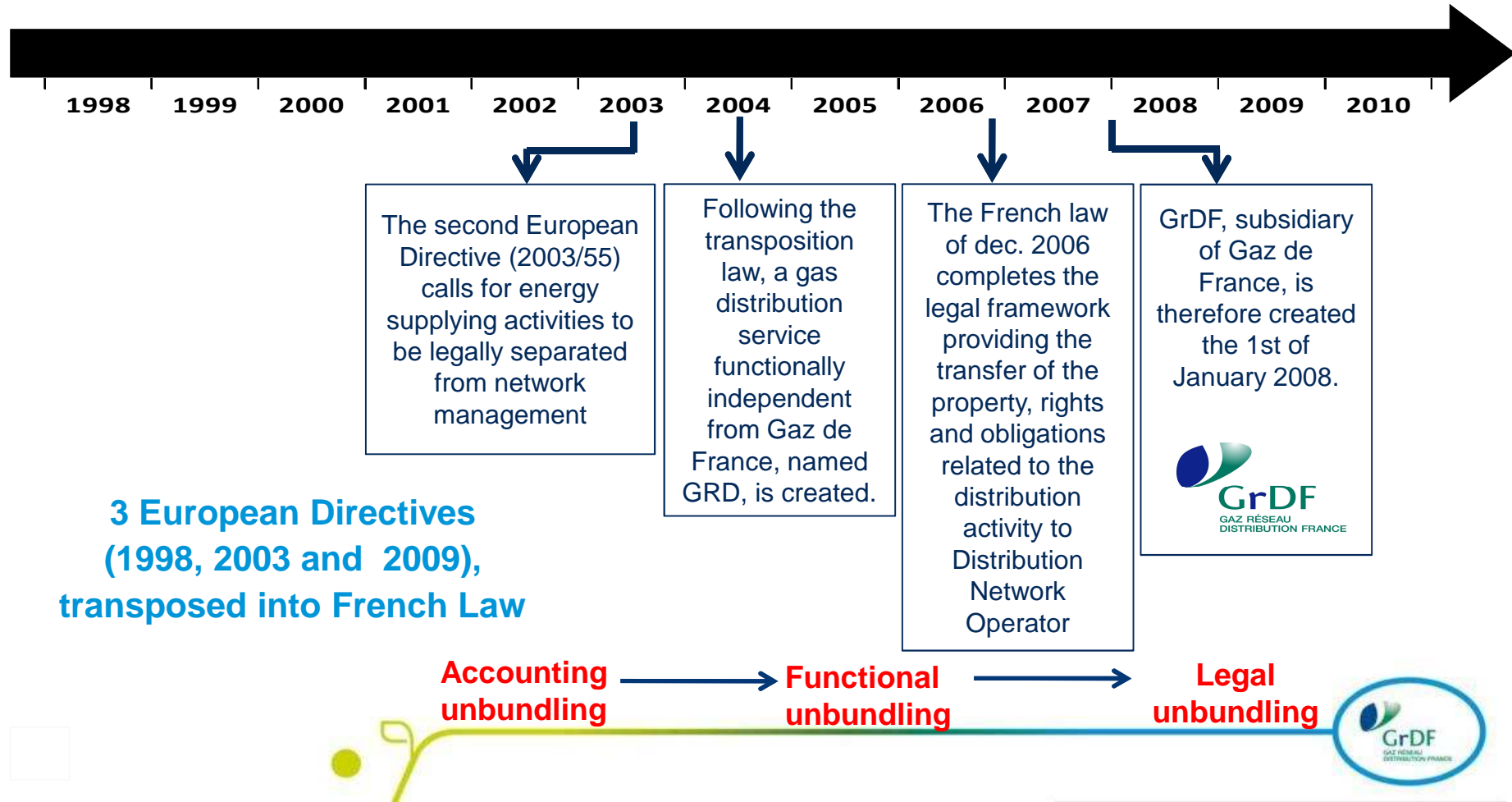
300 TWh in average climatic conditions



11 million customers

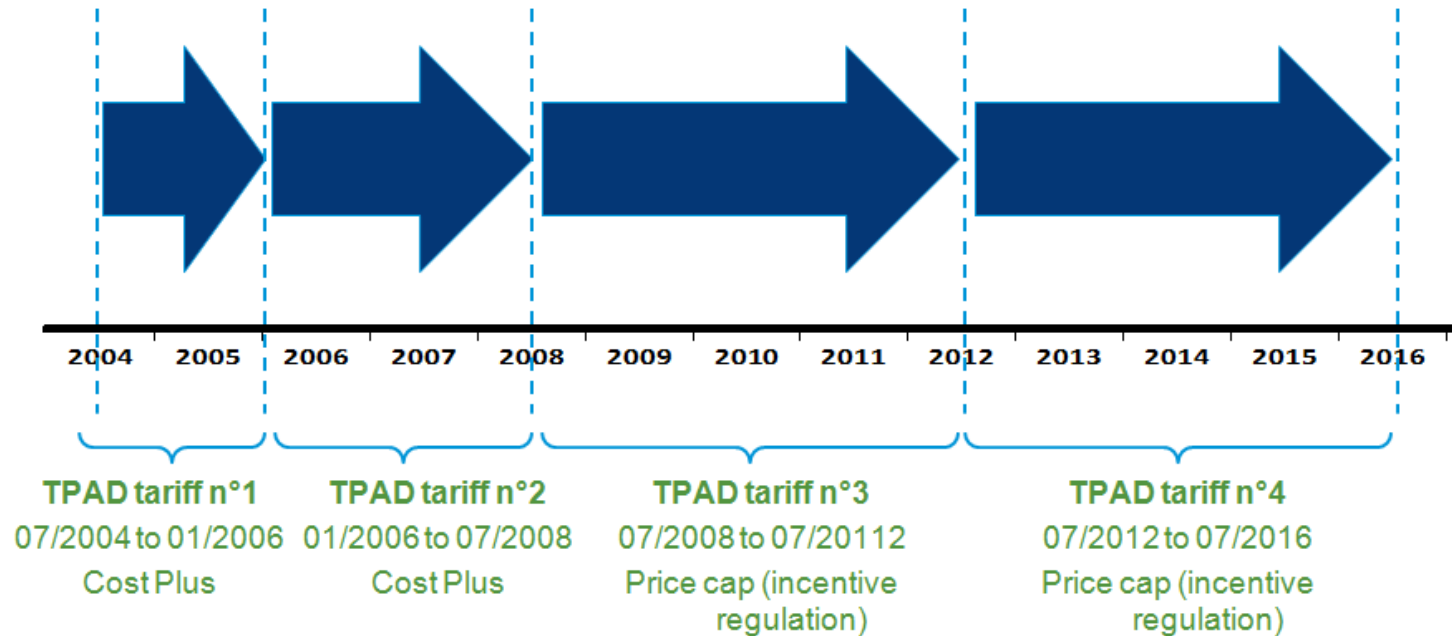
GrDF delivers natural gas to 96% of the customers connected to a distribution grid in France (on 26% of municipalities), guaranteeing that their suppliers can freely access the distribution grid on a non-discriminatory basis. The distribution tariff and the rules of access to the grid are the same for each supplier, a complete separation from the supply activities of GDF Suez is ensured.

Changes in the gas distributor status in recent years



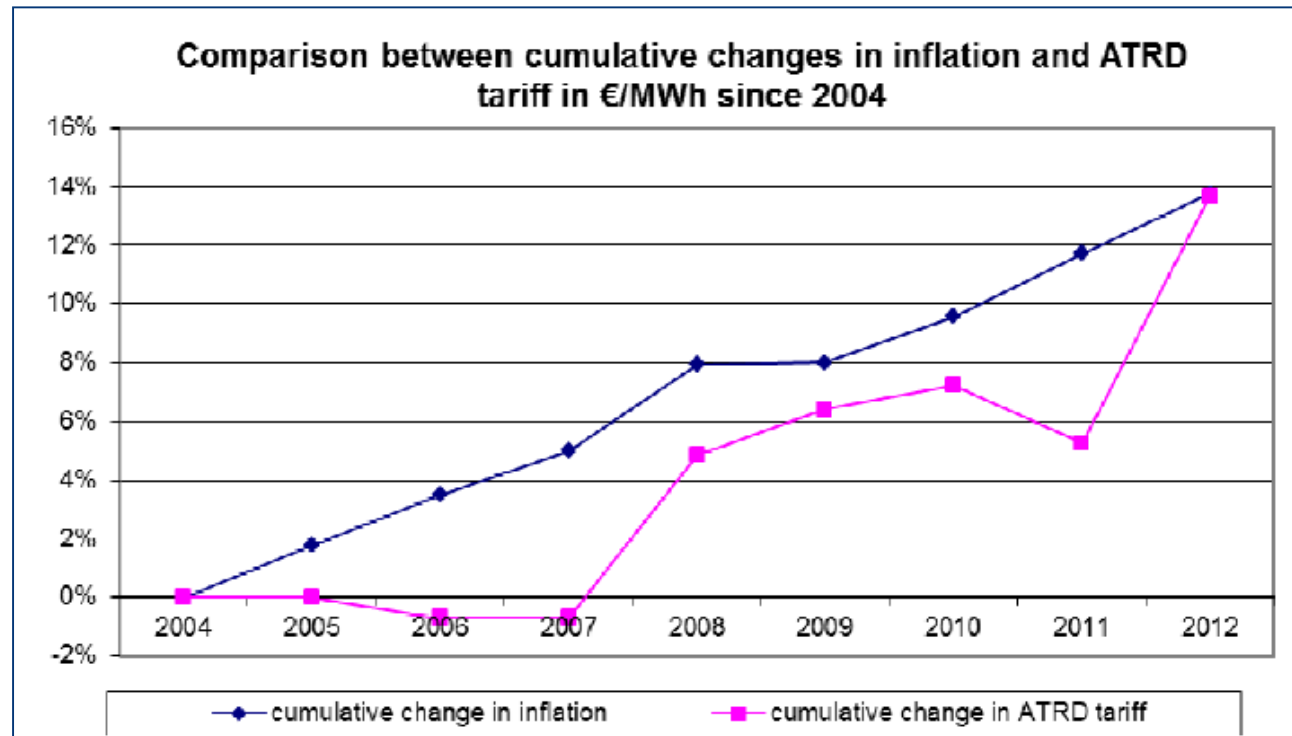
3 European Directives (1998, 2003 and 2009), transposed into French Law

Lengthening price control periods



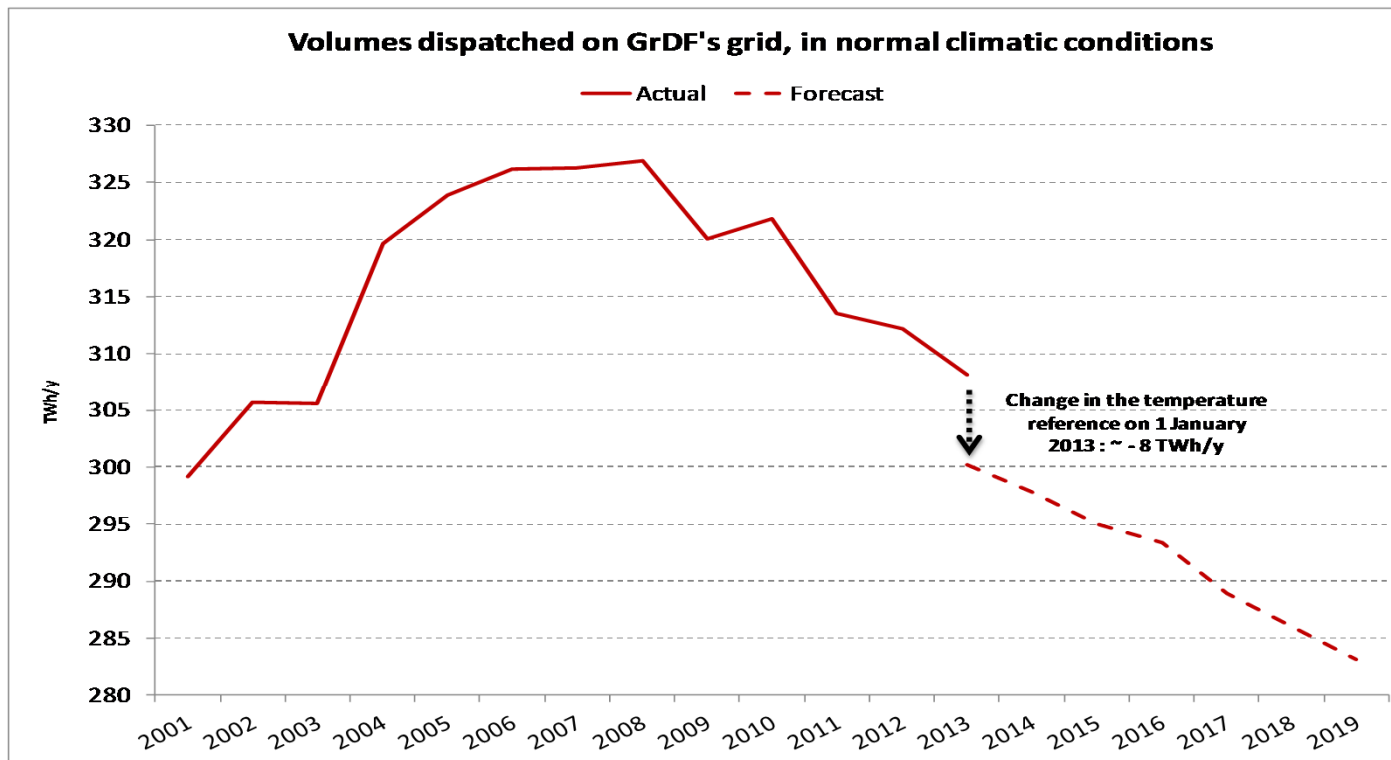
The equalised distribution tariff of GrDF, set by the French energy regulator (CRE), is currently running for a 4-years period, encouraging the DSO to control its costs. Besides, the quality of service of GrDF is monitored by the regulator to check that the pursuit of productivity gains has no adverse effects on the activity.

A cumulated evolution of the tariff close to the inflation rate



In spite of enhanced security requirements, the rise of the distribution tariff has been contained.

A negative outlook for consumption developments

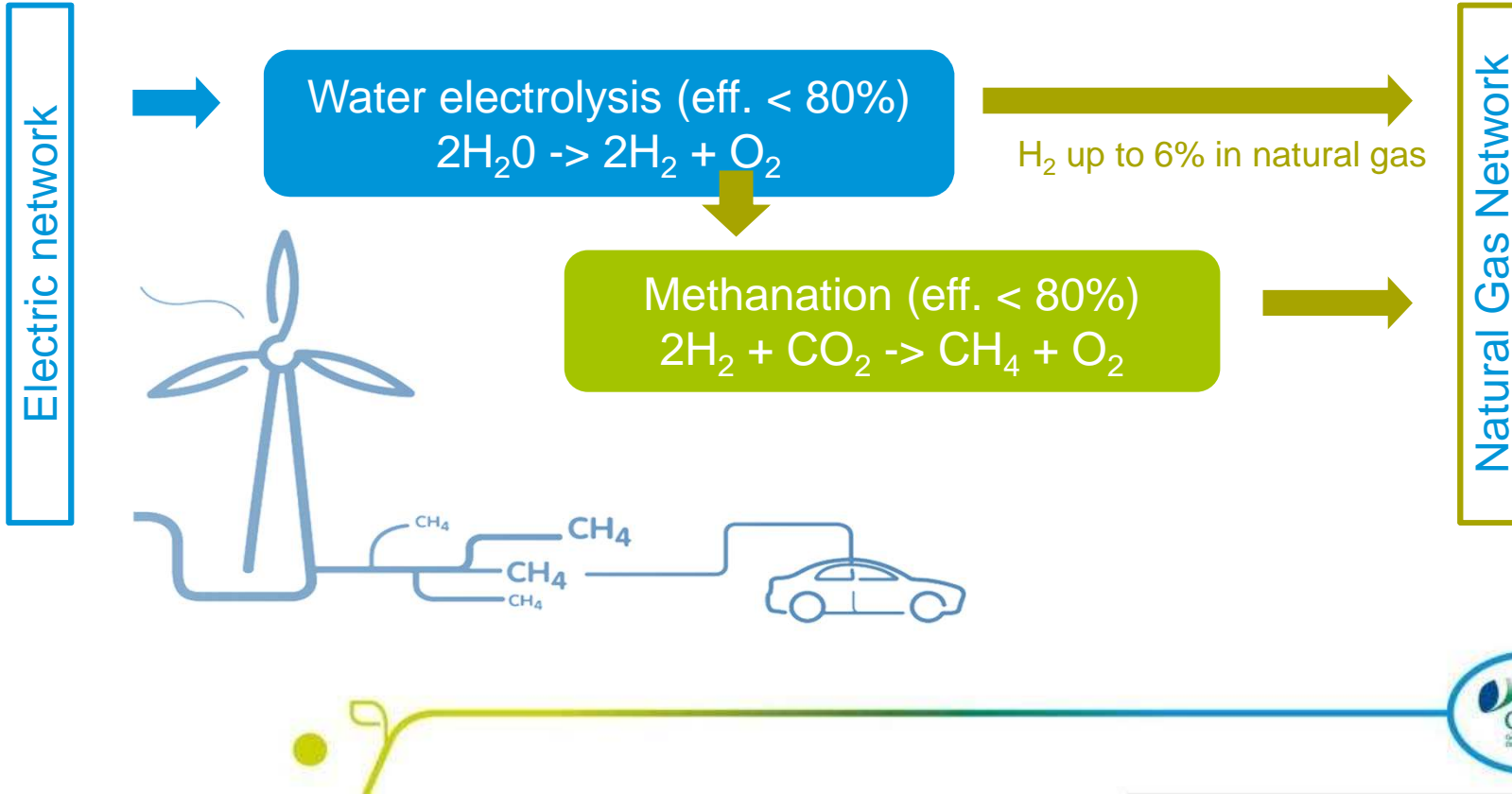


The distributed volumes are expected to drop mainly due to an improving energy efficiency, which will make the tariff balance more difficult to reach. The search for new growth drivers is therefore crucial for GrDF.

1

Flexible grid

Gas grids as energy storage and flexibility provider



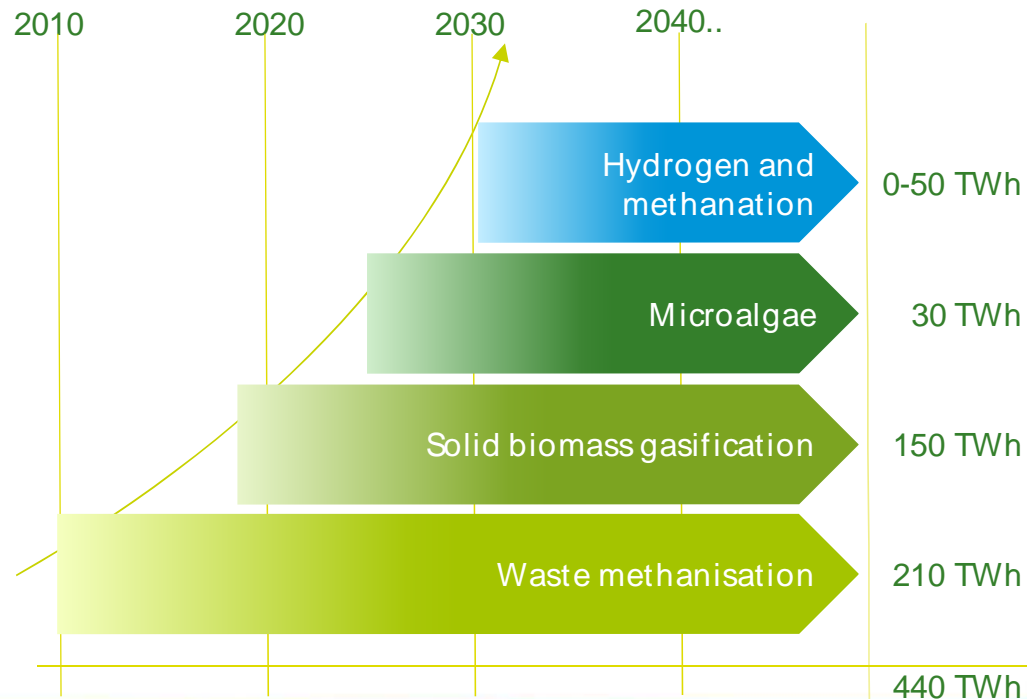
2 Acceptance of non conventional gas

Greener gas grid : toward a 100% renewable gas in 2050 ?

French technical potentials of green gases are similar to actual natural gas consumptions

14 % of green gas supply by 2030 is a sound objective

French technical potential



2 Acceptance of non conventional gas

Example of Lille Sequedin green gas injection

First grid injection in 2011 at Lille-Sequedin green waste processing plant



.. And more than 300 projects of biomethane injection received by GrDF

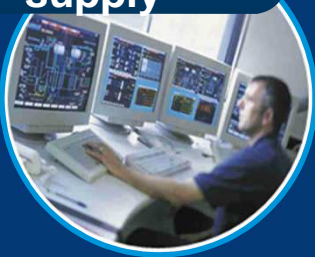


3

Operation and safety

Continuity of supply

From remote monitoring to SCADA



3000 operational devices

- Mainly used for remote monitoring
- Local information systems
- Centralized network management and operations thanks to 30 Area Operational Management (AOM) centers



First stage

Industrialization of remote monitoring

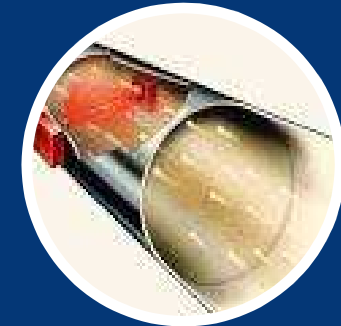
- Remote monitoring of medium and low pressure pipelines
- Remote cathodic protection monitoring
- Centralized information system
- AOM centers in charge of supervision



Second stage

One single network monitoring and management tool

- Update and convergence of the decision-making tools
- Development and implementation of a SCADA



Third stage

Smart Pipe

- Active network management
- Convergence with Smart Metering infrastructure
- Biomethane injection management

2012

2015

2017

2020

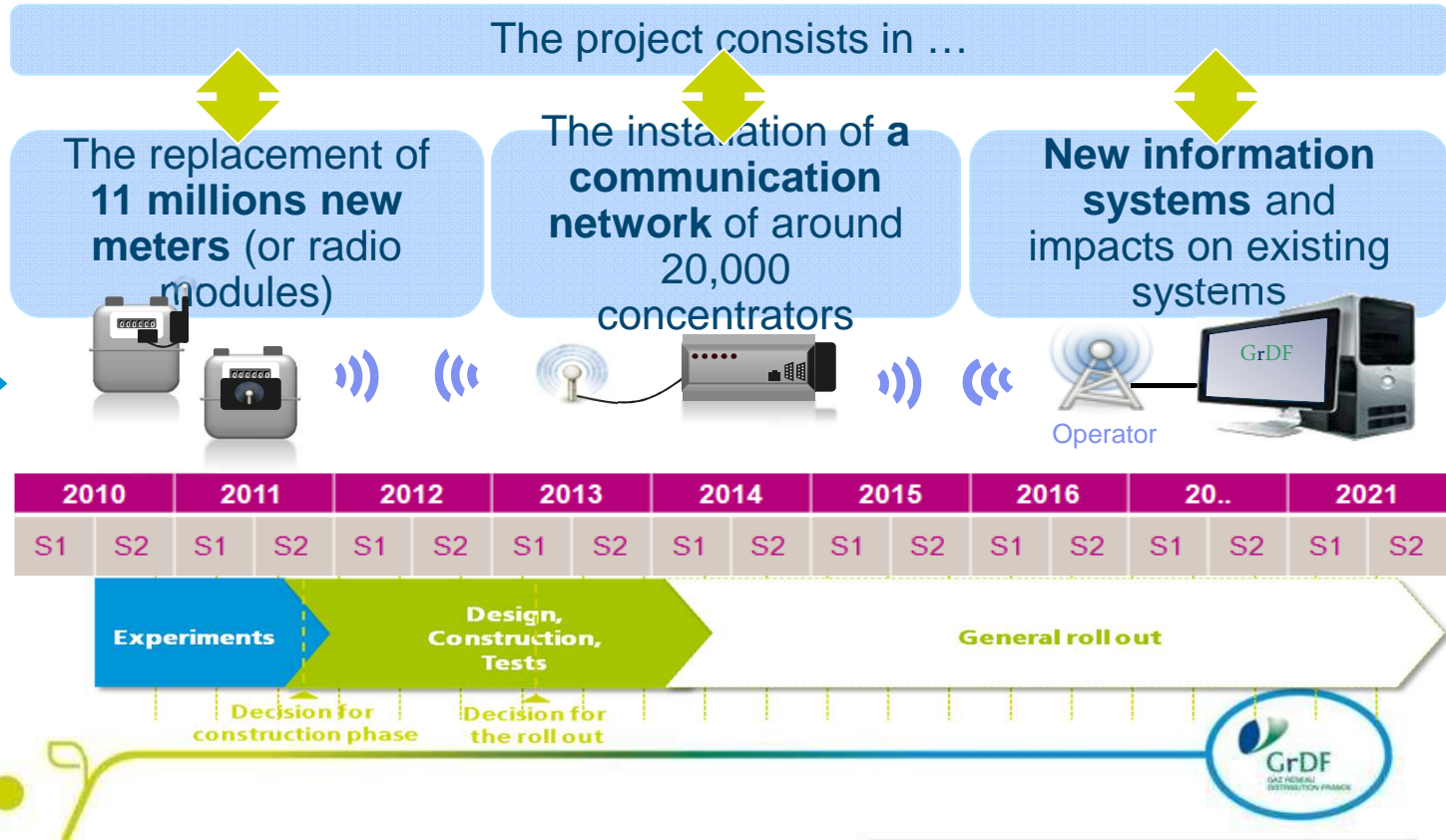
3 GrDF Smart Metering Project

Roll-out of smart-meters for 11 millions customers

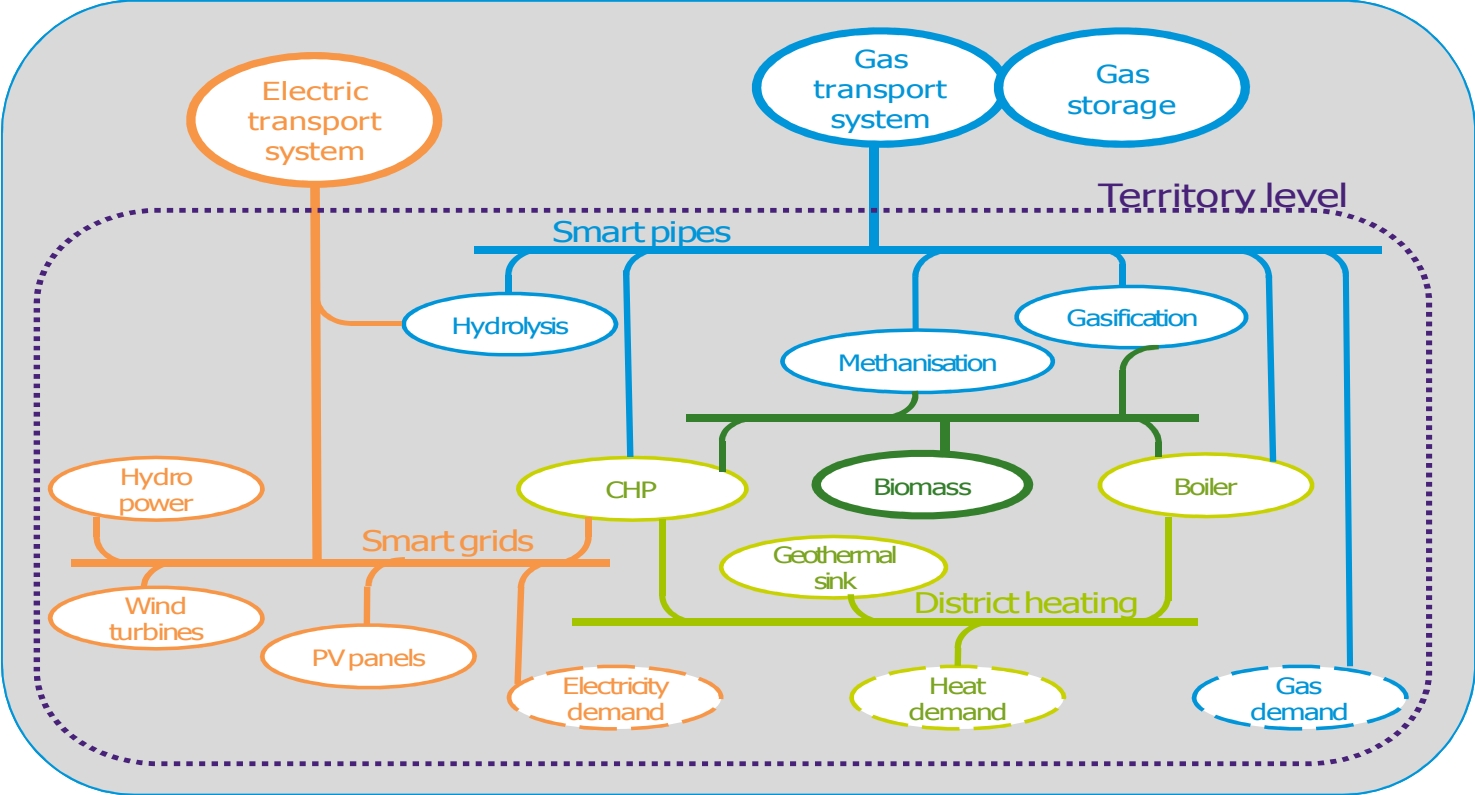
1 Customer satisfaction

2 Energy savings

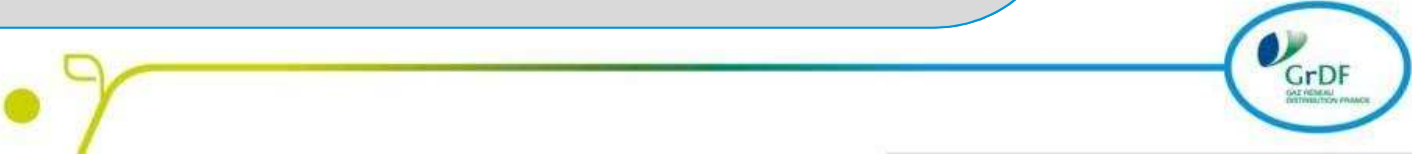
3 DSO's efficiency



The smart gas grid part of a wider smart networks project



- 1 Consumer empowerment
- 2 Improved energy efficiency
- 3 Green energy penetration



Thank you for your attention

GrDF 2030 vision

~4 minutes video

