









The 4 main missions of GrDF, a leading European natural gas distributor

To tranport natural gas on a nondiscriminatory basis on behalf of all suppliers	Secure the quality, the safety and the economic performance of the distribution network
To provide public service in natural gas distribution under franchise agreements with local governments	Ensure the cost-effective development of the network for many users to access



Customers

Network length

Communities served

Volume delivered

Investment

Workforce

> 11,000,000 customers



Customers

Network length

Communities served

Volume delivered

Investment

Workforce

194,000 km

i.e. 5 times the Earths' circumference



Customers

Network length

Communities served

Volume delivered

Investment

Workforce

9,500 Accounting for 77% of the French population



Customers

Network length

Communities served

Volume delivered

Investment

Workforce

350 TWh delivered every year



Customers

Network length

Communities served

Volume delivered

Investment

Workforce

700 million €

invested in our grid every year



Customers

Network length

Communities served

Volume delivered

Investment

Workforce

12,000 employees







European high level targets



Smart-energy networks







4 macro-functionalities defined at European level

2011 TF Smart Grid –EG4 conclusion on smart gas grids functionalities







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

Waste





Biomethane

In the grid



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

2 Acceptance of non conventional gas

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







Overall view on GrDF gas smart grid project

2011 TF Smart Grid –EG4 conclusion on smart gas grids functionalities



GrDF

of GrDF vision







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

2012



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

2015

2017

2020



Thank you for your attention

GrDF 2030 vision

