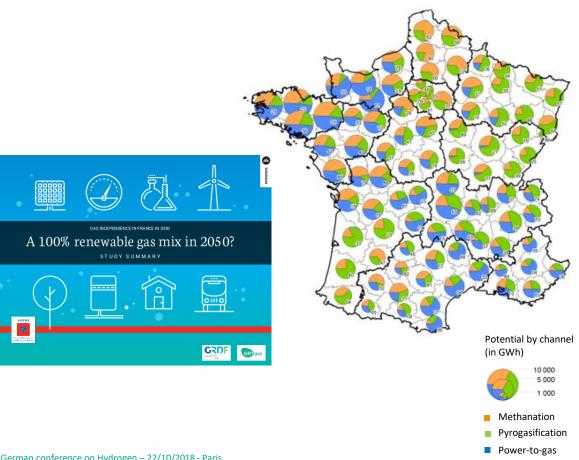
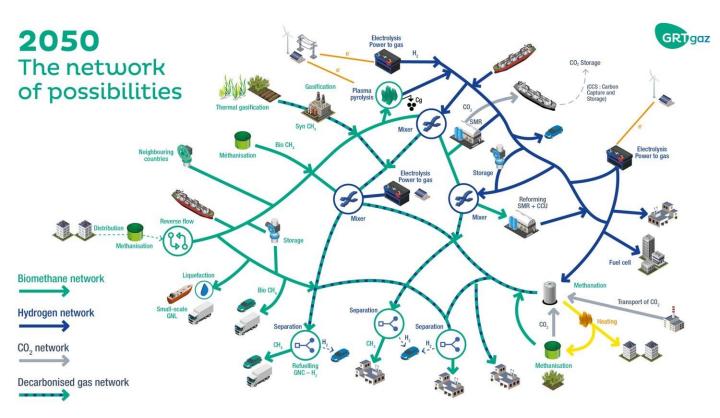
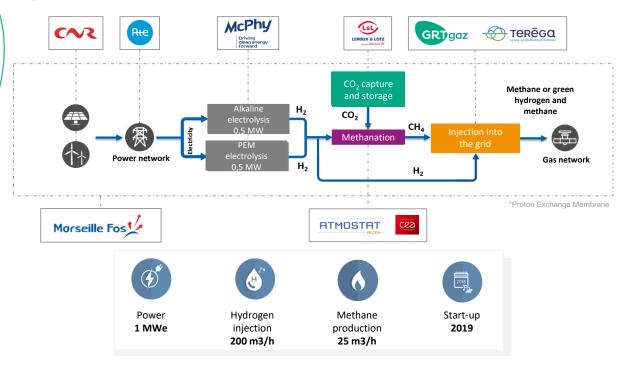


Optimize the use of a diversity of renewable gases





Jupiter 1000: The first P2G demonstrator in France



Project coordinated by:



Supported by :

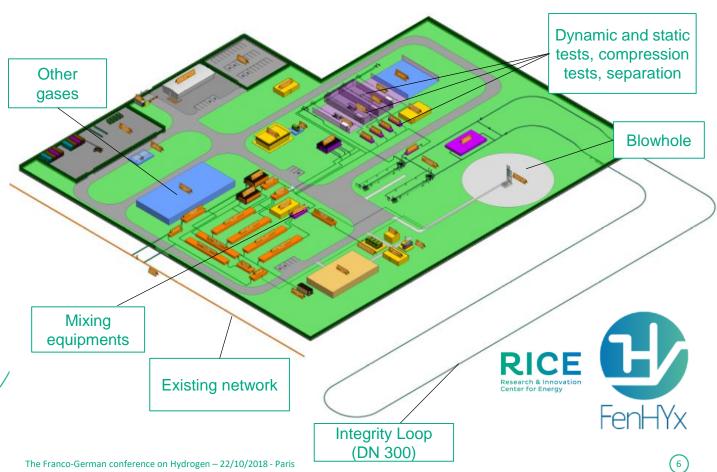








Illustrative model of FenHYx: Future energy network for Hydrogen and mix



FenHYx: a European Innovative Platform on H2/CH4 mixes



Objectives



Accelerate network upscaling and adaptation for transmission of new gases



Test/develop new transmission equipment/innovation design for H2, CH4, sygas and RNG



Elaborate and validate new business model and key regulatory issues



Project identity



Project initiator: GRTgaz





Partners and project funders: Multiple European organisations/TSOs



Localisation: still ongoing



Equipment

An innovative platform equipped like a transmission network in real conditions:

- Gas quality analysis, metering, compression and storage
- Gas mixing apparatus
- Dynamic, static and integrity loops
- Test innovative processes



Tested parameters

- Different blends of natural gas and hydrogen, up to 100% hydrogen
- Different pressure levels
 - Green regulatory and support schemes, impact on projects' business models

A platform open to European partners

Identification by European TSOs of the same technical gaps

Need for standardization in Europe International recognition of GRTgaz' R&D center RICE



of the R&D effort

Mutualisation

Conclusion



Hydrogen is a key enabler for deep decarbonation of gas usages. Gas transport operators are engaging in the energy transition when considering this vector.



The network will be a key factor in the successfull upscalling of new sectors like hydrogen.



Projects like Jupiter 1000 have the ambition to develop sector coupling through the flexity bewteen gas and electricity networks.



FenHYx will promote not only research around the adaption of the networks to hydrogen injection in Europe but will demonstrate equipments qualification.



Cooperation between France and Germany constitutes an opportunity to develop the sector.



Connecter les énergies d'avenir

aurelie.carayol@grtgaz.com

grtgaz.com