



Jupiter 1000 Project

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Jupiter 1000 Project : 1st Power-to-gas industrial demonstrator in France



- Industrial demonstrator with a power rating of 1 MWe
- Based on a platform dedicated to energy transition : Innovex in Fos-sur-Me
- The project is the result of the collaboration of 9 French industrial partners

- **Jupiter 1000 Project is:**
 - Supported by the French Energy Regulatory Commission (CRE)
 - Co-financed by the European Union, the French State, the Region Sud Provence-Alpes Cote d'Azur
 - Member of Flexgrid showcase programm by CapEnergies

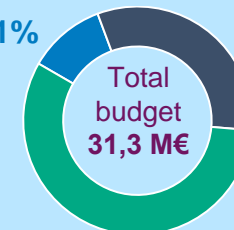


Budget

	Total budget
Total	31,3 M€

Partners: 11%

GRTgaz: 57%



Subsidies: 32%

- ADEME : 6 802 489 €
- FEDER : 2 136 450 €
- PACA : 745 902 €

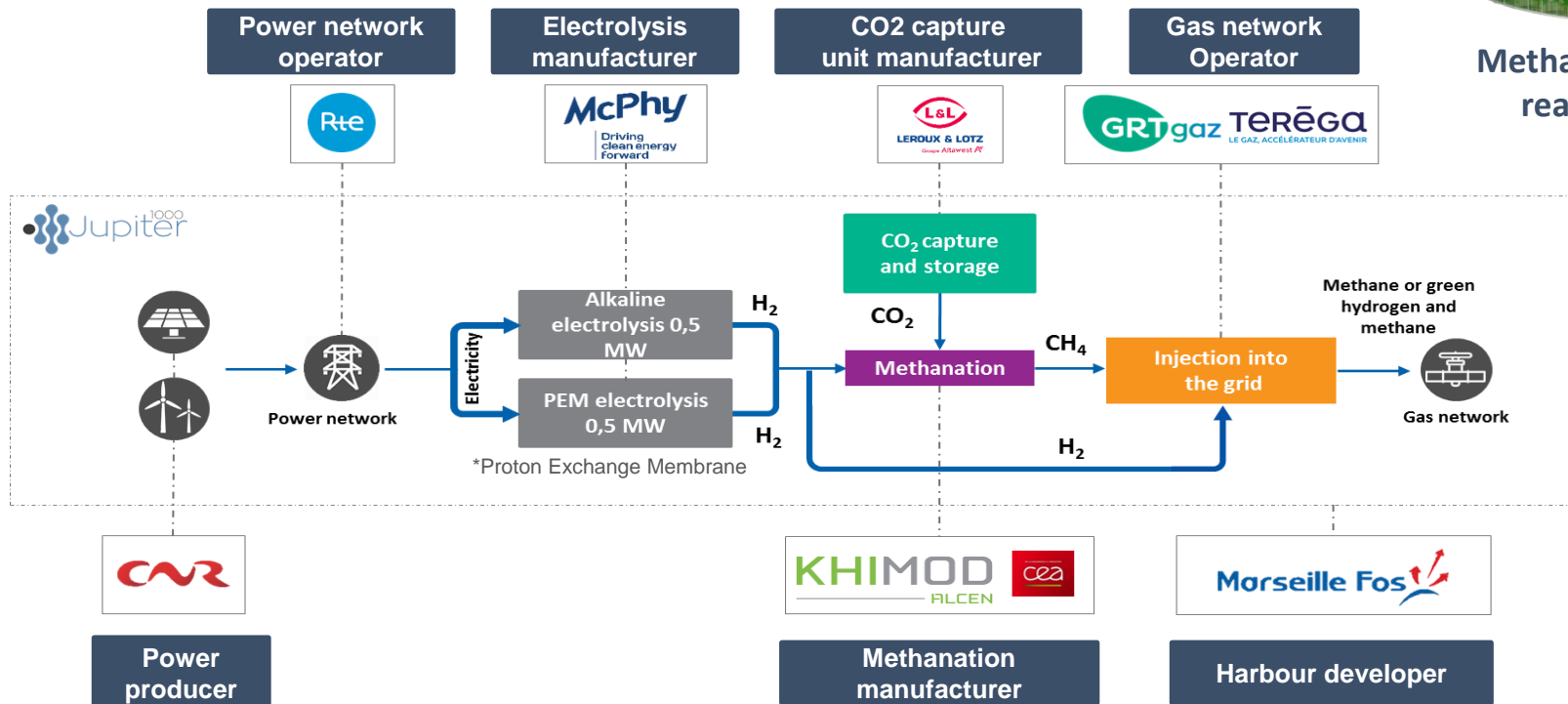
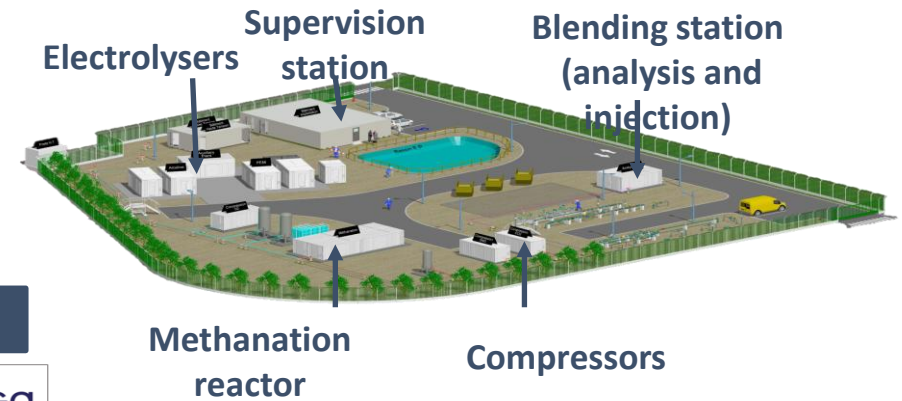


Jupiter 1000 : when gas networks offers a solution to store massively the excess of renewable electricity.



Different technological blocks :

- Electrolysis
- CO2 capture
- Methanation
- Testing injectable green hydrogen blended with methane in natural gas infrastructures





The aims of the project: a technological and economical demonstration



Confirm the potential to store green electricity surplus

- **Confirm the flexibility** offered to support the power grid (ancillary services, excess of green electricity...)
- **Validate all the technologies** : electrolysers, methanation and CO2 capture
- Experiment the feasibility of injecting hydrogen into the gas grid



Build a Business Model

- **Work on technical and economic models** and determine the conditions for profitability

Realized in partnership with the CEA of Grenoble, the modelling of the system for the economic analysis bases itself on the data of the set of the project partners:

Forecast electricity prices



Valuation of the balances



Forecast gas prices



Learning curves of technologies



Analysis method



Each partners bring relevant data to the whole chain



Launch the Power-To-Gas sector in France

- Help the public authorities to build favourable conditions for the **emergence of a new industrial sector** in France



Connecter les énergies d'avenir

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