

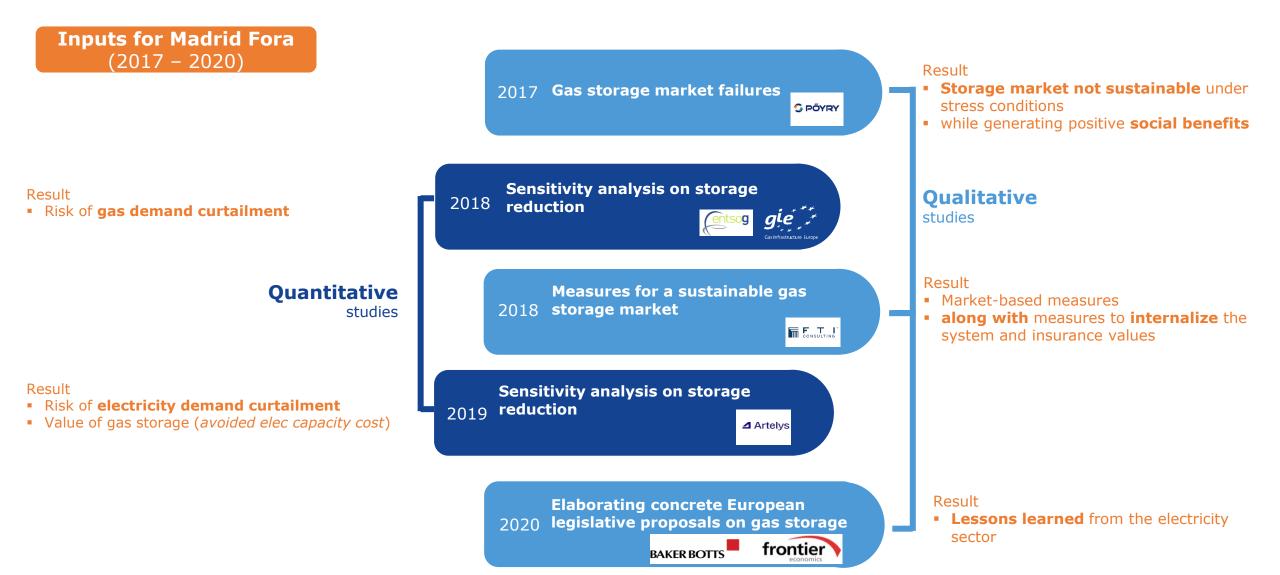
Gas Infrastructure Europe

### Recommendations based on the lessons learned from the study by Frontier Economics and Baker Botts

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### **Setting the scene of the study**







## Market-based cross-sectoral regulatory interventions to enhance energy system integration through the flexibility provided by gas storage

Ensuring better coordinated network planning (including electricity, gas, hydrogen infrastructures and storage)



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Providing regulatory incentives to avoid increasing electricity capacity costs



In case of residual gas storage market failures - Government interventions

#### **1**<sup>st</sup> recommendation



Ensuring better coordinated network planning (including electricity, gas, hydrogen infrastructures and storage)

Assessment of **the avoided capacity costs** generated by storage

- Avoided operational capacity costs = more expensive generation units to generate more electricity
- Avoided investments capacity costs = forcing additional investments in alternative flexibility solutions to be built and operated

#### **Unnecessary additional capacity cost**

- **Generation** (generation power plants) (\*)
- Transmission (electric lines)

To be combined **with incentives to achieve system cost savings** in cross-sectoral tariff setting procedures

#### Main benefits

- Preventing **unnecessary investments** in electricity from materialising
- Avoiding **any risks of security of supply** (cross-sectoral impacts) from materializing while accelerating RES penetration

(\*) GIE 2019 (Artelys study)

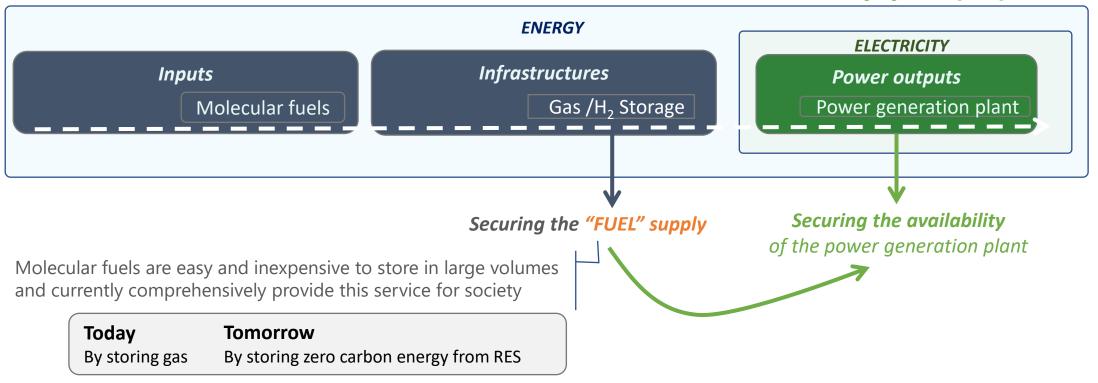


Providing regulatory incentives to avoid increasing electricity capacity costs: the regulatory framework must reflect security of fuel supplies in electricity generation

Helicopter view >

Having the *benefits generated* by storage *integrated in* the value chain

from an electricity system perspective





In case of residual gas storage market failures, government interventions as further measures could be required to secure a reliable energy system.

**Dynamic regulation:** 

• Adequacy of supply in gas not solely to be borne by "gas" consumers

# Thank you for joining us.



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