



Picture courtesy of Gas Connect Austria

# Role of green gases

**Europe in Transition – RGI conference**

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online

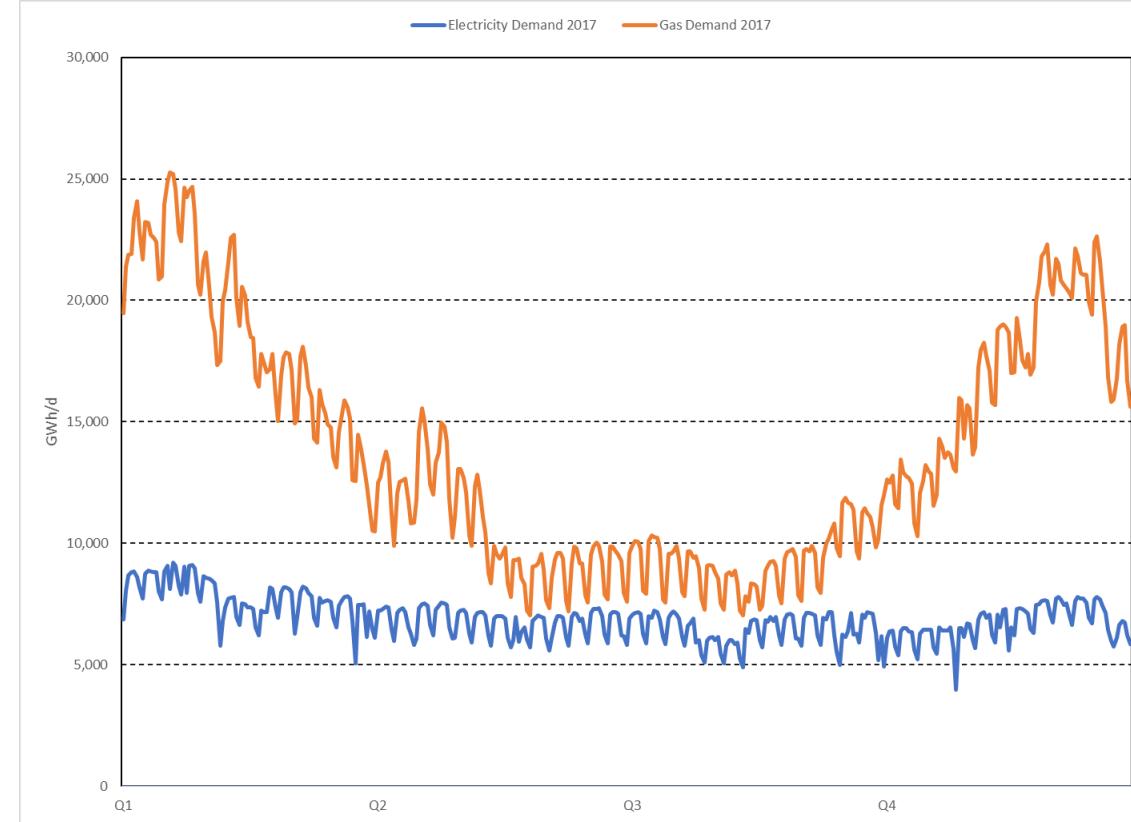
# Gas outlook

## Gas specificities

- Demand is seasonal and temperature dependent (heating / tertiary)
- ca. 3,500 TWh in winter / 1,500 TWh in summer
- 1,100 TWh of storage capacity (1/3 of winter gas demand, or 1/3 of annual electricity demand)

## Possible evolutions towards 2050

- Further electrification (lower demand for final use, back up for intermittent power generation)
- Fuel switch in industry (coal/natural gas to electricity/green gas)
- Fuel switch in transport (especially heavy duty, maritime, aviation)
- Development of Fuel-Cells applications for hydrogen

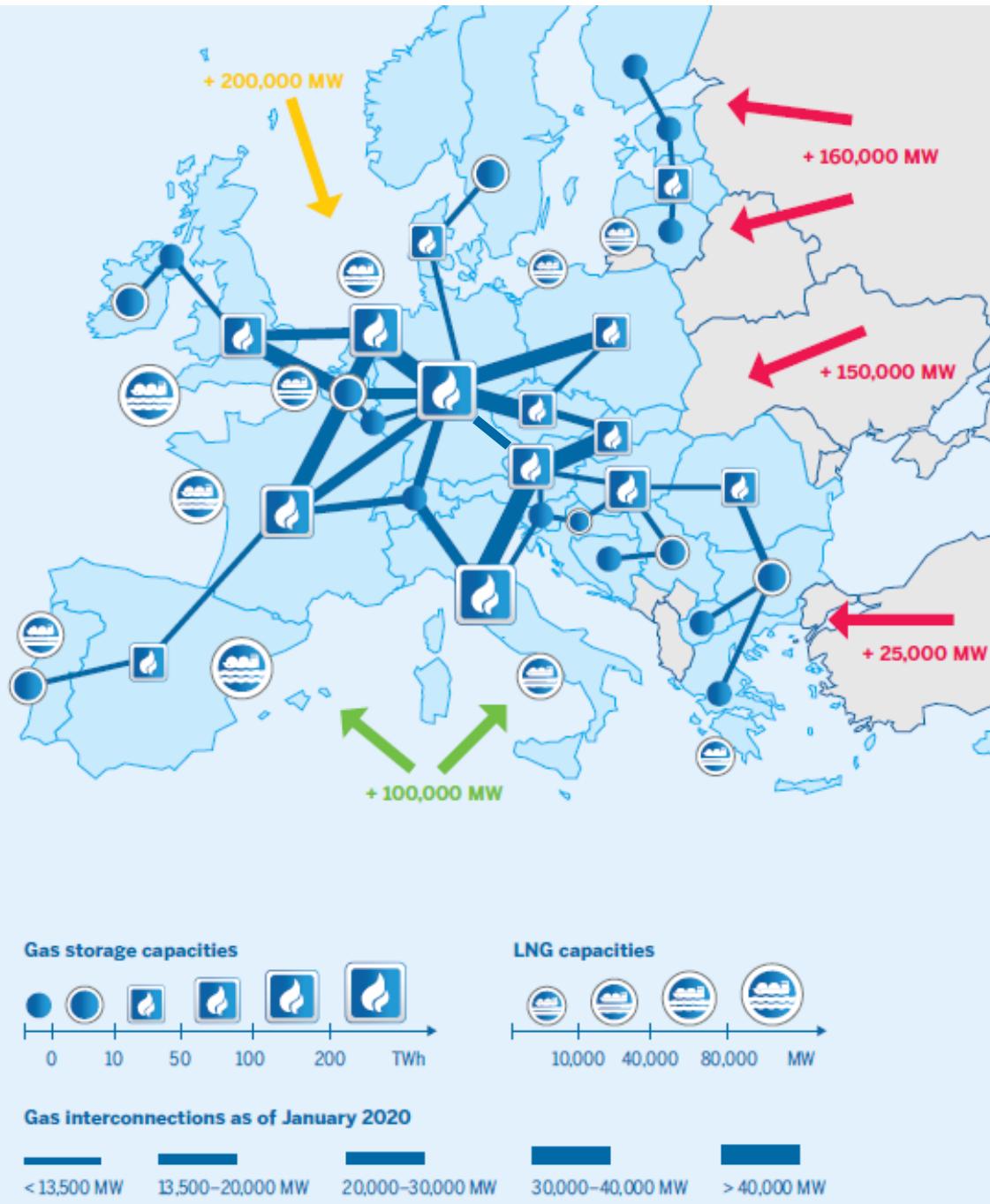


## *Green gases (EU and imports)*

- *Biomethane*
- *Green Hydrogen (P2G/P2L from wind and solar)*

## Gas outlook

- Gas pipelines can transport large amounts of energy (most x-border capacities  $>> 10$  GW)
- Gas interconnectors are not exposed to congestion, even in case of peak demand (5% probability)
- Europe can import liquid or gaseous gases
- Green gases can be produced at a certain time then stored and consumed later. No constraint to consume them at the same time they are produced/imported





# Thank you for your attention

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