



Hydrogen
Europe

GEODE Spring Conference

Jorgo Chatzimarkakis, Secretary General

Fuel Cell & Hydrogen Joint Undertaking



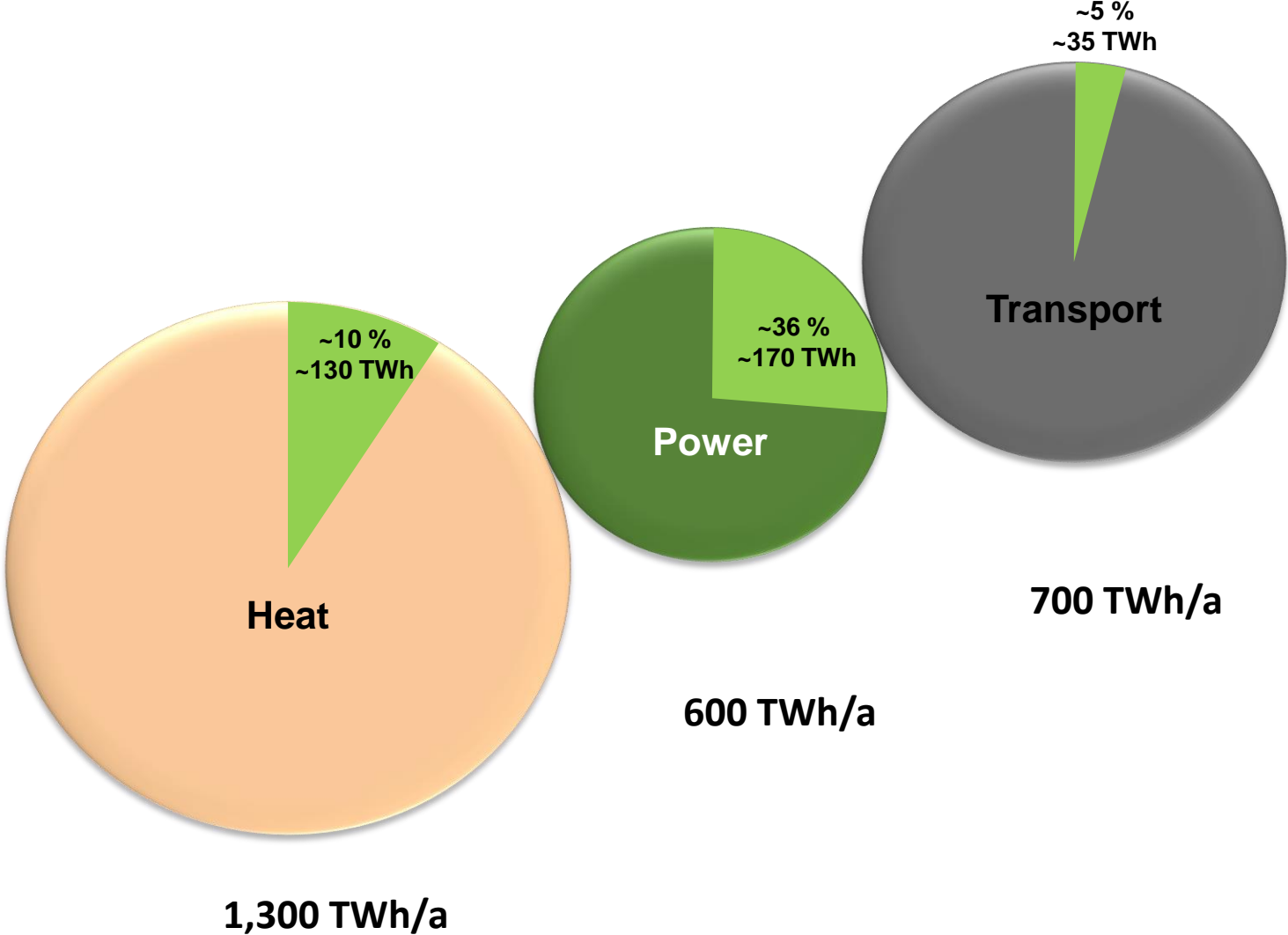
European Union represented by the European Commission



A portfolio of clean, efficient and competitive solutions based on fuel cells and hydrogen technologies in energy and transport



Renewable shares



Source: RWE, BMU

Hydrogen – Key to support sectoral integration

Enable the renewable energy system → Decarbonize end uses

Enable **large-scale renewables integration** and **power generation**



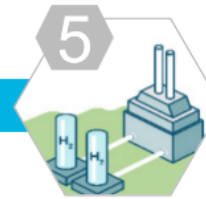
Distribute energy across sectors and regions



Act as a **buffer** to increase system resilience



Help decarbonize **transportation**



Help decarbonize **industrial energy use**

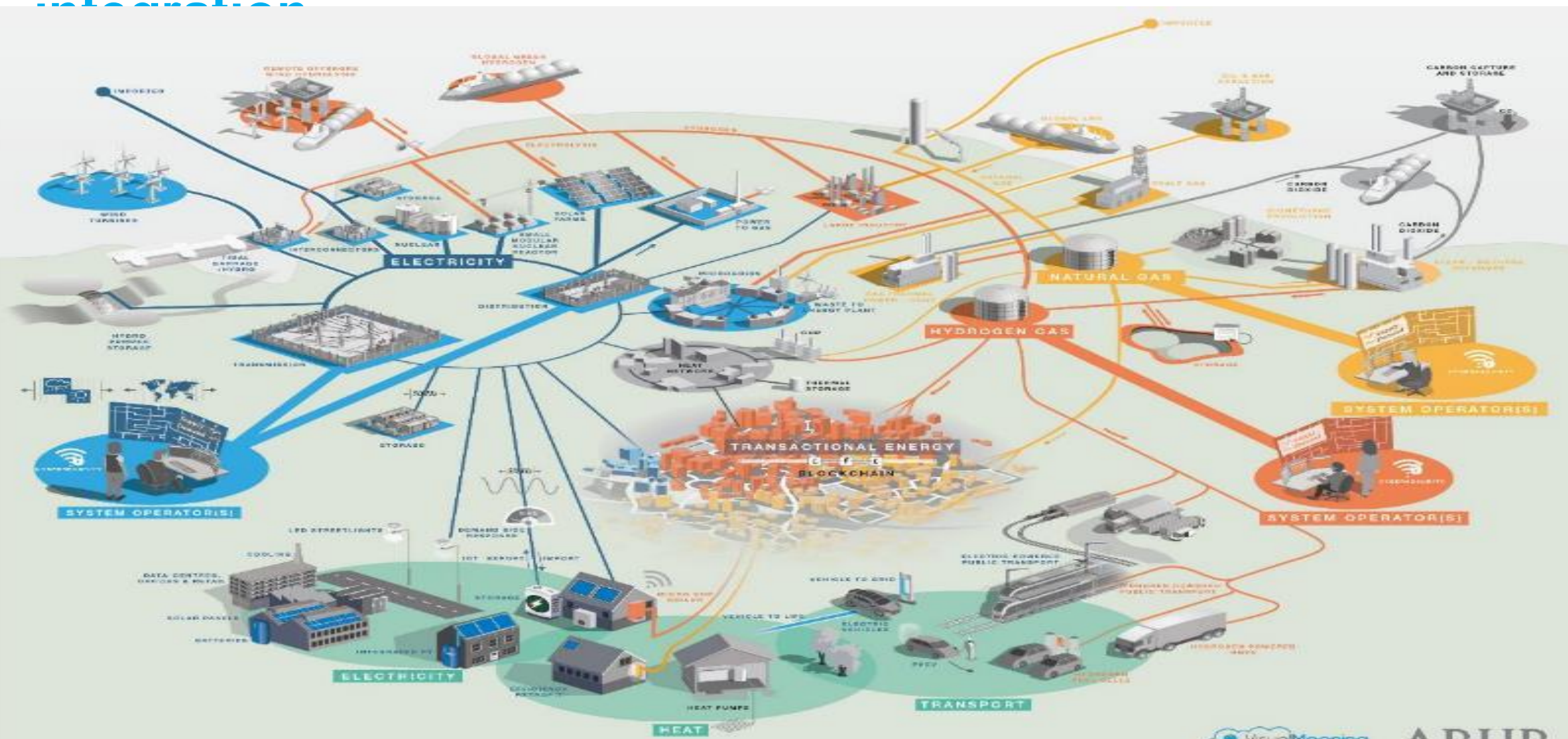


Help decarbonize **building heat and power**



Serve as renewable **feedstock**

Deep decarbonisation: Sector coupling & sectoral



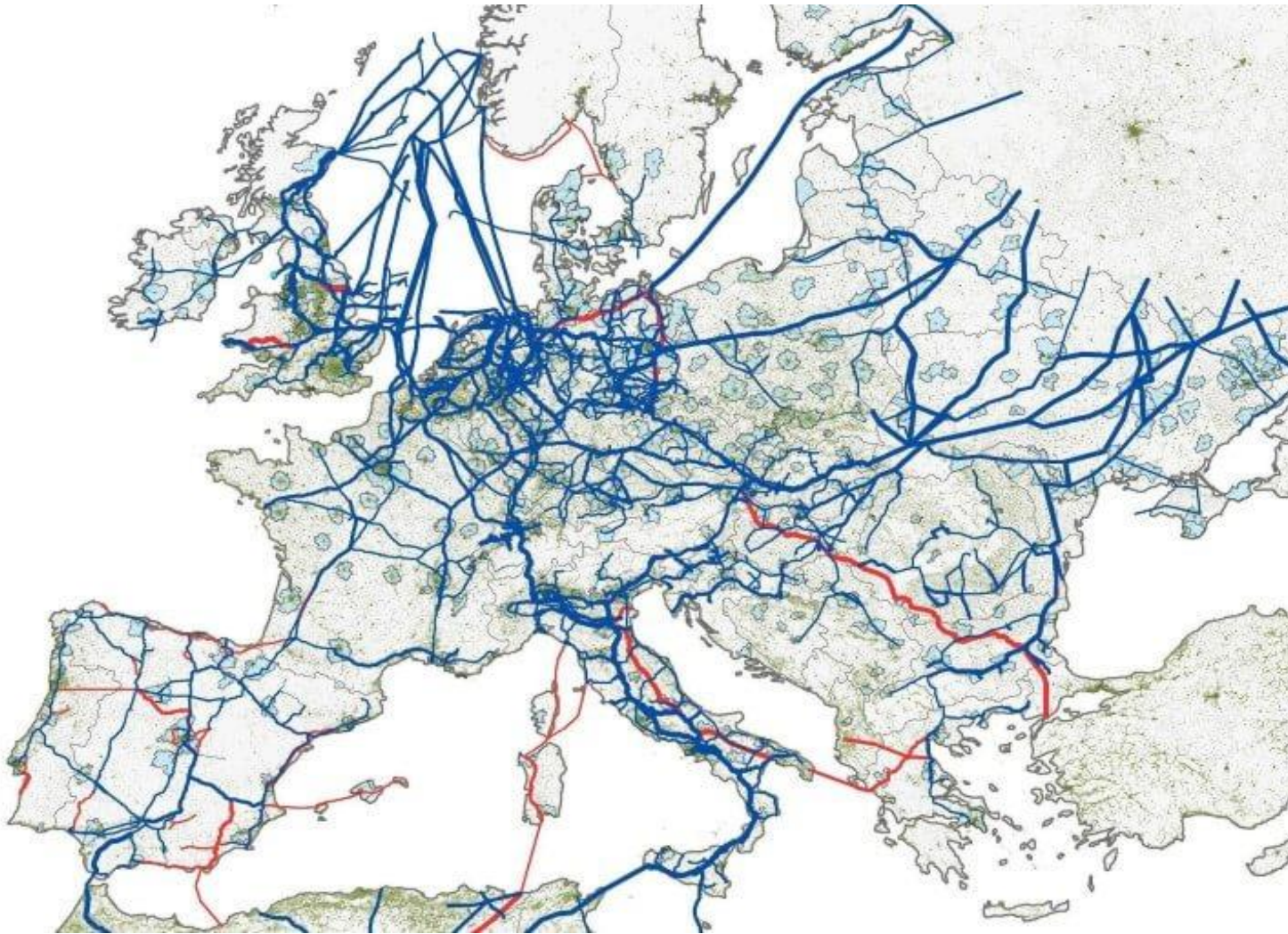
Gas Grid much cheaper than Power Grid

Energy transport capacity

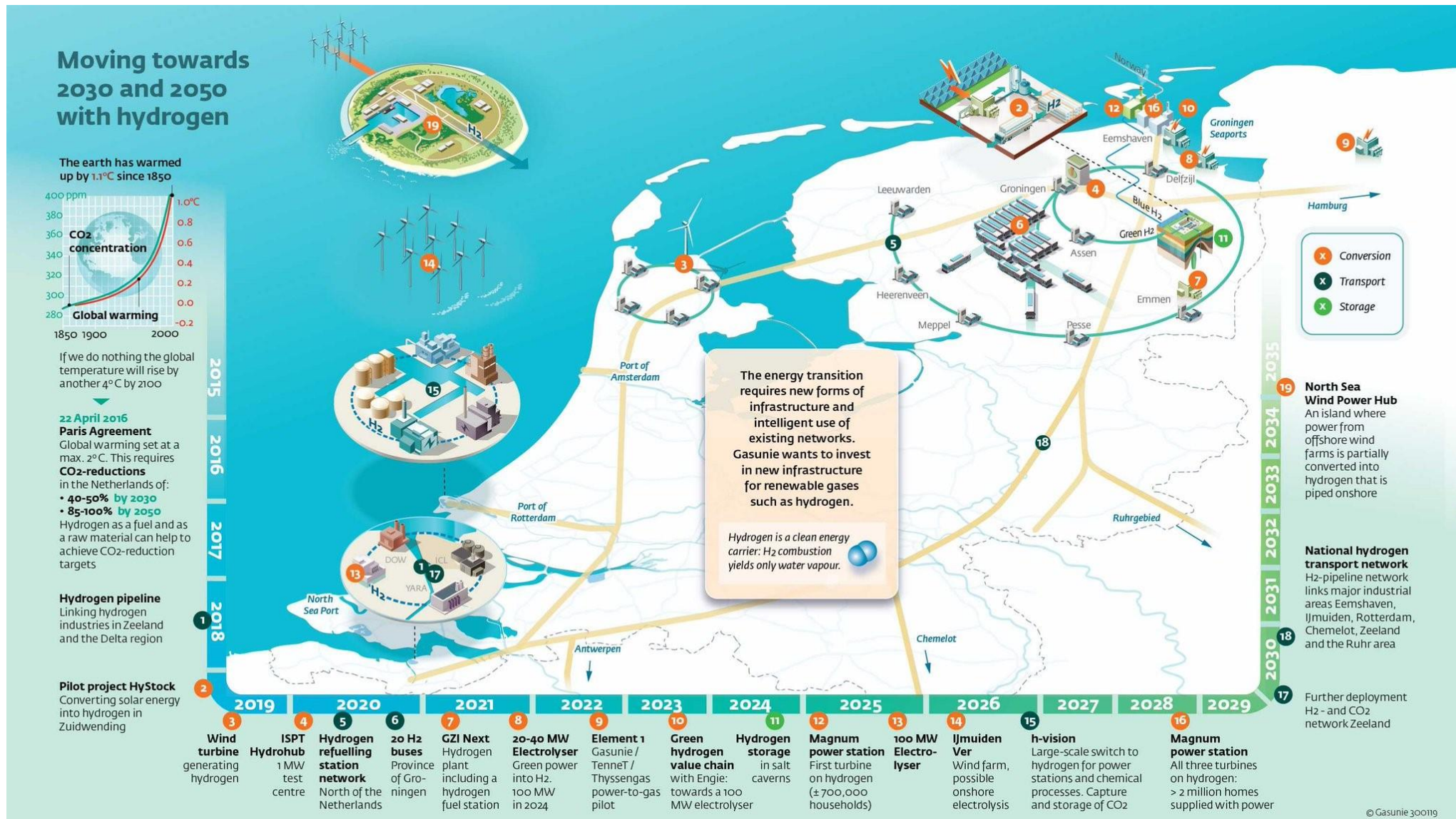


One gas pipeline (\varnothing 1,20 m) transports as much energy as eight power pylons (3 GW each).

EU Gas Grid: Basis for affordable decarbonisation



Hydrogen Valleys: H2 in The Netherlands



Shift happens!

Hydrogen enables you.



Hydrogen
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Contacts

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