

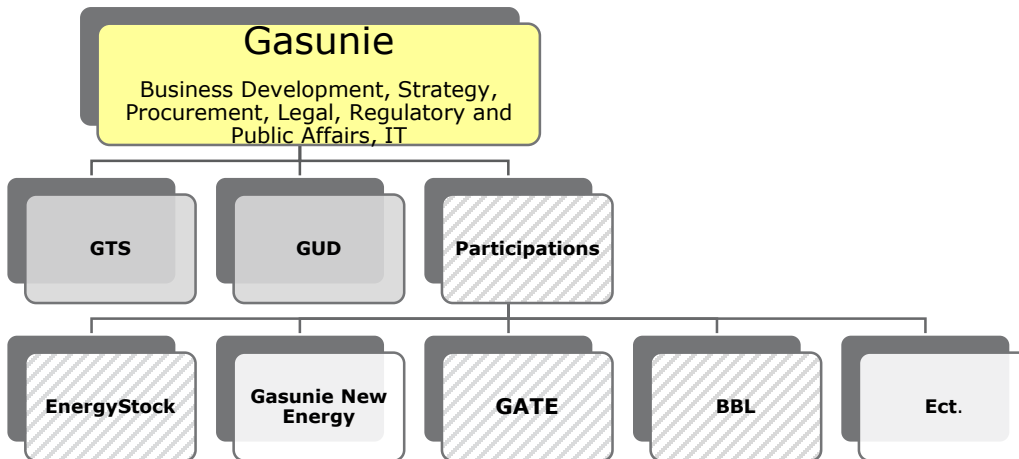
Legal Framework for H2 in the Netherlands

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Gasunie- a leading European Infrastructure Company



- Providing infrastructure services, transmission, LNG and Storage
- Fully ownership unbundled, two certified TSOs
- Storage services as part of unregulated service
- Shareholder: Dutch Ministry of Finance
- Leading principle of third party access

Gasunie New Energy

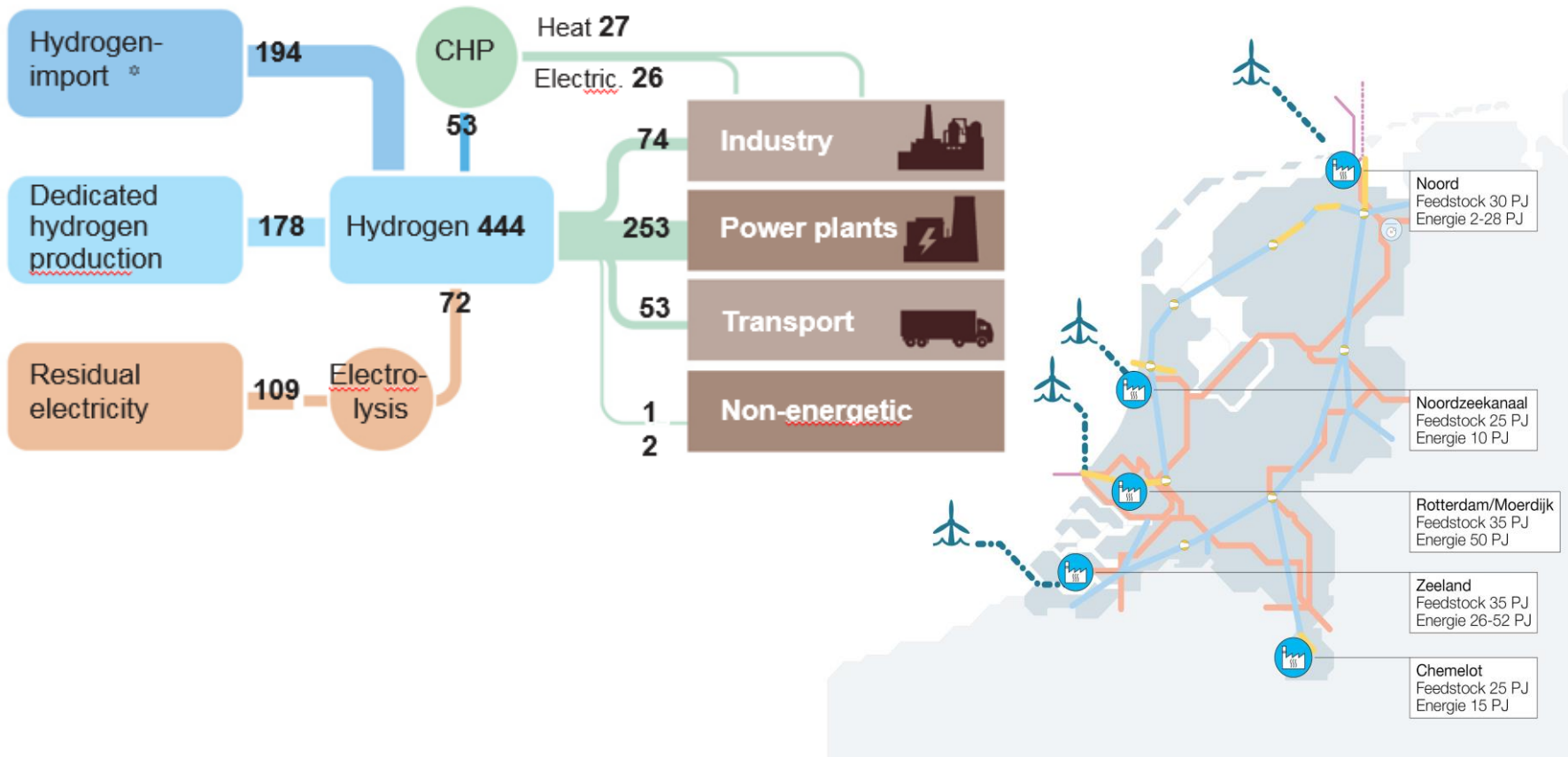
Objectives

1. Reduce Emissions by smart use of gas
2. Increase share of green gases in the energy mix
3. Prepare energy networks for decarbonized/ carbon neutral gases

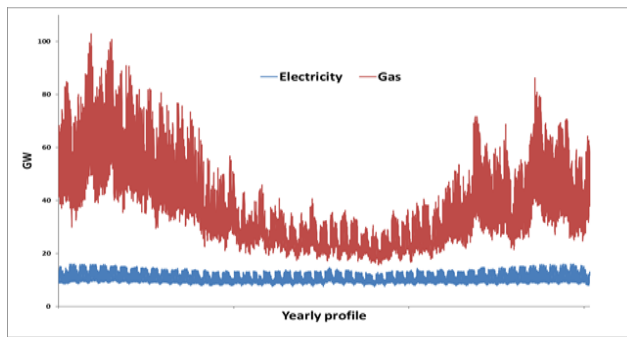
- ✓ Upscaling of innovative and renewable energy-solutions
- ✓ Cooperation with partners, synergies between market players
- ✓ Gasification of biomass, power-to gas and H₂, heat and geothermal.



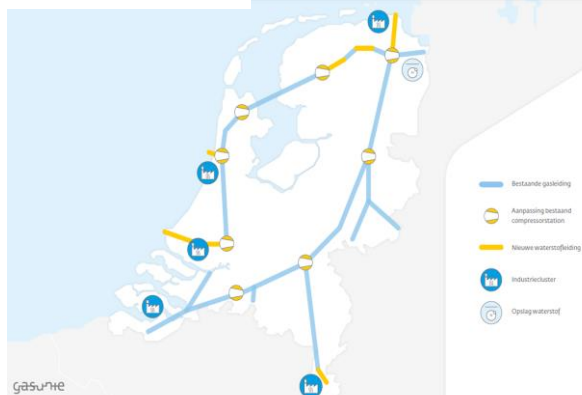
Hydrogen 2050



P2G as linking pin



Transport

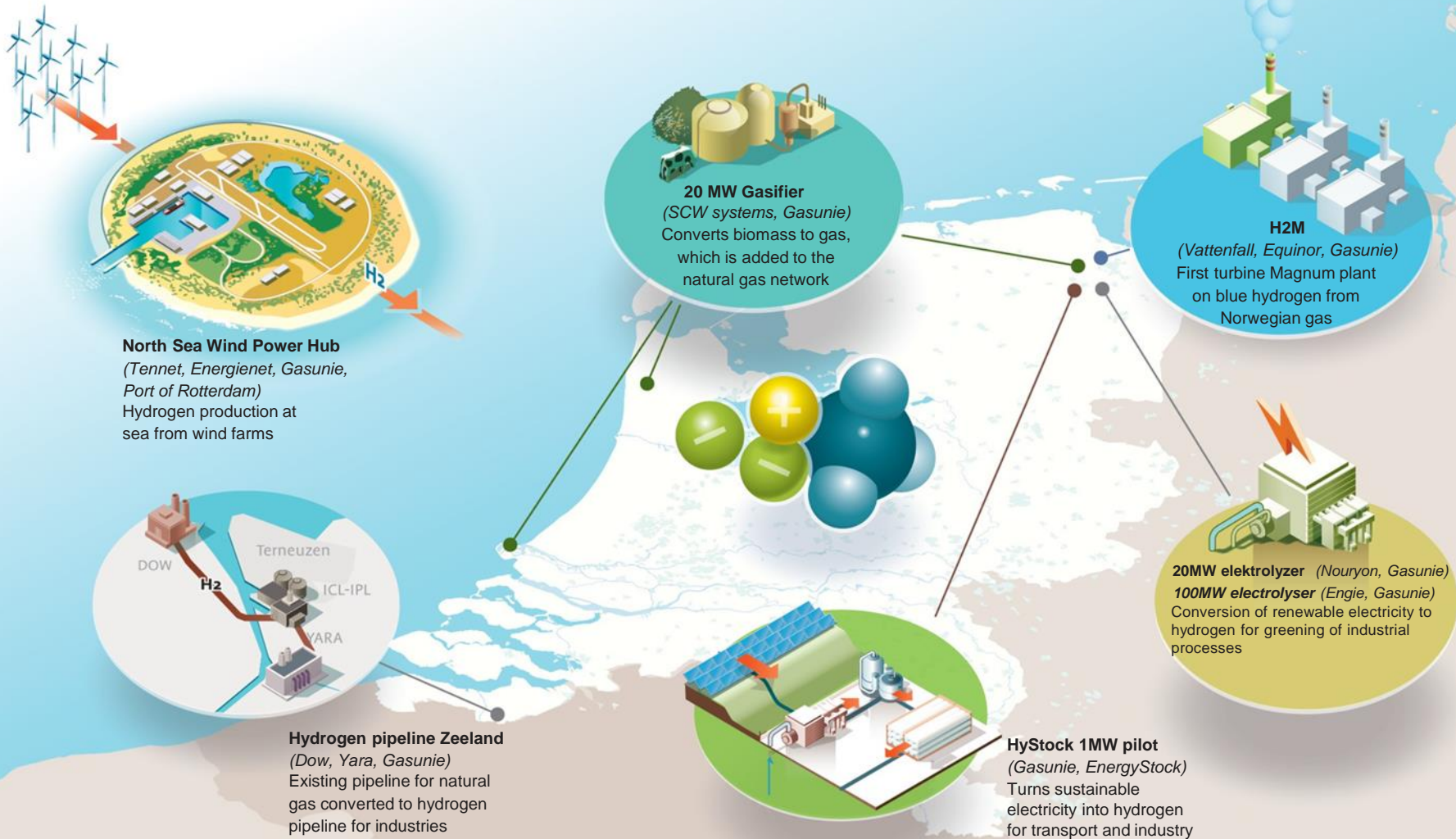


Example of GNE Project: H2 in Zeeland



- H2: waste product for Dow Chemical, a feedstock for ICL/Yara
- Available CH4 pipeline in Zeeland
- Conversion of pipeline to H2 transport
- Substantial CO2 emission reductions
- Technical aspects minimal

Overview of projects



Funding



- Bridge between innovation and market rollout
- In NL funding is focused on where technology is at the abatement curve- Competition between solar, wind, H2, biomass, CCS
- How to reward system benefits/ savings?
- Value chain approach- Role for EU funding?

