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**Diversification and the energy transition**

By

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The views expressed are those of the author and do not necessarily reflect the views of UNCTAD.

# Diversification and the energy transition



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11 October 2023

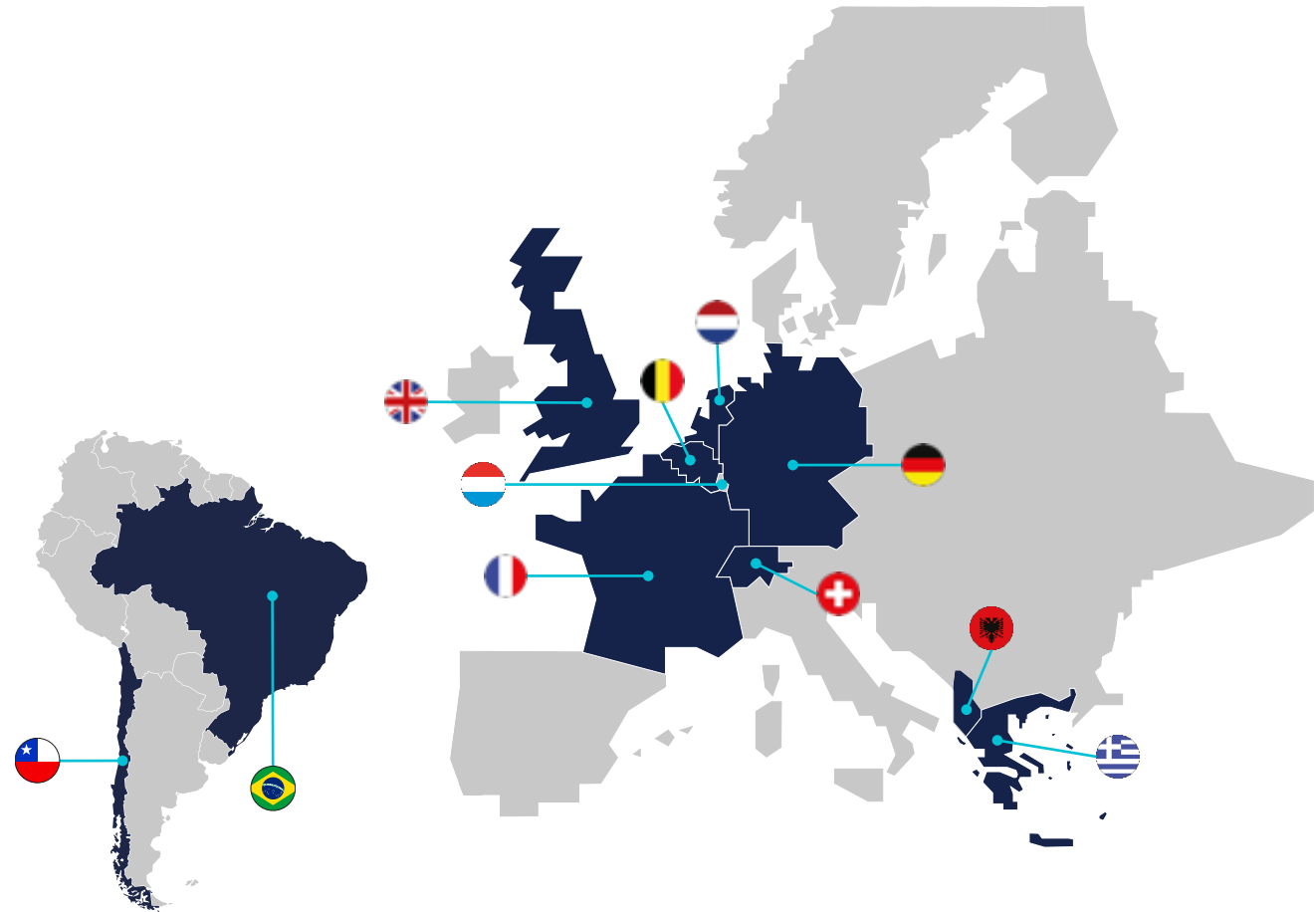


# Who we are?

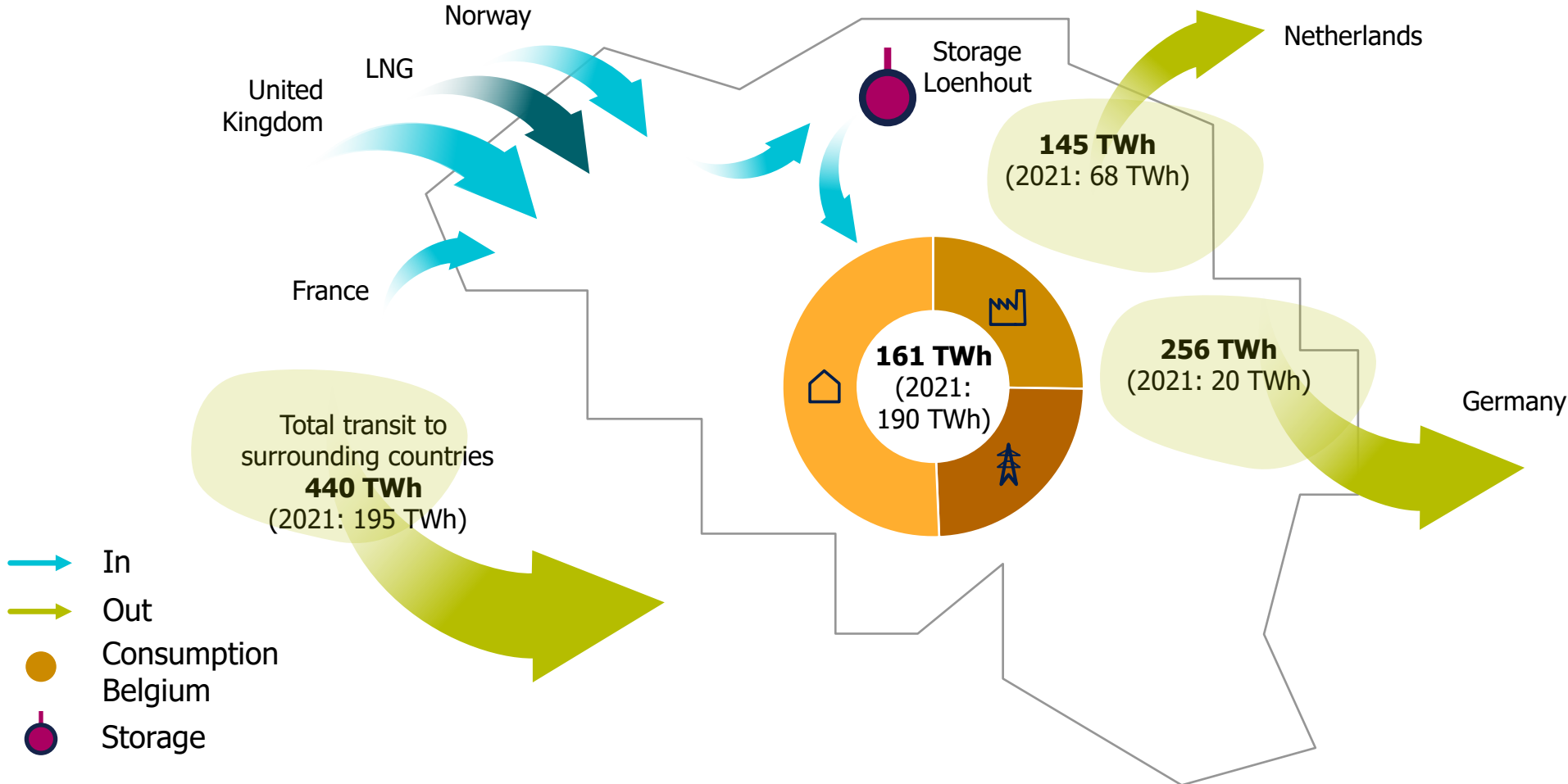
## 4 facts about Fluxys

- 1 Fully independent infrastructure partner headquartered in Belgium
- 2 Strong European presence with associated companies across Europe and entities in LatAm
- 3 A growing group of 1 300 employees
- 4 Purpose-driven company committed to the green transition

shaping together a bright energy future



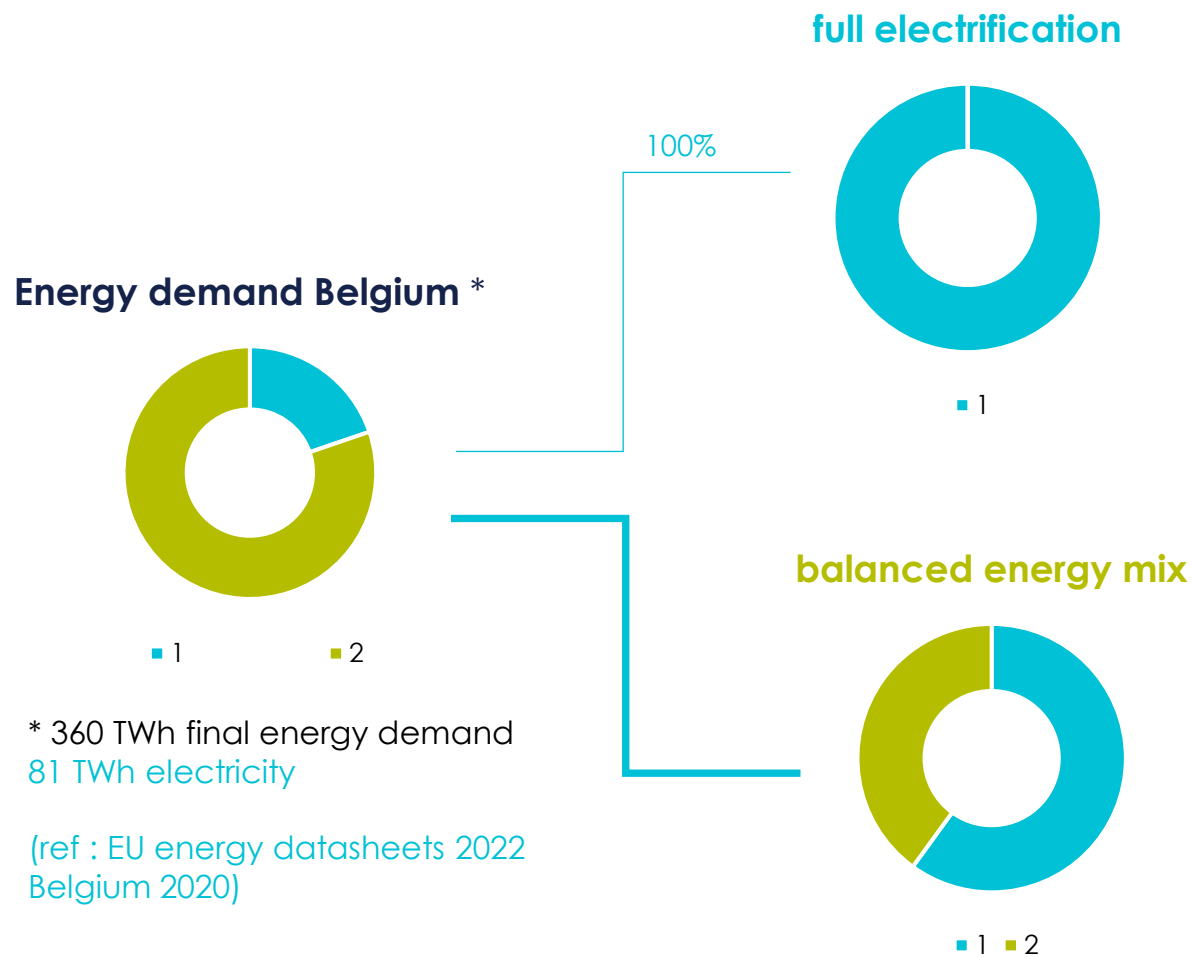
# Fluxys' highly interconnected network in Belgium offers optimum source diversification options for security of supply



Reference year: 2022



# We need a robust energy mix that comprises both clean electrons and molecules to meet all energy needs



## Very challenging

- **Limited potential** of domestic sun & wind power generation
- Sun & wind power generation not always available: **balancing supply and demand key challenge**
- **Mid to high temperature industrial processes** better served through green molecules

## A balanced energy mix

- Clean molecules vital to provide **sufficient energy and flexibility** to balance supply & demand
- High energy intensity of molecules allows for **efficient storage and long-distance transport**
- Clean molecules **address both energy and feedstock needs**

hydrogen



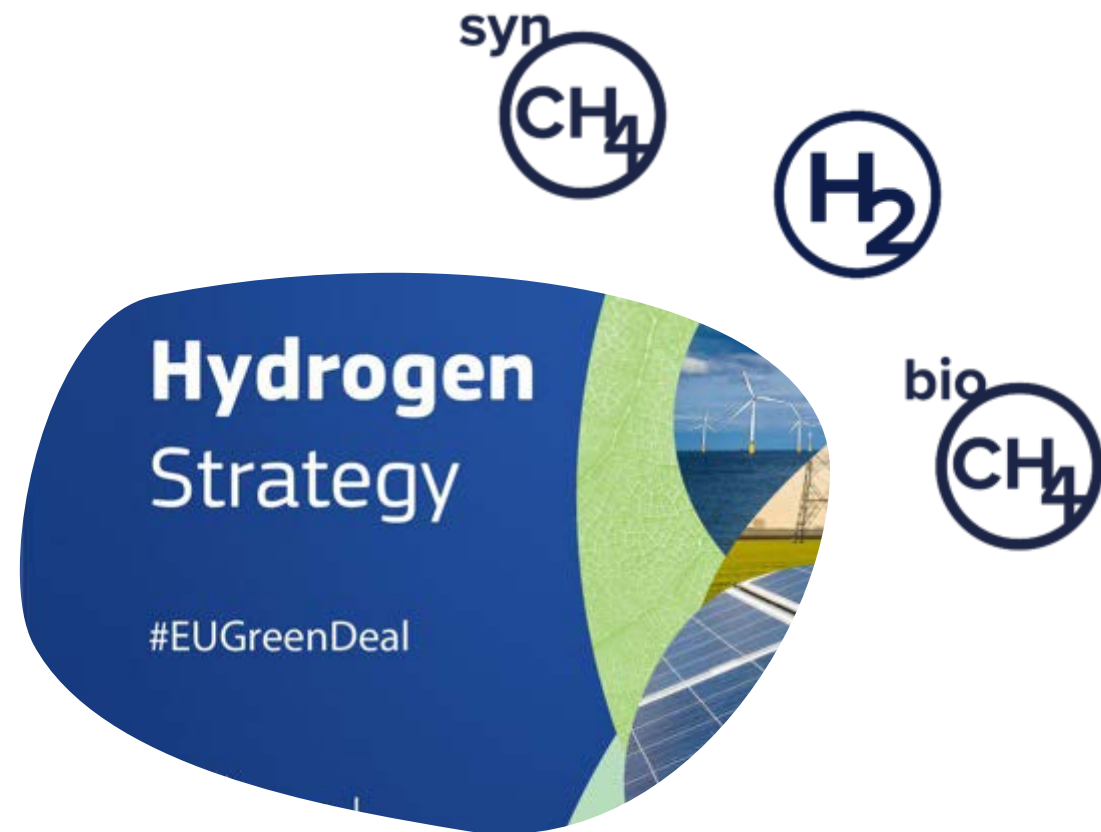
ammonia



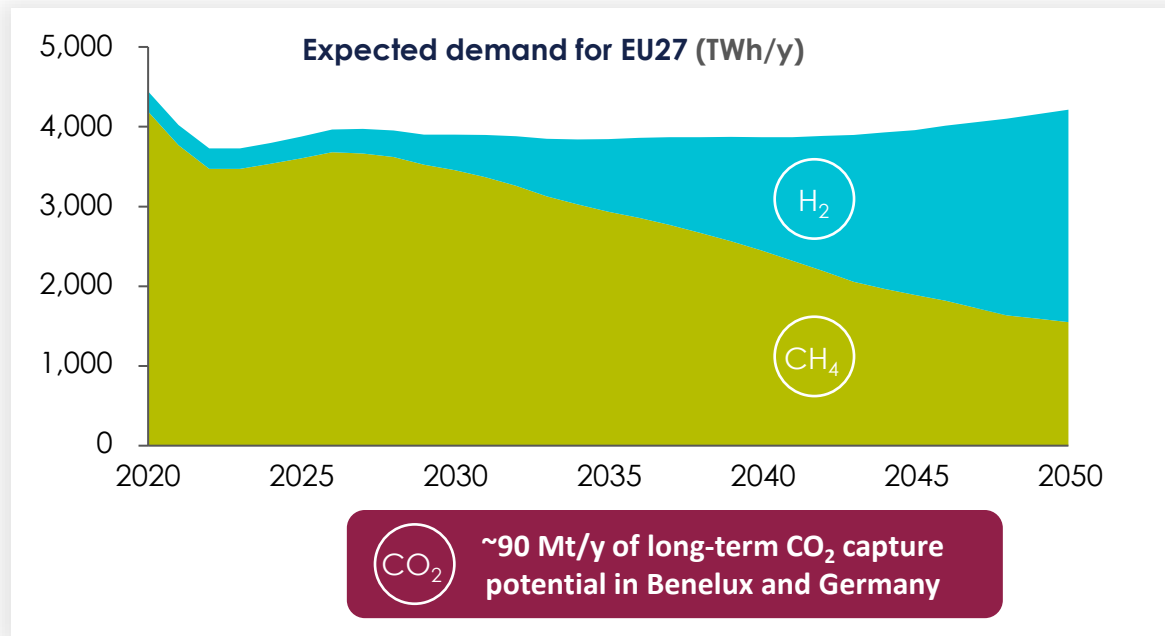
synthetic/biomethane



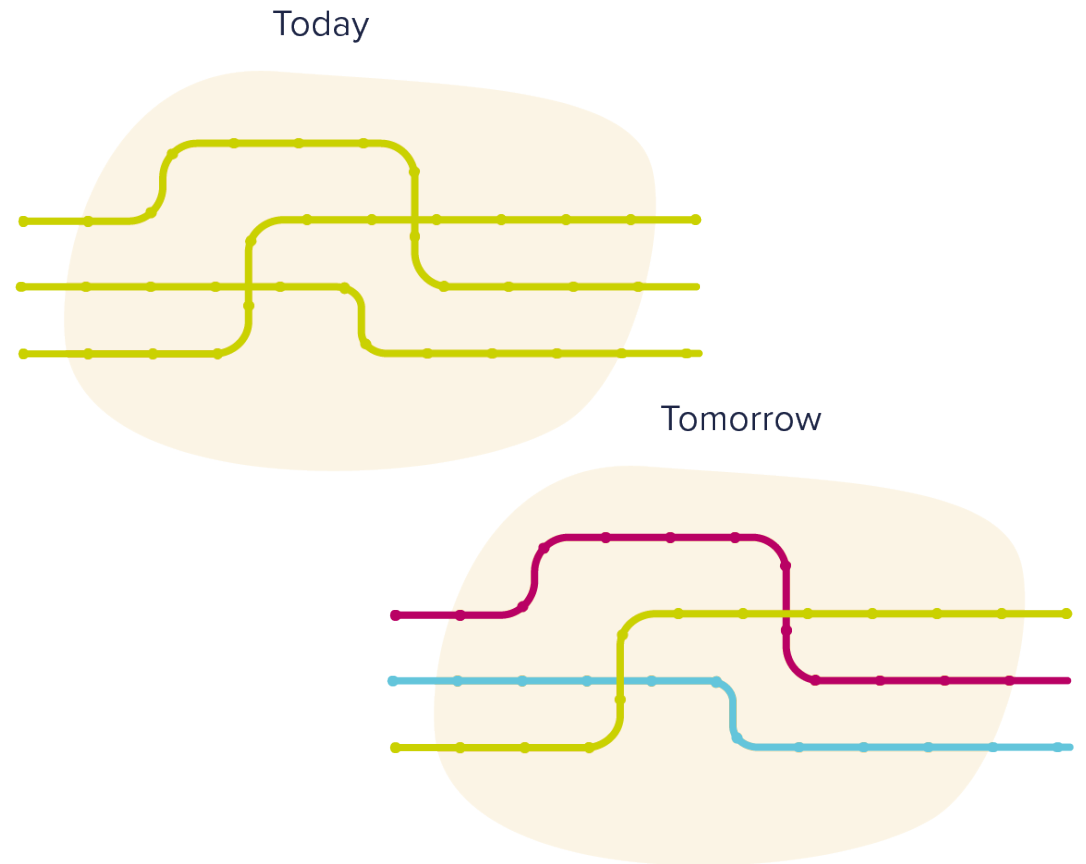
We believe in the **power of molecules** and an integrated energy system with both electricity and molecules,  
in line with Europe's Green Deal



# We are ready to sustainably re-use and develop its infrastructure into a multi-molecule system



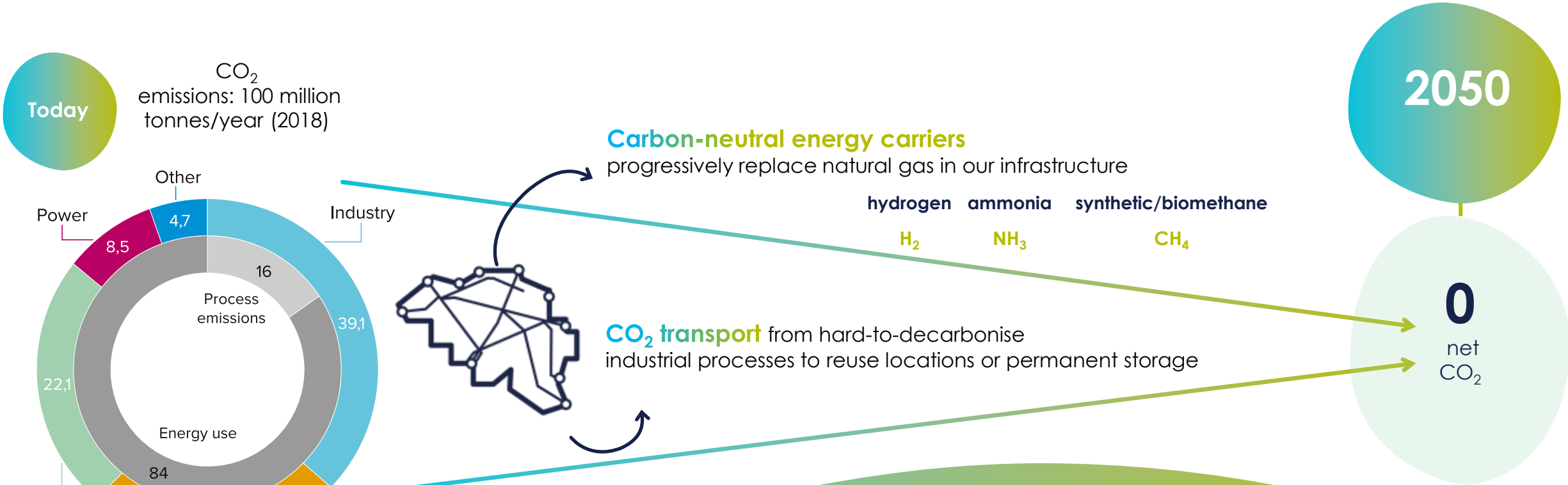
CH<sub>4</sub>    H<sub>2</sub>    CO<sub>2</sub>



Sources for expected demand: S&P Global (IHS) base case, ETS database, Fluxys analysis



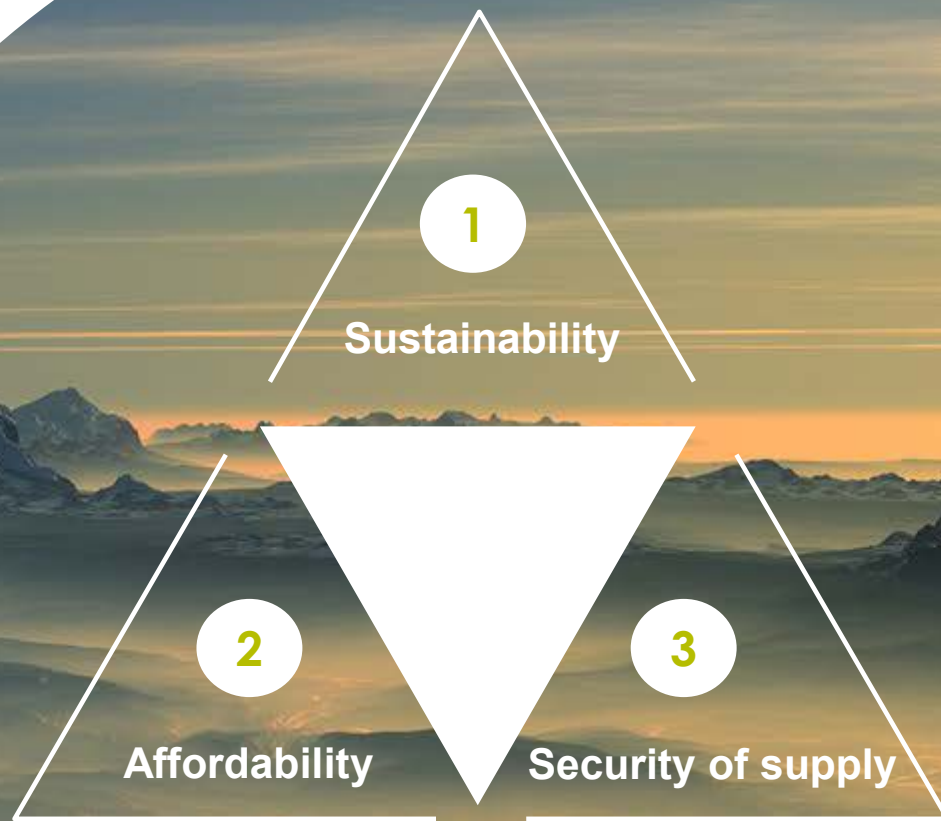
# With our infrastructure we can make a key contribution to decarbonisation



Natural gas = key energy bridge to a carbon-neutral society

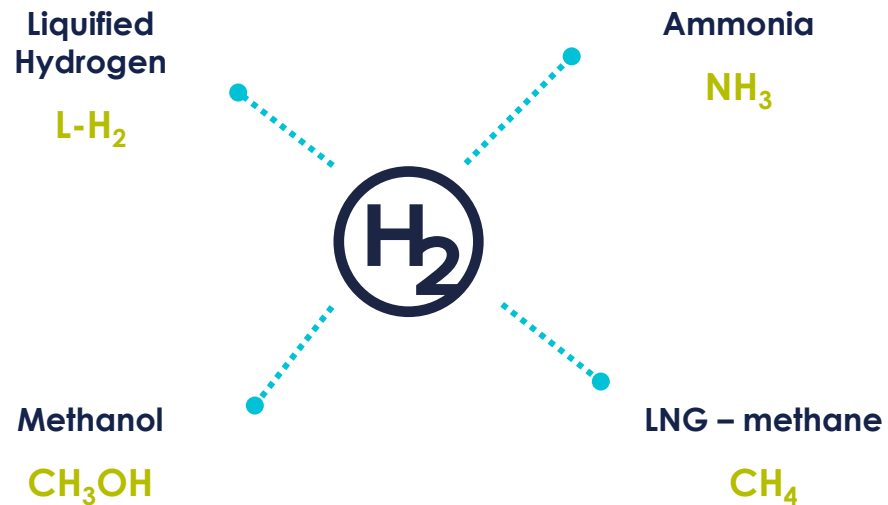


# Always 3 important variables to keep in balance



# The import of low carbon molecules from outside EU likely to become necessary

Wind and sun rich regions outside Europe: hydrogen export through different carriers



# Belgian hydrogen import coalition demonstrating technical and economical feasibility of imports

Extensive logistics chain analysis for several regions with promising conditions for efficient hydrogen production



**fluxys** 