

# Waterstof, the next level



Y. Vercammen

Director Transformation Projects

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shaping together  
a bright energy  
future

# Fluxys: independent midstream gas infrastructure company

Our strategy: en route for a green tomorrow with investments in Belgium, Europe and beyond



Be the transporter of the future energy carriers

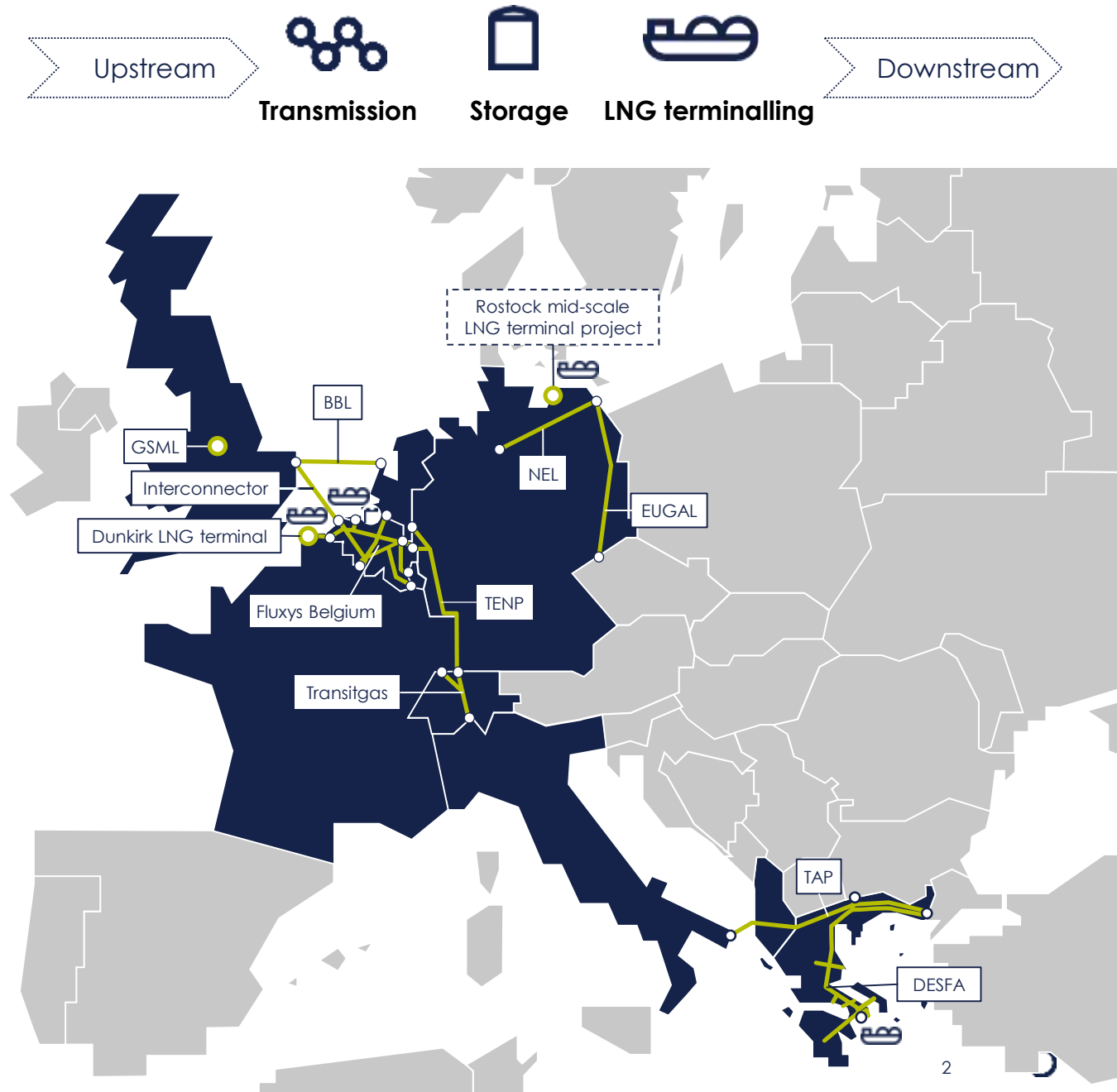
We support biomethane initiatives, invest in hydrogen and CO<sub>2</sub> transport projects and explore new technologies



Be fit and grow in Belgium and Europe



Invest outside Europe



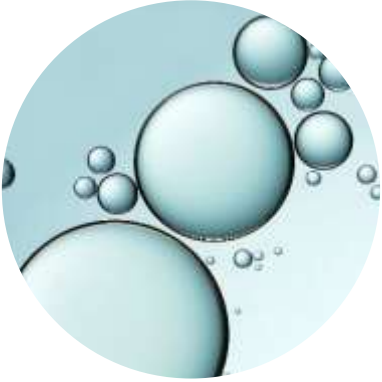
# Fluxys partner in many early development projects in Belgium



Biomethane market  
development

•

Biomethane  
injection and  
transmission



Hydrogen market  
development

•

Power-to-hydrogen &  
hydrogen transmission  
and import



Carbon capture  
and  
utilisation/storage

•

Carbon transmission



# Making the right choices today for a well-balanced energy system is the key to a successful energy transition

A climate-neutral Europe by 2050

**A Green Deal for Europe**

Need for a hybrid energy system: green electricity, green gases and biofuels

By 2030: increase the reduction in greenhouse-gas emissions from 40% to 55%

**EU recovery plan**

European Green Deal instrumental to sustainable recovery and growth: increasing the production of green electricity, hydrogen and biomethane and making greater use of carbon capture

An investment driver: €750 billion for the recovery of EU Member States – an opportunity to be seized to ensure the energy transition in Belgium

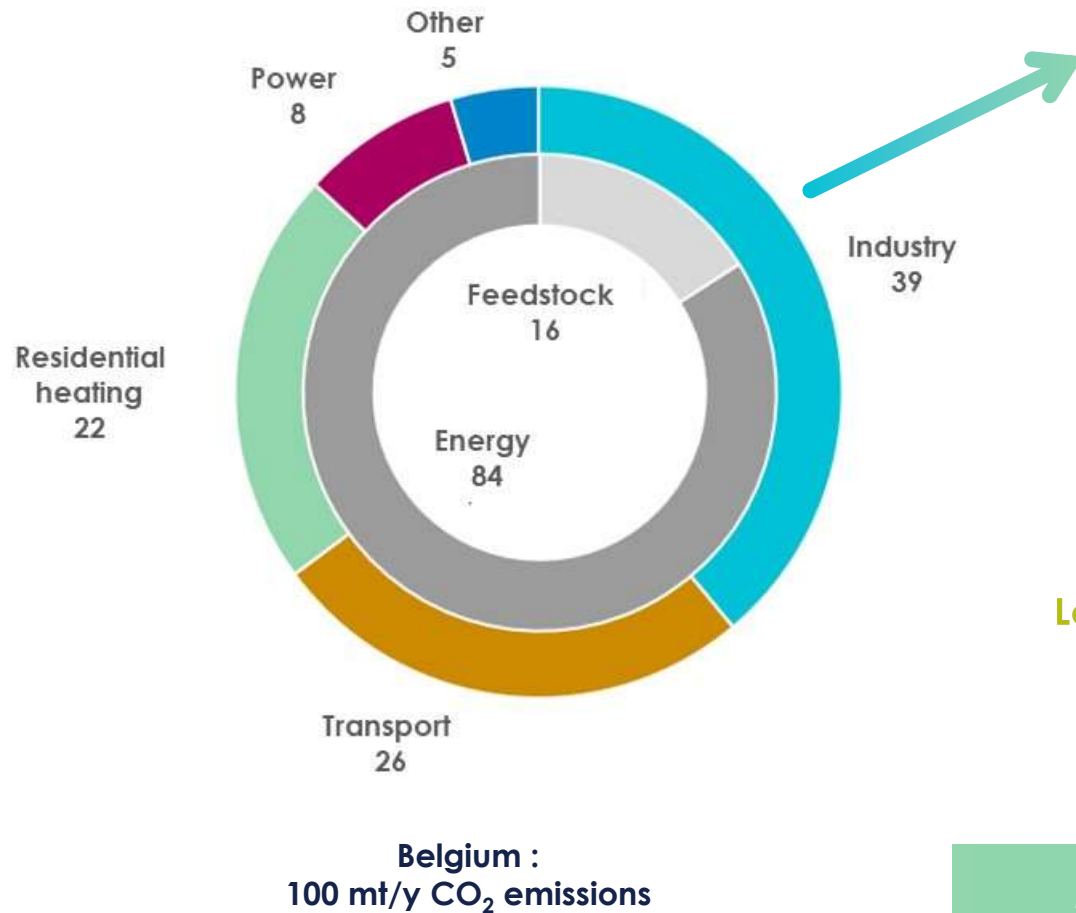
**Industry**

Through our contacts and projects: Belgian industry is ready to move forward.



Fluxys is already working on this at full tilt: let's join forces to step up this new momentum to achieve a carbon-neutral energy system

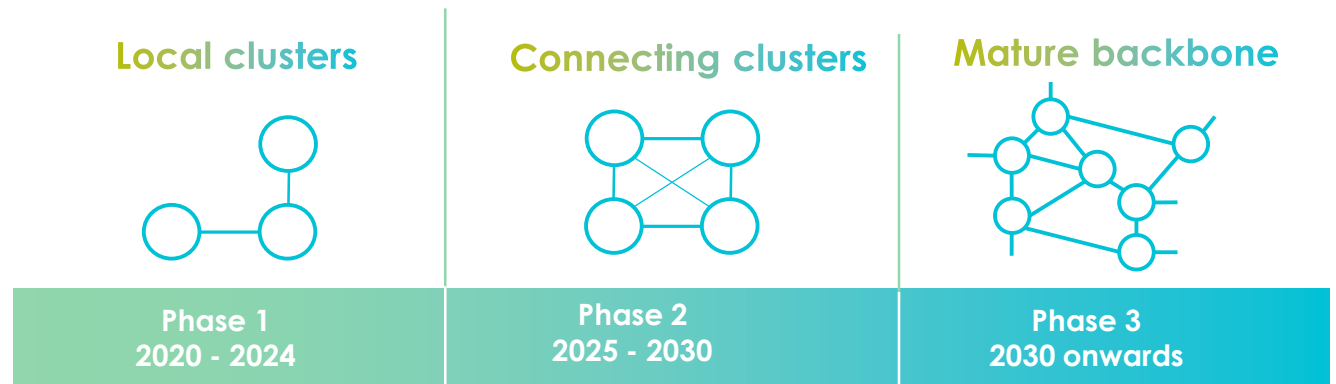
# Achieving Belgium's climate targets requires industry to become carbon neutral : Fluxys is joining forces with industry



Developing a **hydrogen/CO<sub>2</sub> backbone**

- enable industry to meet the strong CO<sub>2</sub> emissions reduction objectives, **particularly by targeting sectors requiring alternatives for electricity or with hard-to-abate processes**
  - Re-using infrastructure
  - Integrated / gradual development

## In line with European approach to develop hydrogen infrastructure progressively

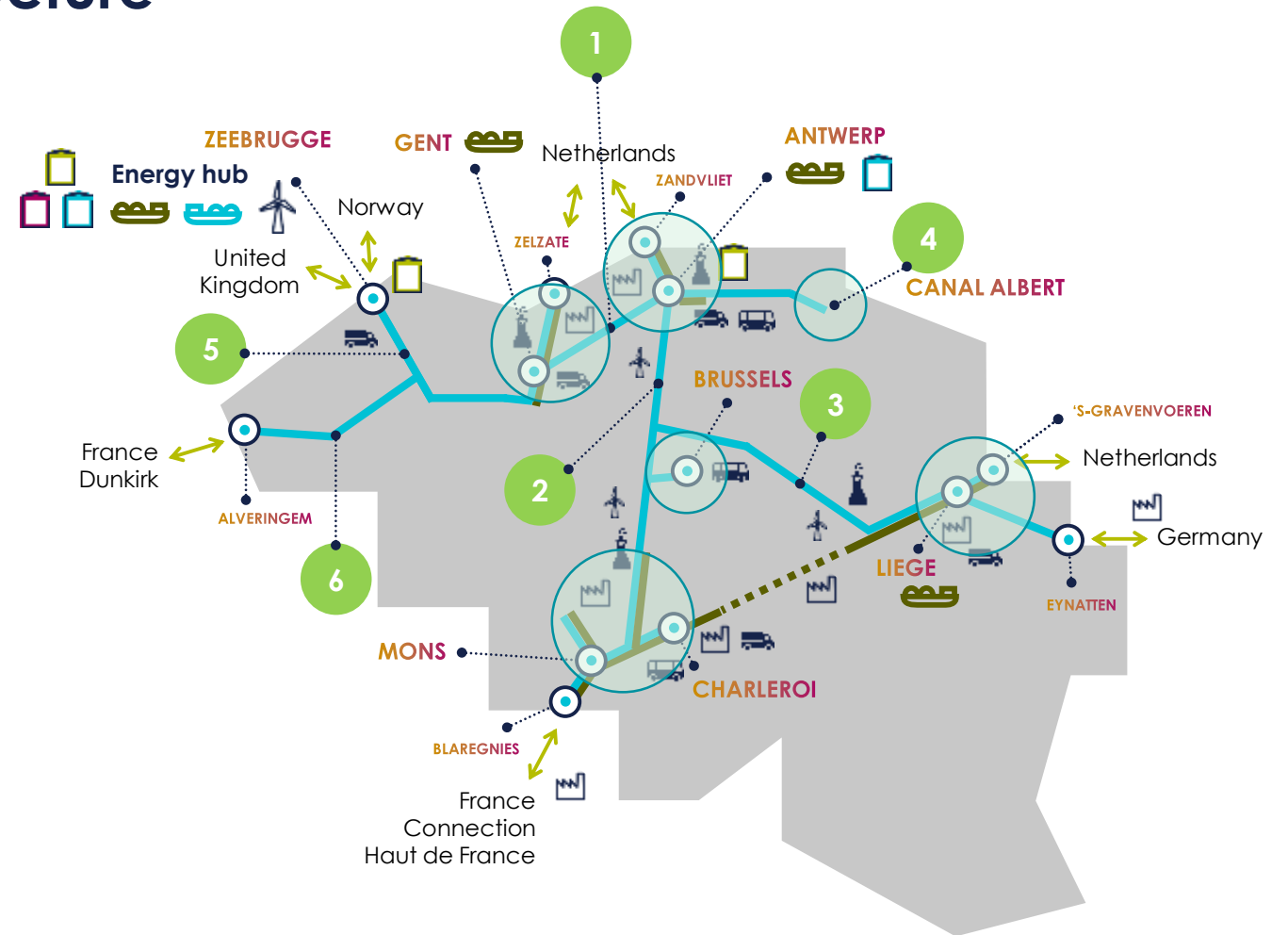


# Leading to an ambitious 2030-2050 vision for our Belgian energy infrastructure



The Belgian hydrogen/CO<sub>2</sub> backbone horizon 2030

- develop industry clusters
- connect and develop clusters
- provide additional interconnections
- connect and develop clusters & provide overseas import capacity and additional interconnections

Maximum reuse  
Minimal cost for society

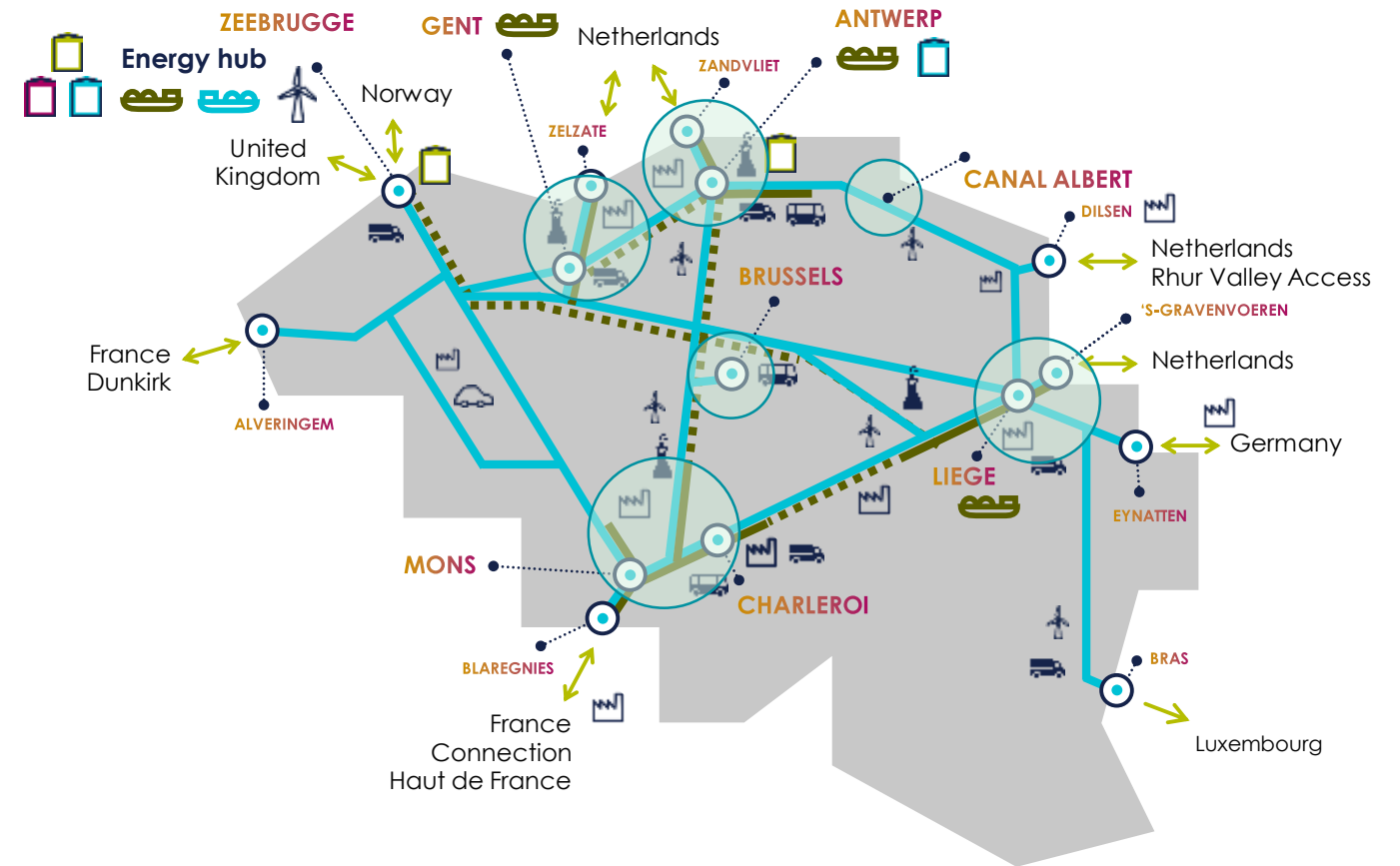
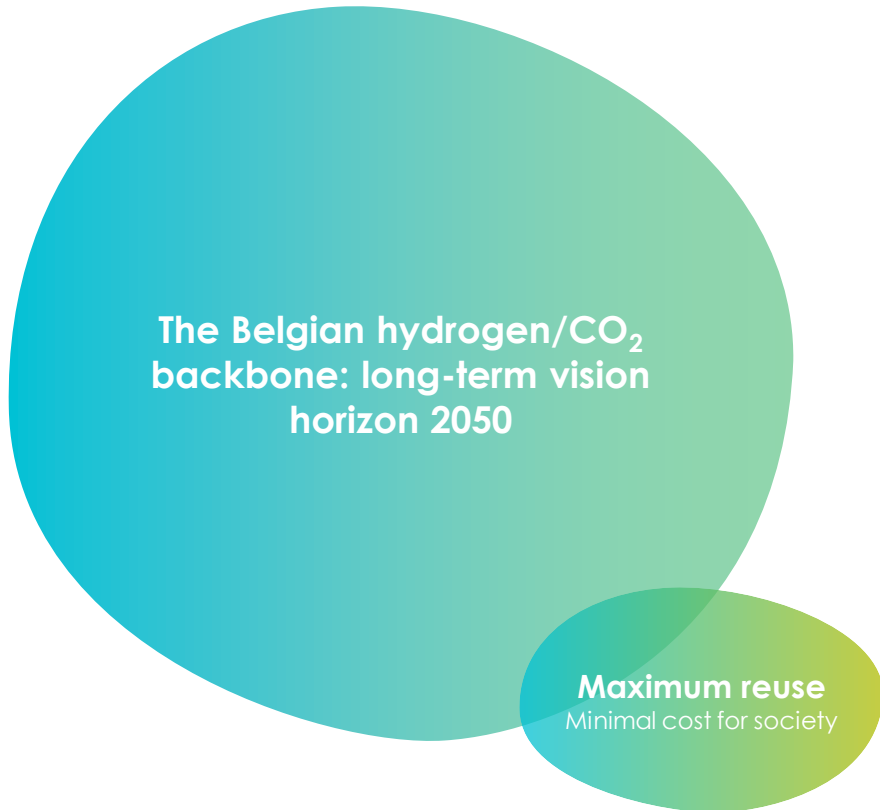


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|--|--|
|  CH4 storage (liquid / gas)                                   |  CO2 overseas export            |
|  CO2 terminalling<br>Buffer storage (liquid)                  |  H2 import (different carriers) |
|  H2 terminalling – buffer storage<br>blue hydrogen production |  H2 pipeline                    |
|  |  CO2 pipeline                   |

-  Power-to-Gas (e to H2)
-  Local carbon usage (eg. methanation)



# Leading to an ambitious 2030-2050 vision for our Belgian energy infrastructure



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- CO2 terminalling  
Buffer storage (liquid)
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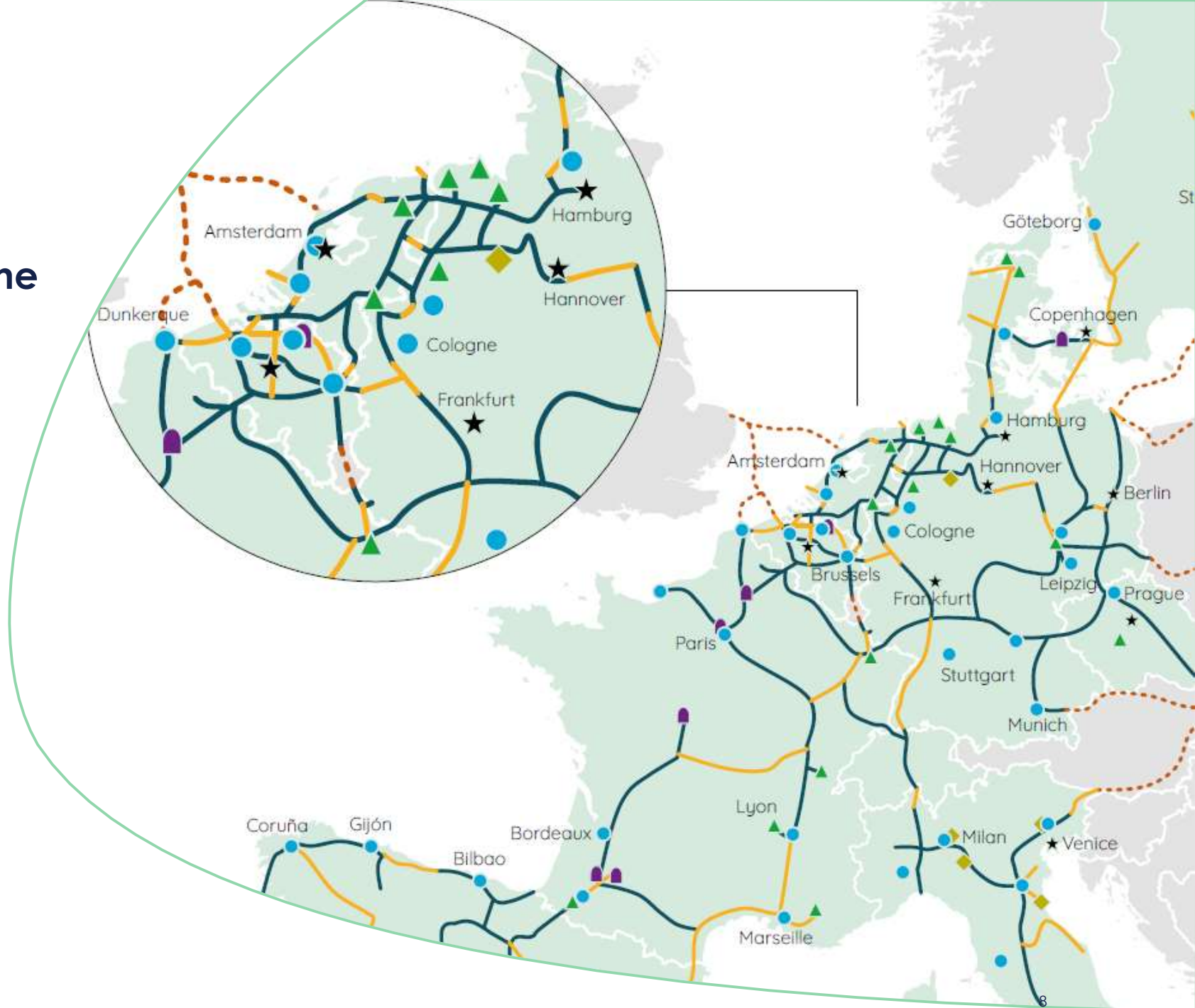


## As part of an integrated European Hydrogen backbone

- Re-using infrastructure
- Cross-border interconnections
- Import facilities
- Within EU wide regulatory framework

### Import hydrogen

**Offshore wind:** sea + inland pipes  
**Europe:** wind + sun regions: pipe + ship  
**Outside Europe:** import terminals + pipes





## In a nutshell

- Carbon neutral molecules will be key part of future energy system
- Fluxys fully committed to the energy transition and accommodating hydrogen
- Integrated Infrastructure approach to support the energy transition is required :
  - Maximising the re-use of infrastructure
  - Gradual buildup
  - Interconnections/import to ensure competitiveness and security of supply
    - Within Europe
    - From outside Europe

**fluxys** 