

Hyoffwind

Why Hyoffwind?

1. **Fit for 55 = package of 14 regulations and directives, covering the vast majority of our economy**

Expected impact :

- Road transport: Heavy duty, light commercial vehicles
- Maritime transport
- Mobility: buses, cars
- Energy: power, fuels
- Imported goods: Carbon Border Adjustment Mechanism
- Waste: waste treatment and garbage trucks

Measures expected to come into force between 2024 and 2026

2. **Actual ambitions expected to be reviewed with regards to European energy independency**

→ Higher ambitions, faster deadlines

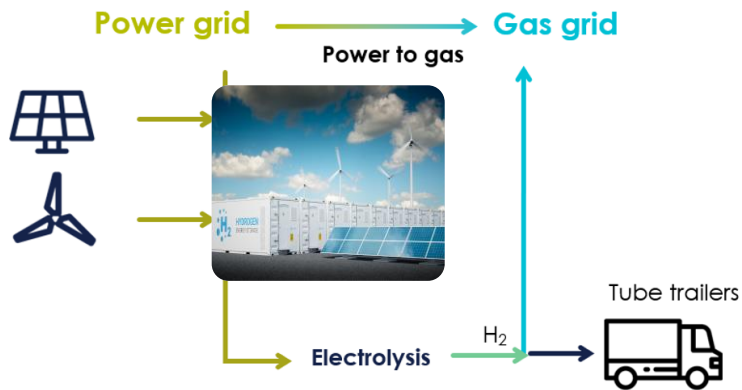
3. **Port of Zeebrugge = Energy hub and ecosystem as such**

Project description

Hyoffwind

Renewable electricity
Grid balancing
services

Blending in NG infrastructure (TBC)
Dedicated H2 backbone



- Production of 4 kton green hydrogen/year for phase 1 (25 MWe – scalability to 100 MWe).
- Compression to 90 bar (injection gas grid) and to 500 bar for distribution via tube trailer (supply for industry and/or mobility).
- Possible reduction possible till 1,14 Mt CO₂e GHG over 20 years (25 MWe).
- Grid balancing services via flexible hydrogen production.

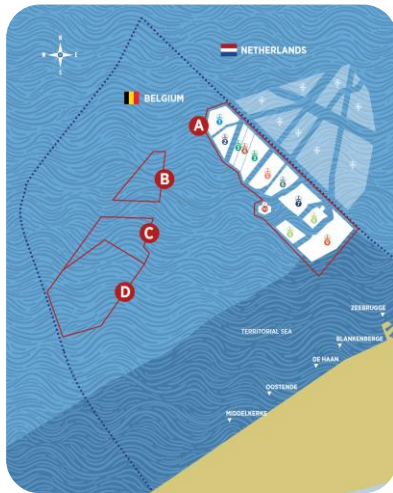
Location

Facilities will be located in the port of Zeebrugge (Fluxys concession – LPB site)



Located in Zeebrugge

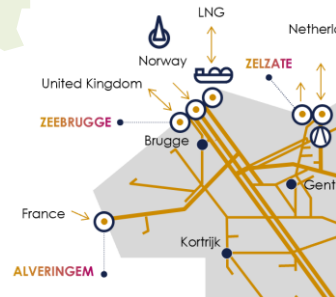
An energy hub for gas and electricity – Power to gas can enable integration of new renewables



3,1 - 3,5 GW additional offshore capacity to be developed by 2030



Gas



- Zeebrugge represents 12% of the import capacity of Europe (physical interconnection points with Norway, UK and presence LNG terminal)
- Zeebrugge offers the possibility to inject large amounts of green hydrogen in the natural gas grid without exceeding the limit of 2% H2 in the blend

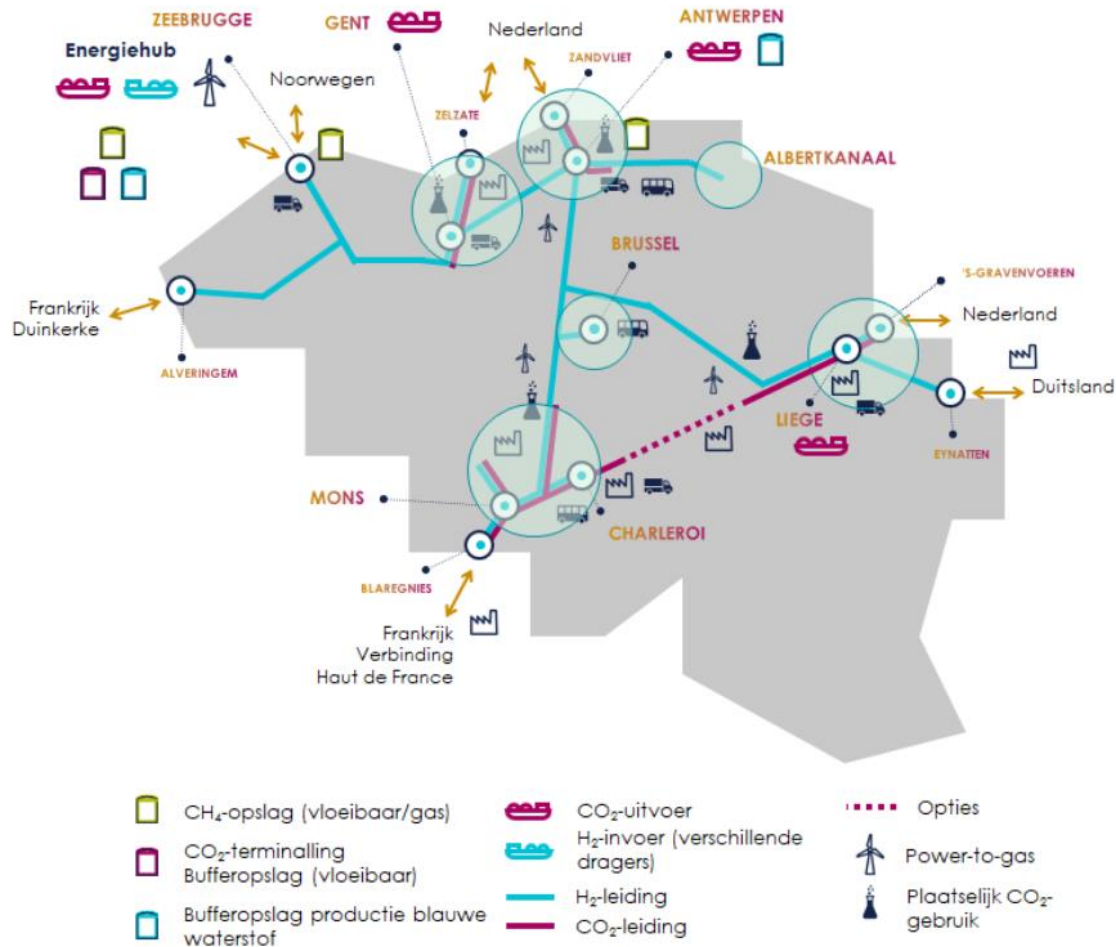


Electricity



- Electrical cables from off-shore wind farms arrive on land in Zeebrugge
- Nemo link to UK, new connection with UK (Nautilus)
- Modular Offshore Grid (MOG)

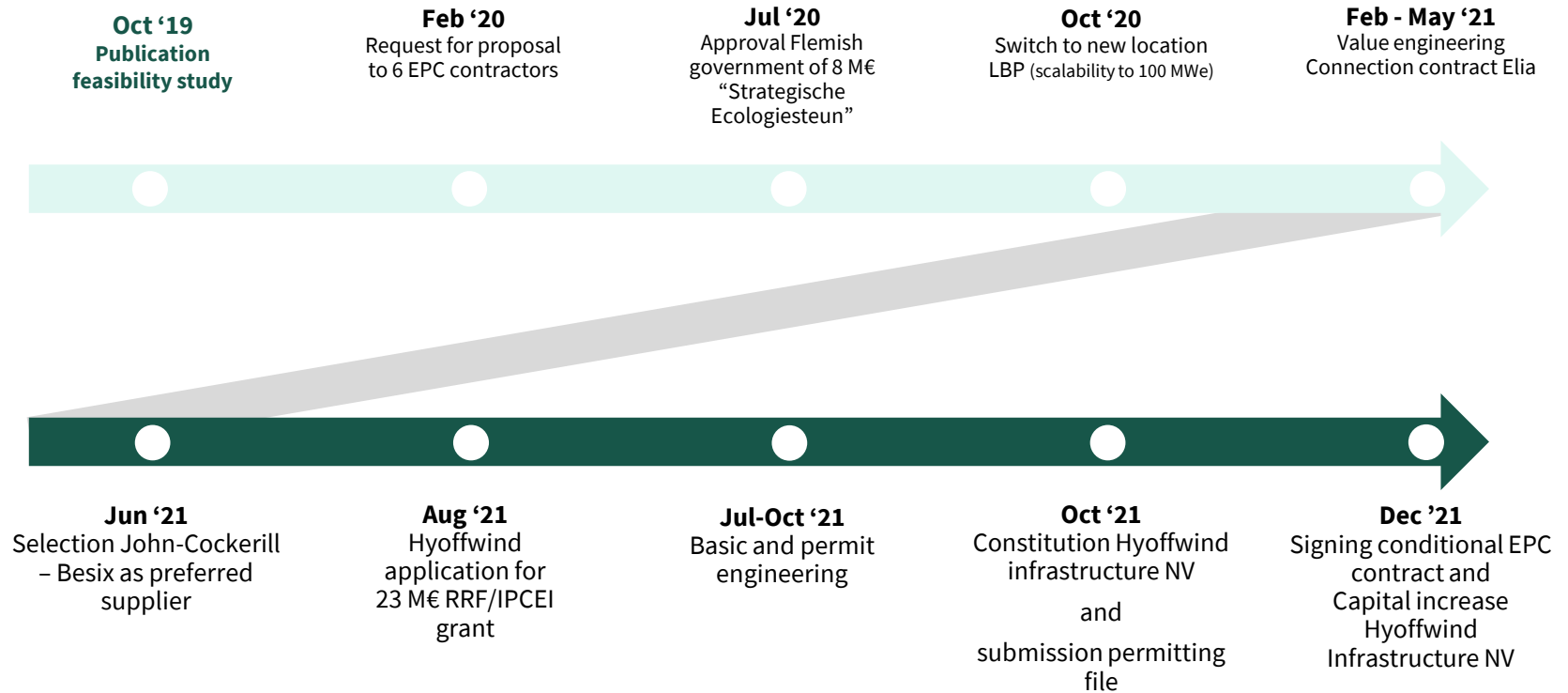
Fluxys plans a hydrogen backbone



Overview plant



Timeline



Timeline

- Based on the positive project development until now, Hyoffwind infrastructure NV signed a conditional EPC contract in December and executed a capital increase
- The Conditional EPC contract foresees possibilities to exit before purchase long lead items in case EU IPCEI Grant (23 M€) is not confirmed

