



**Port of
Antwerp**

Multifunctional port



Europe's largest integrated chemical cluster

Dual track approach



**Cargo
handling**



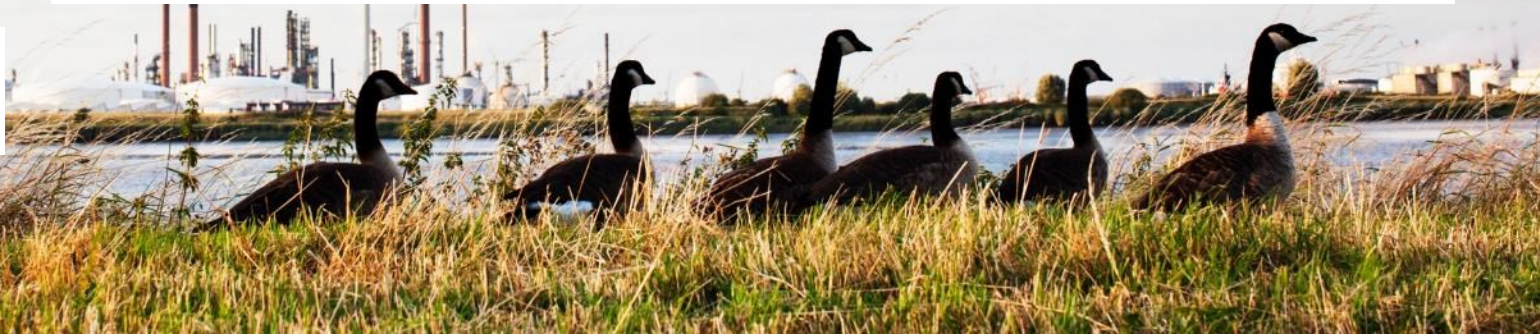
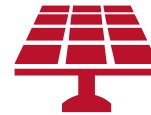
Logistics



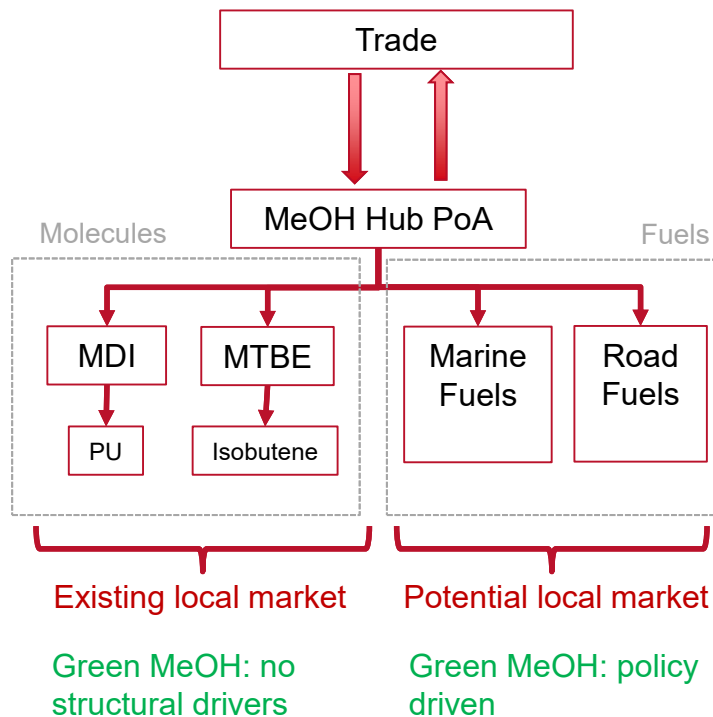
Industry



PLANET



The PoA and Methanol

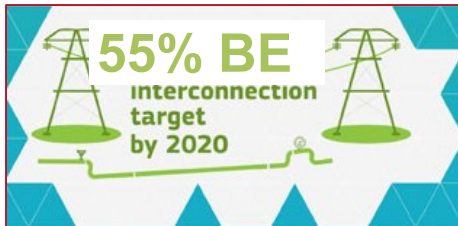
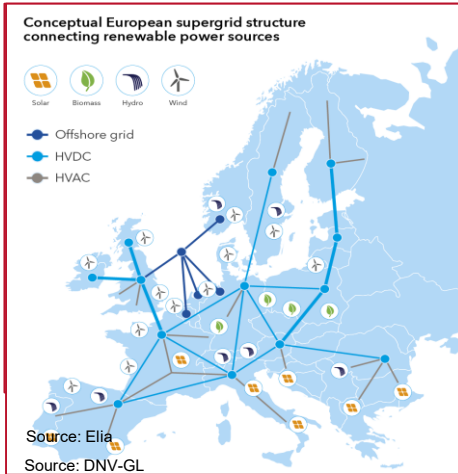


The concept is

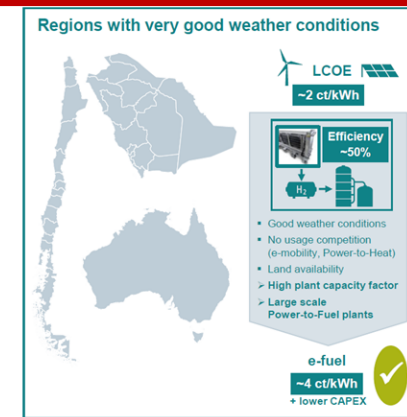
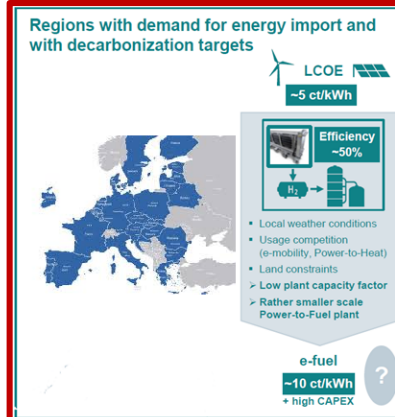
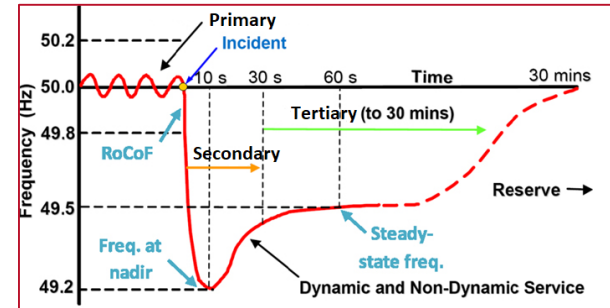
1. about integrating RE in fuels and feedstock through flexible operation,
NOT base load electrolytic hydrogen production

European Hydrogen economy

The two paths



+



- The **concept** is
1. about integrating RE in fuels and feedstock through flexible operation,
NOT base load electrolytic hydrogen production
 2. about recycling CO₂ from unavoidable point sources (and leaving fossil down under per direct)
 3. about producing a multi purpose liquid hydrogen carrier

The **goal** is to seek multiple business cases in order to reach economic viability

- partial import to amortise the flexible electrolysis operations (synthesis stability), to create hydrogen input redundancy (production continuity) and avoidance of H₂ buffering: fatal hydrogen now, renewable import in the future
- ruling in between flex value and MeOH value, with commodity MeOH as a floor
- hydrogen as a possible intermediate output (synthesis inavailability)

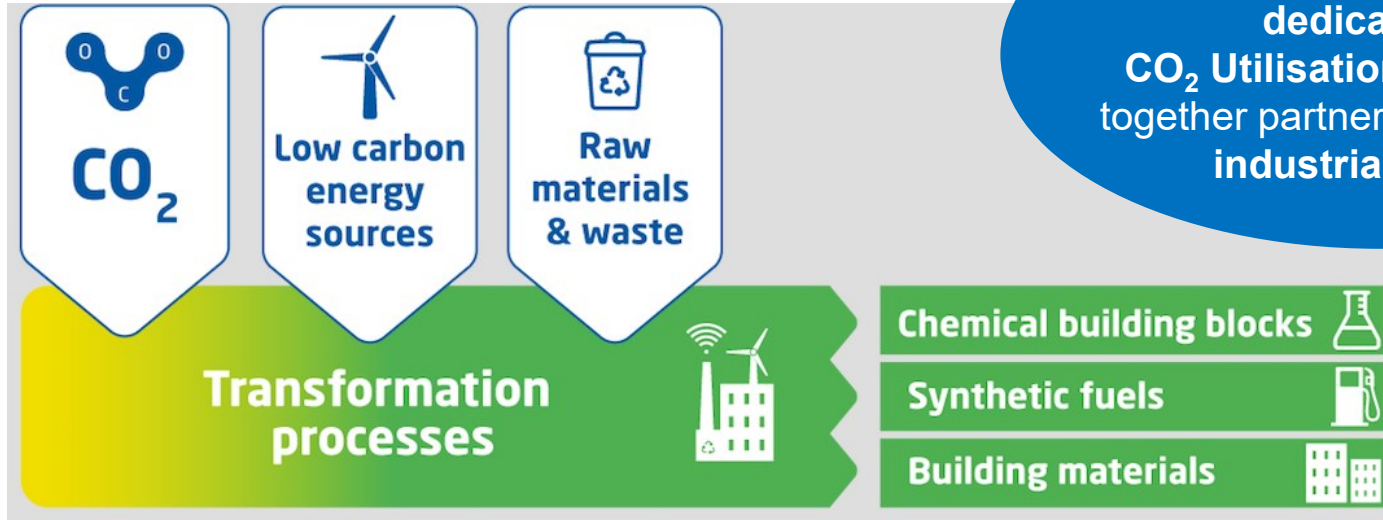
The **status** is the drafting of a partnership agreement amongst 8 cooperating industrial, government and knowledge institute parties, bringing in capital, know how, network

Market for low impact methanol – willingness to pay (a premium)

- Main market is fuel, being shaped by the RED:
 - Current RED (ILUC amendments) creates an opening for Advanced Fuels, but very limited timespan (RED II is being finalised);
 - RED II draft confirms the shift to advanced fuels including reFunobio's and carbon recycling fuels, but lots of uncertainties:
 - Only advanced biofuels get a sub target and are ensured of a market;
 - For grid connected concepts such as ours: delegated act of the EC by the end of 2021 to define the rules of renewable consumption from the grid;
 - For the carbon recycling fuels (CCU, waste-to): delegated act EC 2021
- Sensitivity from chemical consumers slowly growing, but ETS providing little push towards CCU



CO₂ VALUE EUROPE



The only European association
dedicated to
CO₂ Utilisation and bringing
together partners from **relevant**
industrial sectors

Multinational Companies, SMEs, Regional Clusters, Research Institutions,
Universities



Thanks for your
attention

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