

CLUSTER “PLATFORM POWER TO GAS”



AGENTSCHAP
INNOVEREN &
ONDERNEMEN



POWERTOGAS
Industry Cluster Flanders

Samen voor sterk innoveren



Polders Investeringsfonds nv
Antwerpse duurzame investeringsmaatschappij



- | |
|---|
| 10.00: Presentation new cluster members (Infrabel, Eneco, Denys) |
| 10.30: Status of Power-to-Gas projects and -plans in the Netherlands,
<i>Jörg Gigler, Directeur TKI Nieuw Gas (NL)</i> |
| 11.00: Cluster news - projects - advocacy - continuation of the cluster <i>Isabel</i> |
| 11.15: Status Hyflow project, a future hydrogen network in VL/NL <i>Adwin</i> |
| 11.30: Developments hydrogen buses in EU and at van Hool
<i>Geert Van Hecke, Van Hool</i> |
| 11.50: Factory tour Van Hool with visit to a hydrogen bus |
| 12.30: Sandwich Lunch |

- New cluster partners :

INFRABEL
Right On Track

DENYS

 **Eneco**

CLUSTER NEWS



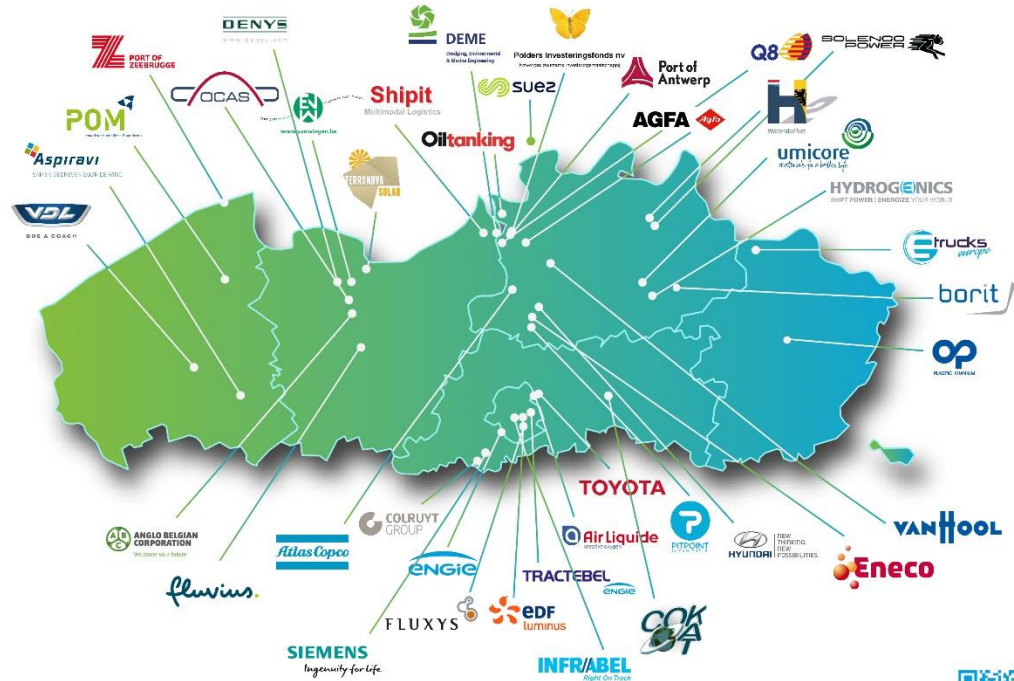
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- New project initiatives
- Legislation-advocacy activities
- Coming events
- Continuation of the cluster after first 3 years



For an up-to-date version of all our partners, scan this code:



(1) With VIL (Flemish Logistics cluster): Hldrolog

- Feasibility of **(mobile) refuelling station for shared use** on industrial areas, (air)ports
- Business model development
- Technical: which **logistic vehicles** are appropriate for H₂ (forklifts, straddle carriers?)
- **Local H₂ production** from wind/solar?
- **PoC/demo** : test with existing mobile refueller and vehicles on chosen industrial site
- Next step: specific case studies => projects?

Aim?

- Can we enable use of H₂ by companies with limited # vehicles by sharing equipment (decrease cost)?
- Can we optimise local production and consumption of energy?

Status

- Approval project idea **RVB VIL on 20/6**
- Further working out of idea and **finding interested partners (VLAIO COOCK project)**



(2) With Blue Cluster / Flux 50: offshore production of hydrogen

- Techno-economic analysis ; comparison with production of hydrogen onshore
- Specific analysis of **electrolyser operation** in marine conditions
- Depending on results: real-life testing of electrolyser (PoC) in marine conditions (test platform close to or in the sea)

Aim?

- Building up expertise in this field (as export product)
- Potential for application in Belgium limited..?

Status

- First project description available; **looking for partners**
- Submission of **feasibility study in September, via BC?**
- Real life test (PoC) start up in 2020





- **REDII implementation in Belgium** (policy paper; April 2019)
 - Final version distributed to ENOVER and other stakeholders on Flemish and Federal level
- **Memorandum on hydrogen** (May 2019)
 - Input for the new Cabinet of Energy (FOD economy)
 - Sent to representatives on Flemish and Federal level
- **National Energy & Climate Plan**
 - Public consultation running (6 weeks until Mid July)
 - Recommendations from the PtG cluster

To be defined: official “event” or meeting to communicate the memorandum to cabinets/administration etc..

- Workshop **permitting hydrogen fuelling stations (NL)** 21 juni @ Helmond
VL/NL workshop planned in November 2019 (within WaterstofRegio project)
- Next **clustermeeting** September, 18 @ OCAS, Zwijnaarde
- TCI global conference October, 8-10 @ Antwerpen:
- **WaterstofRegio conference** November, 14
@ Den Bosch, Provinciehuis





- Funding from VLAIO for cluster organisation **stops** after 3 years (for all IBN)
@ End of August 2019 for IBN Power-to-gas
- Choice to **continue** without funding from VLAIO,
but **remaining an official IBN** with access to VLAIO services and intercluster calls etc...
- Optimise way of working; small **survey** will be sent **before end of June**
 - Operational core team; **candidates?**
 - Review working groups; cross cutting teams such as Advocacy/Communication...
suggestions?

Incident involving a fire at the Kjørbo hydrogen station (near Oslo, Norway) on June 10, 2019

Status updates on website www.nelhydrogen.com

- The incident started with a **hydrogen leakage** from the high-pressure storage unit and that a **'cloud' of hydrogen ignited**. This has created a pressure wave.
- The investigations continue in order to identify the root cause of the leak as well as the source of the ignition.
- Stations of NEL are temporary in stand-by-mode.