

13:00 – 13:10

**Opening** dagvoorzitter Harold Pauwels - NEN

13:10 – 13:20

**Introductie HyLAW** door Robert Smaak – Min IenW - Afdelingshoofd voertuigen en brandstoffen)

13:20 – 13:40

**Wat is HyLAW** door Françoise de Jong - NEN - en Jan Piet van der Meer - zelfstandige

13:40 – 14:40

**Ervaring uit de praktijk**

- |   |                     |            |
|---|---------------------|------------|
| — Regulering van de electrolyser              | – Jaco Reijerkerk   | – Ekinetix |
| — Voertuigregelgeving                         | – Paul Dijkhof      | – Kiwa     |
| — Oprichting tankstation                      | – Alice Elliott     | – Shell    |
| — Kwaliteit van waterstof bij het tankstation | – Stefan Persijn    | – VSL      |
| — Waterstof in het aardgasnet                 | – René van der Haar | – Gasunie  |

14:40 – 15:10

*Pauze*

15:10 – 15:30

**HyLAW Database** - Remco Perotti - NEN

15:30 – 16:00

**Aanbevelingen aan de hand van policy papers**

16:00 – 16:30

**Discussie**

16:30 – 16:45

**Afsluiting**

*Borrel*

# Wat is HyLaW?

9 November 2018

Françoise de Jong en Jan Piet van der Meer

Seminar Europees project HyLAW



**HyLAW**  
Hydrogen law



Grant Agreement No 737977

## Sectortafels

Platformen voor afspraken beperking CO<sub>2</sub>-uitstoot in Nederland

- Elektriciteit
- Gebouwde omgeving
- Industrie
- Landbouw en landgebruik
- Mobiliteit



## Waterstof is een sector overstijgend onderwerp omdat:

Waterstof biedt mogelijkheden als energiedrager voor mobiliteit en transport, in de industrie en de energiesector en mogelijk ook in de gebouwde omgeving.

Een programmatische aanpak wordt voorgesteld om de ontwikkeling en uitrol van groene waterstof te versnellen

## *Politiek*

**Identificeren van belemmeringen door wet- en regelgeving** (en *best practices*), en het pleiten voor betere regulering om de ontwikkeling en uitrol van *fuel cell* en waterstoftechnologieën te ondersteunen.

## *Markt*

**Omschrijven van wettelijke en administratieve processen** met betrekking tot de uitrol van de belangrijkste waterstoftechnologieën (coherent, gebruiksvriendelijk, online database)

Vandaag de dag:

Toenemende uitrol en interesse van brandstofcellen en waterstof technologieën  
> meer producten (opschaling), betere efficiency, reductie van de kosten.

ECHTER

- Bestaande regelgevingskaders (planning, veiligheid, installatie, bediening) komen vaak alleen overeen met **conventionele technologieën** (bijvoorbeeld waterstof als chemische stof) – dit is niet voldoende.
- **Niet-aangepaste maatregelen** > extra kosten en tijd, middelenintensief. Bijvoorbeeld langdurige en kostbare vergunningsvereisten voor het realiseren van een waterstoftankstation in de meeste Europese landen.

Dit vormt een barrière voor opschaling van de inzet van deze nul emissie technologie, brandstofcellen en waterstof.



## **NEN**

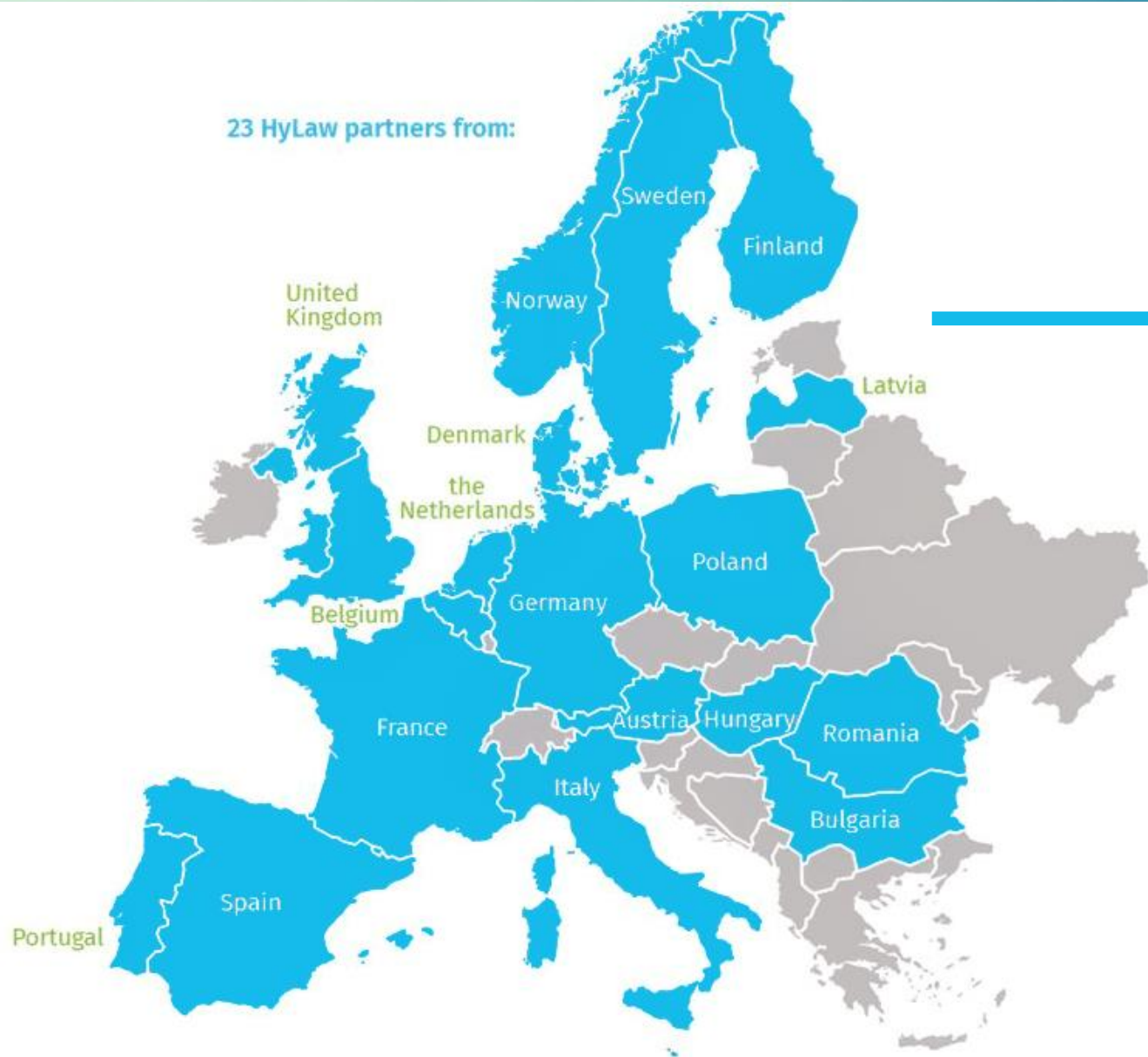
- Ontwikkelen van methodologie
- Ontwikkelen database
- Lid kernteam

## **NEN & Jan Piet van der Meer (vanuit NWBA)**

- Nationale inventarisatie
- Policy papers
- Disseminatie (seminar)

# Betrokken landen HyLAW

23 HyLaw partners from:



17 EU landen en  
Noorwegen

Project coördinatie  
door  
Hydrogen Europe



# HyLAW consortium (partners)





± 60 wettelijke en administratieve processen – 20 waterstoftoepassingen in 8 categorieën

## Categories of applications

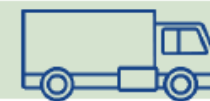
1. Production of hydrogen



2. Storage of hydrogen



3. Transport and distribution of hydrogen



4. Hydrogen as a fuel and refueling infrastructure for mobility purposes



5. Vehicles



6. Electricity grid issues

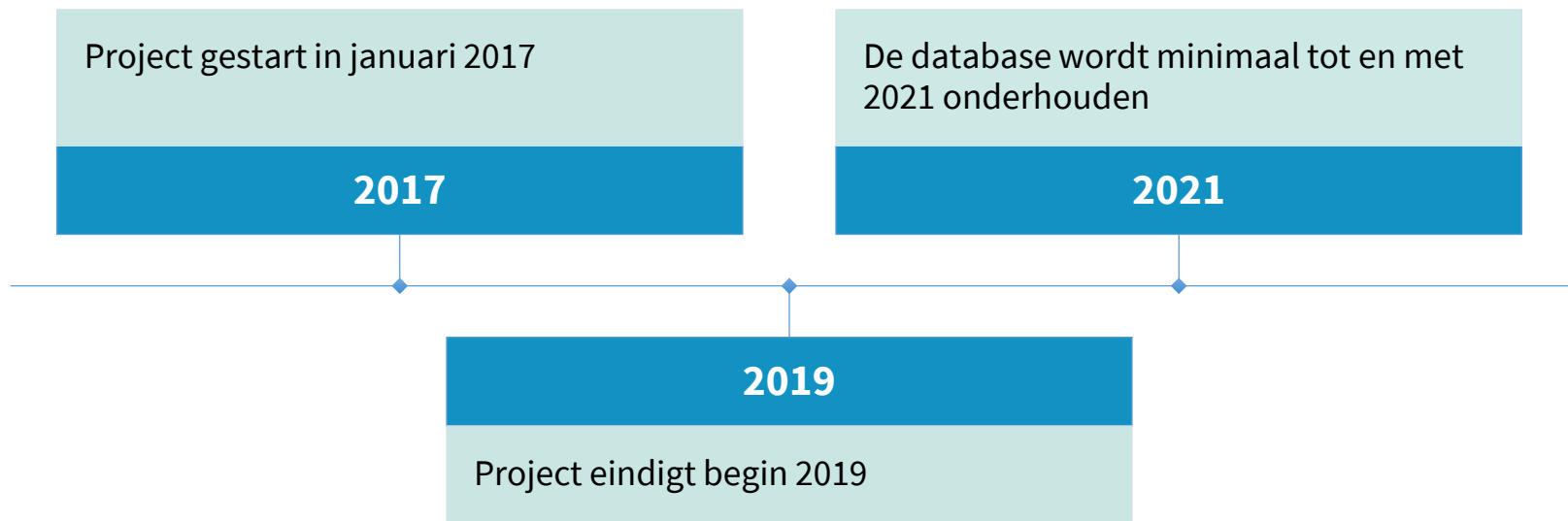


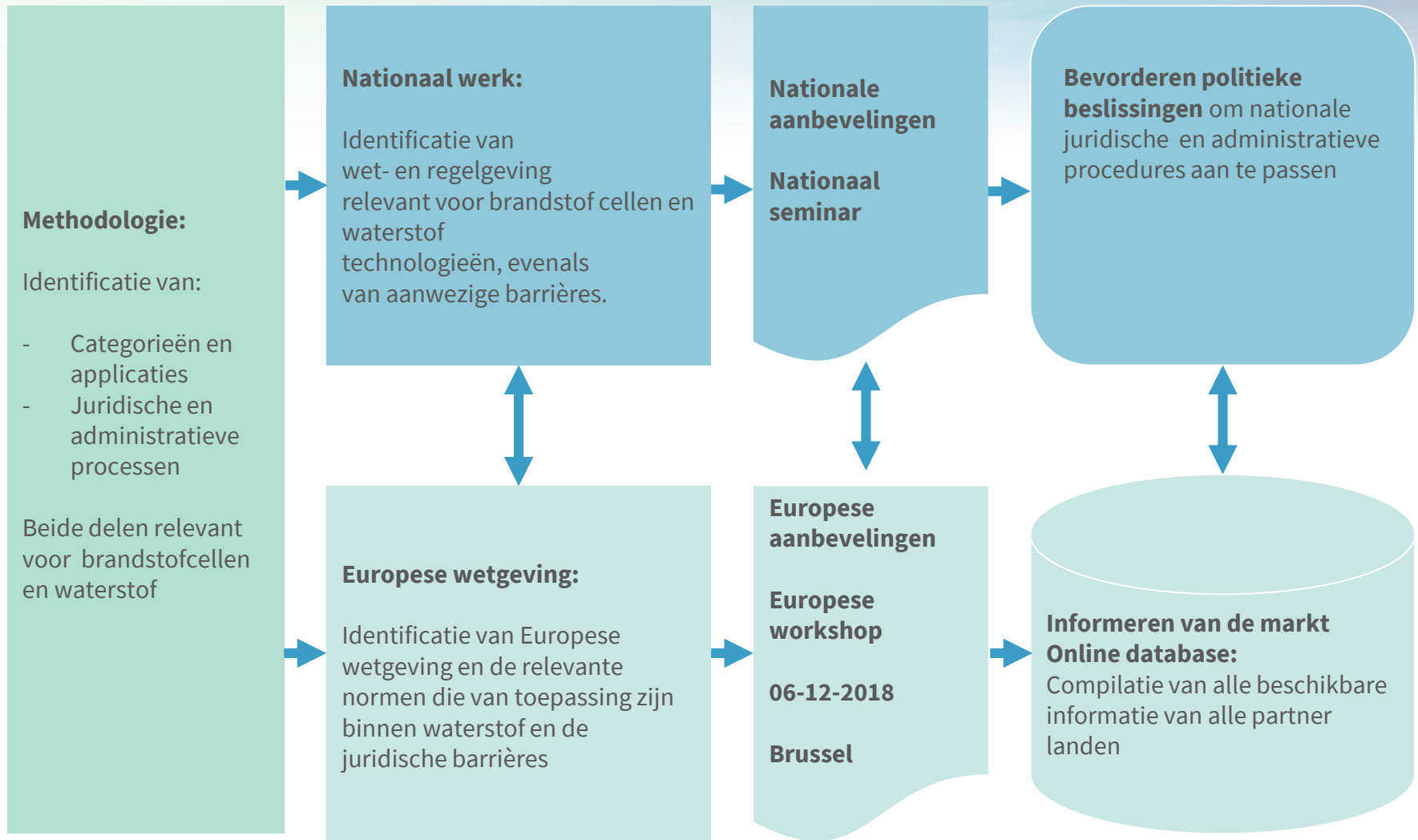
7. Gas grid issues



8. Stationary power; fuel cells (other issues than gas grid and electricity)







## Methodologie

- Definiëren categorieën
- Definiëren subcategorieën
- Opstellen definities en vragen
- Questionnaires
- Data aangeleverd van alle partners
- Kwaliteitsbeoordeling van data

## Analyse van data

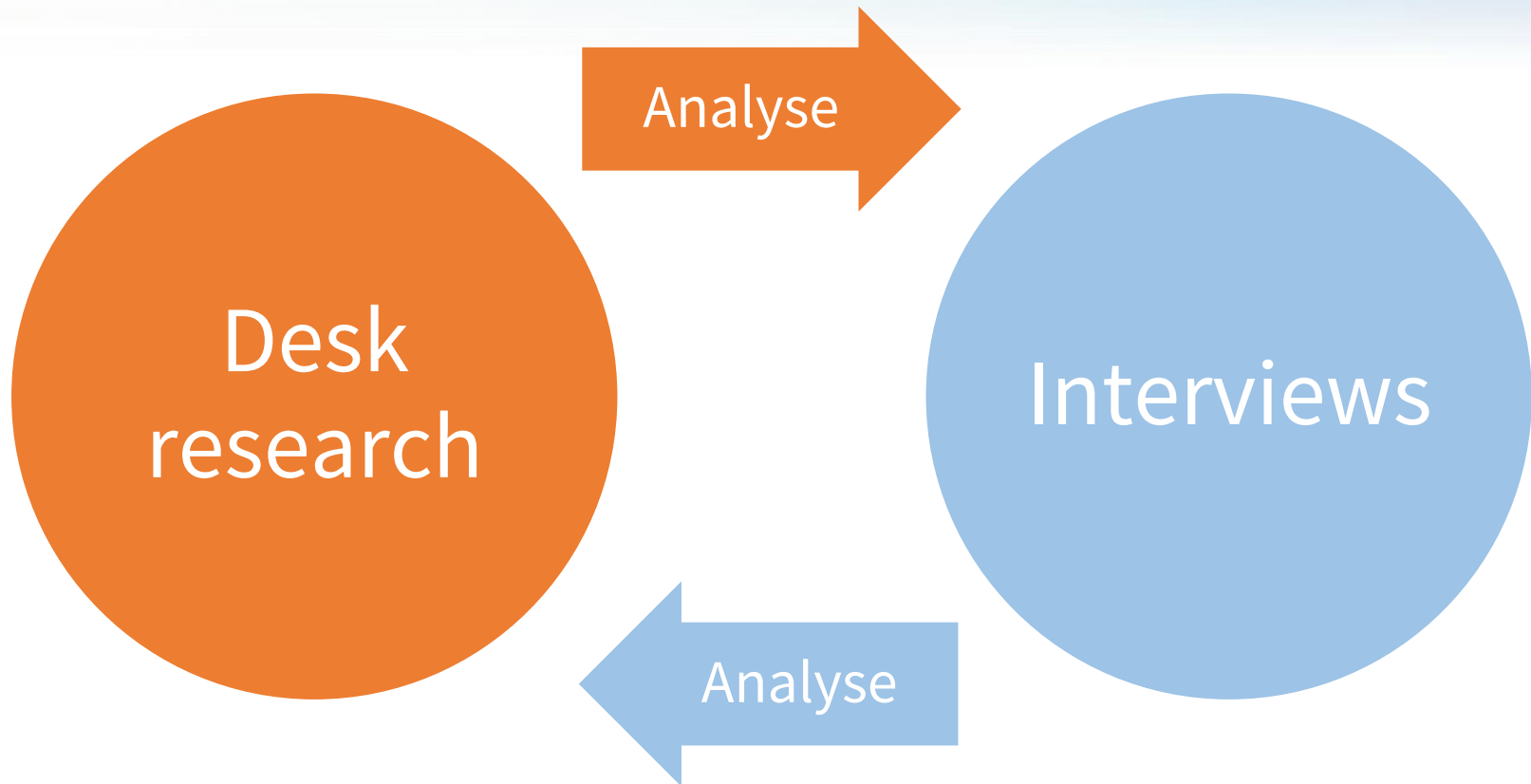
- Omzetten naar informatie

## Gebruiksvriendelijke interface

- Database

## Disseminatie van resultaten

- Policy papers
- Seminar



# Main outputs



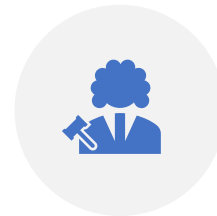
An online and publicly available **database** compiling legal and administrative processes applicable to hydrogen and fuel cell technologies in 18 countries across Europe



**National policy papers** describing each legal and administrative process, highlighting best practices, legal barriers and providing policy recommendations



A **pan-European policy paper** targeted towards European decision makers



National and European **workshops** for dissemination of the findings and recommendations to public authorities to remove barriers



# Aanbevelingen aan de hand van policy papers



PRODUCTION AND STORAGE OF HYDROGEN



TRANSPORT AND DISTRIBUTION OF HYDROGEN BY ROAD



HYDROGEN AS A FUEL AND FUELING INFRASTRUCTURE (MOBILITY)



VEHICLES



ELECTRICITY GRID ISSUES FOR ELECTROLYSERS



GAS GRID ISSUES



# HyLAW online database preview

Website: [www.hylaw.eu](http://www.hylaw.eu)

Database is online: [www.hylaw.eu/database](http://www.hylaw.eu/database)

Bevat informatie en vergelijkende evaluatie tussen verschillende landen

HyLAW Online Database

Home About HyLAW Info Centre Database Events Partners Contact

Database

Production of hydrogen Centralised Electrolysis, Steam-Meth Please select a LAP

The HyLAW database is structured along the nine categories which can be seen below. Within each category, a number of relevant hydrogen applications and different legal and administrative processes (LAPs) are covered. These can be selected from the drop-down menu found below. Once selecting the category, application, legal and administrative process (LAP) and the country you are interested in, you will be directed to a page displaying the data collected in the course of the project.

- Production of hydrogen
  - Centralised (Electrolysis, Steam-Methane reforming, and H<sub>2</sub> liquefaction)
  - Localised (Electrolysis, Steam-Methane reforming, and H<sub>2</sub> liquefaction)
- Stationary Storage
- Transport and distribution of hydrogen
- Hydrogen as a fuel and refueling infrastructure for mobility purposes
- Vehicles
- Electricity grid issues for electrolyzers
- Gas grid issues
- Stationary power: fuel cells
- Introduction of green hydrogen in industry

HyLAW Online Database

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Land use plan (zone prohibition)

Production of hydrogen Centralised Electrolysis, Steam-Meth Land use plan (zone prohibition)

Land use plan (zone prohibition)

This LAP refers to the land use plan and analyses the legal requirements for building a centralized hydrogen production facility (including potential zone prohibition), identifies the authority responsible for delivering the land use permit, gives an estimate of the time needed to change the land use plan, and finally highlights if the permit process to uniform throughout the country.

Germany

Expand all answers

What are the main regulatory requirements regarding land use plans for building a hydrogen production facility (including potential zone prohibition, agreement)?

Are there specific requirements or zone prohibitions for building a hydrogen production facility in the land use plans?

Which is the authority responsible for delivering the land use permit?

The preparatory and legally binding land use plans are developed and adopted by the municipalities in the framework of national legislations.

Is there a uniform permit process at local level throughout a country? (uniform interpretation?)

If needed, what is required and how much time does it take to change the land use plan?

Is it a barrier? No

Assessment Severity: 0

Assessment: The LAP is important for identifying the types of land use plans and their requirements resp. prohibitions for building of an industrial hydrogen production plant.

Show National legislation

Show EU legislation

Show Glossary

Show Pan-Eu region Assessment

View Legislation Table

PDF Export Excel Export

The information is correct There are errors...

Submit a suggestion for improvements



# HyLAW: Policy Papers

- **Policy papers:** Key messages and recommendations
  - National Policy Papers for each country (Estimated September – October)
  - Horizontal (for each application) policy papers (estimated November)
  - EU Policy paper (Estimated November)

The HyLAW consortium has analysed the applicable legal and administrative processes in all the countries covered and has produced a set of analytical reports which seek to shed more light on the sources of regulatory barriers and the impact they have on the timely delivery of hydrogen technologies. We are happy to make them publicly available below:

## National policy papers

Building on the content of the database, National policy present the state of play of the Hydrogen Regulatory environment in each country and detail country specific recommendations.

- |                                   |                              |                                 |
|-----------------------------------|------------------------------|---------------------------------|
| <a href="#">Austria</a>           | <a href="#">Germany</a>      | <a href="#">Poland</a>          |
| <a href="#">Belgium</a>           | <a href="#">Hungary (HU)</a> | <a href="#">Portugal</a>        |
| <a href="#">Bulgaria</a>          | <a href="#">Italy</a>        | <a href="#">Romania</a>         |
| <a href="#">Denmark (EN) (DK)</a> | <a href="#">Latvia</a>       | <a href="#">Spain (EN) (ES)</a> |
| <a href="#">Finland</a>           | <a href="#">Netherlands</a>  | <a href="#">Sweden</a>          |
| <a href="#">France</a>            | <a href="#">Norway</a>       | <a href="#">United Kingdom</a>  |

## EU policy paper

## Analytical reports and other deliverables

Bedankt voor uw  
aandacht

Vragen?

Francoise de Jong,  
Jan Piet van der Meer,  
Remco Perotti



**HyLAW**  
Hydrogen law



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Grant Agreement No 737977