

Your World First



## **1st European Gas Dialogues by Natural Gas World: Gas companies go green(er)**

### **Legal and Regulatory signals and incentives**

9 March 2021

Dalia Majumder-Russell, CMS

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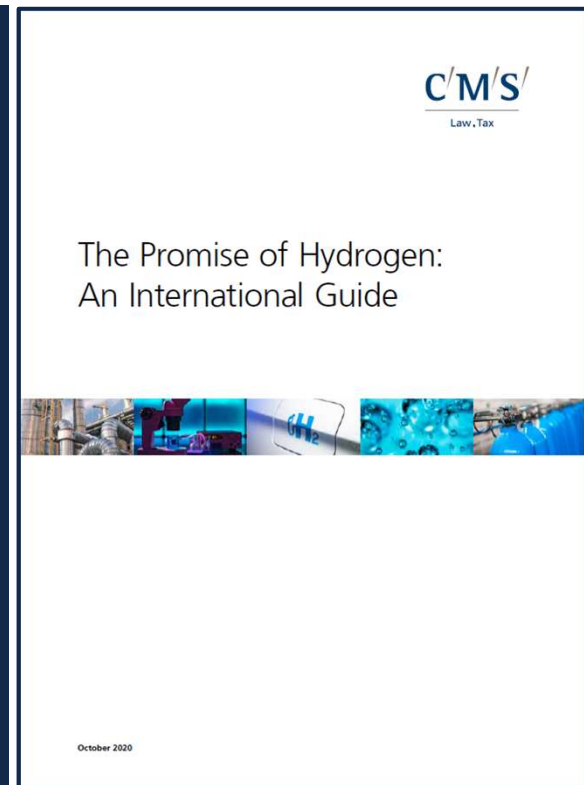
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- » # 1 Germany, UK (Thomson Reuters)
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- » # 1 Europe, Germany, UK (Bloomberg)



CMS Expert Guide – The Promise of Hydrogen: An International Guide, October 2020  
<https://cms.law/en/int/expert-guides/cms-expert-guide-to-hydrogen>

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# The European Landscape: Regulatory signals and incentives

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## EU Hydrogen Roadmap – a *timeline*

### – 2020 - 2025

- 6 GW renewable hydrogen electrolyzers
- Production of 1 million tonnes of renewable hydrogen
- Start decarbonisation of existing hydrogen production
- Increase hydrogen refuelling stations
- Establish infrastructure for carbon capture

### – 2025 - 2030

- 40 GW renewable hydrogen electrolyzers
- Production of 10 million tonnes of renewable hydrogen
- Increase new applications for industry and transport
- Increase carbon capture
- Develop local hydrogen clusters
- Planning of pan-European grid

### – 2030 - 2050

- 25% of renewable electricity used for hydrogen production

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# The European Landscape: Regulatory signals and incentives

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## **EU Hydrogen Roadmap** (cont.)

- European Clean Hydrogen Alliance
  - Represents hydrogen value chain
  - Identifies pipeline for viable investment projects
- Coordination of national hydrogen development plans
- Funding and support
  - Enabling state aid for IPCEI (Important Projects of Common European Interest)
  - Doubling of InterestEU programme
- Boosting demand in industry and transport (e.c. emission standards)
- Policy framework for the promotion of hydrogen production (e.c. low carbon threshold, ETS, support schemes)
- Legal and regulatory framework for hydrogen infrastructure and market rules
- Promotion of research and innovation
- International cooperation and partnerships

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# Drivers for Hydrogen Projects in the EU

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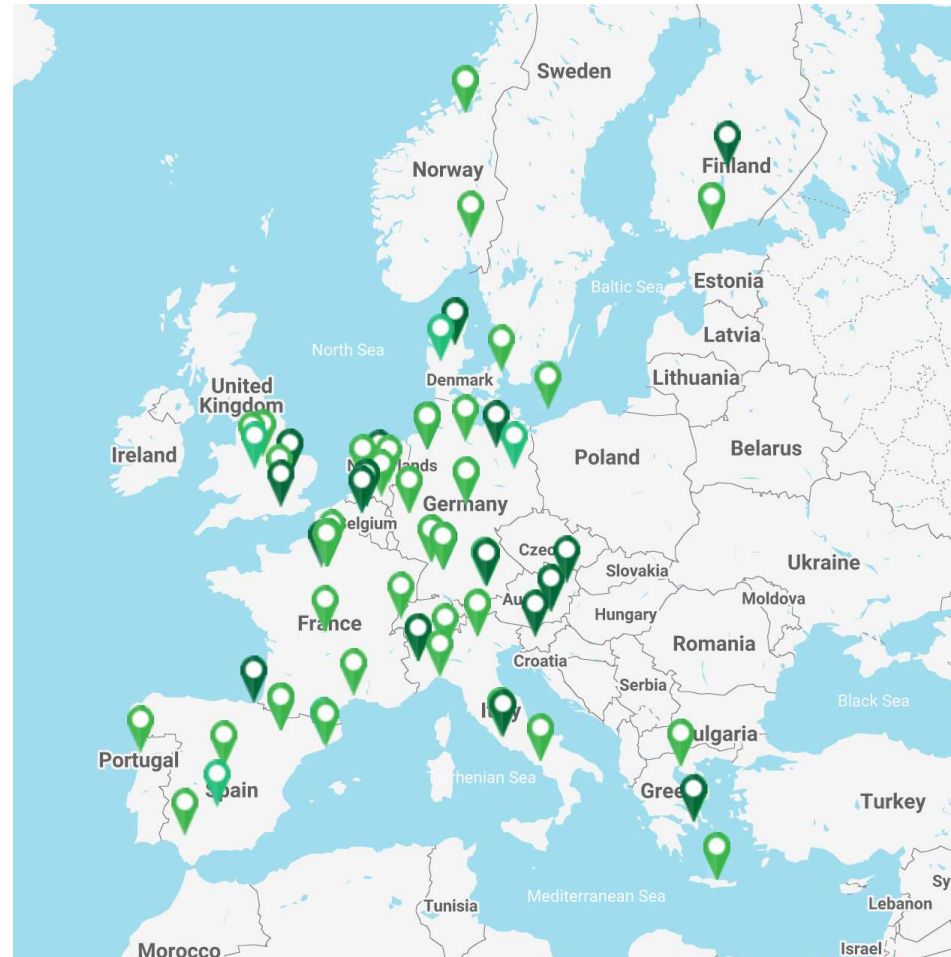
- EU Green Deal
- EU Green Economic Recovery
- EU Hydrogen Strategy

## ***Infrastructure:***

- Regulation on Trans-European Networks for Energy (TEN-E)
- European Hydrogen Backbone



**National hydrogen strategies**



Hydrogen Europe, interactive map of hydrogen projects (various stages):  
<https://hydrogeneurope.eu/projects>

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## Legal and Regulatory barriers: key issues

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**Lack of policy, regulatory framework**



**Costs and financial support**



**Risk allocation - the right commercial model?**



**Lack of precedent commercial scale projects**



**Practical issues e.g. permitting, authorisations**



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## Further reading from CMS and contact information

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**CMS Report - Energy Transition: Evolution or Revolution? January 2020**  
<https://cms.law/en/int/publication/energy-transition-evolution-or-revolution>



**CMS Expert Guide – The Promise of Hydrogen: An International Guide, October 2020**  
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