



The EU Hydrogen Strategy

• "In the integrated energy system of the future hydrogen will play a role, alongside renewable electrification and a more efficient and circular use of resources" (p. 2)

Brussels, 8.7.2020 COM(2020) 301 final

 Hydrogen as cornerstone of EDG and recovery from the COVID-19 crisis

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

A hydrogen strategy for a climate-neutral Europe

- Potential to bridge the decarbonisation gap by 2050
- Priority set on renewable hydrogen



Key Regulatory Challenges for the Creation of an EU Hydrogen Economy

- No dedicated hydrogen act
- Regulatory requirements spread over various areas of EU energy aquis

Key Regulatory Challenges for the Creation of an EU Hydrogen Economy

Internal Market	New lead markets	Infrastructure
Unbundling	Industry application (EU Emissions Trad- ing Scheme ('ETS'), Carbon Border Ad- justment Mechanism ('CBAM'), Energy Taxation Directive, Carbon Contracts for Difference)	Ten-E
Third Party Access	Transport	Ten-T
Distribution and Transmission Tariffs		



Towards an internal market for hydrogen



https://gasforclimate2050. eu/publications/

Towards New Lead Markets





A dedicated Hydrogen Act?

- Using existing anchoring hooks to ensure that technology can be effectively and successfully deployed
- Regulatory challenges to the development of the "hydrogen economy" envisaged by the EU's Green Deal
 - Upstream: need for financial and regulatory support for hydrogen production
 - Midstream: infrastructure and policy action needed to accelerate investments and avoid MS divergences

DIRECTIVE 2009/31/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 23 April 2009

on the geological storage of carbon dioxide and amending Council Directive 85/337/EEC, European Parliament and Council Directives 2000/60/EC, 2001/80/EC, 2004/35/EC, 2006/12/EC, 2008/1/EC and Regulation (EC) No 1013/2006

(Text with EEA relevance)

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Methods: regulatory sandboxes? – currently not foreseen at EU level



A dedicated Hydrogen Act?

Other questions:

- Addressing international and cross-border issues, such as hydrogen gas quality, safety, engineering standards, public procurement, planning, building and operating standards;
- Certification of the carbon performance of hydrogen, i.e. guaranteeing that hydrogen imported into the EU import is not from fossil origin? (guarantees of origin/ global measuring of products with verification)



Carbon & Climate Law Review > Volume 14 (2020), Issue 3 > Pages 210 - 231



Governing New Technologies in the Energy Transition – The Hydrogen Strategy to the Rescue?

open-access

Gökçe Mete, Leonie Reins
DOI https://doi.org/10.21552/cclr/2020/3/9

Full Text (PDF)

Full Text (HTML)

Abstract

Author Info

This article analyses the European Commission's Hydrogen Strategy with a focus on its broader implications for EU energy law. Given the specificities of the technology itself, existing regulatory instruments are not always apt to accommodate the wide-scale introduction of hydrogen into the energy mix. Indeed, from a legal perspective, hydrogen faces a vast number of challenges, which can be clustered into three main categories, namely challenges related to (1) the creation of an internal market for hydrogen, (2) the creation of new lead markets for hydrogen, and (3) infrastructure for hydrogen. The aim is to answer the question to what extent the regulatory challenges are already acknowledged and covered by the Hydrogen Strategy, and to the extent they are not, how the future steps in the hydrogen-related policy making process can effectively address them.

HYDROGEN ACT

Towards the Creation of the European Hydrogen Economy



April 2021 Hydrogen Europe

