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# Hydrogen transport and storage infrastructure consultation

Regulatory Framework Workshop

19 October 2022



Department for  
Business, Energy  
& Industrial Strategy

# Housekeeping

- **No planned fire alarms.** In the event of an emergency please follow the signs to nearest emergency exit and move away from the building
- **Please take care when moving around the room**
- **Those dialling in will be part of online participation (more details to come) and are welcome to post any questions into the chat.** Please include your role, name and organisation
- If we do not have time to respond to your question, you are welcome to reach out to us via email: [hydrogentransportandstorage@beis.gov.uk](mailto:hydrogentransportandstorage@beis.gov.uk)
- **We will be recording parts of the session** for note taking purposes. We have no plans to share the recording



# This workshop will follow the structure below...

	Agenda	
1.	Welcomes & introductions	10 minutes
2.	Context to the workshop	5 minutes
3.	Small group sessions	45 minutes
4.	Short break	5-10 minutes
5.	Large group reflections	45 minutes
6.	Thank you and next steps	5 minutes

## In Scope

1. On and offshore hydrogen production, transport (pipeline and vehicular), and storage (*focus*)
2. Demand/end-users (*interest*)
3. Across three main **non-economic** areas: **a)** environmental **b)** health and safety **c)** planning/licensing

## Out of Scope

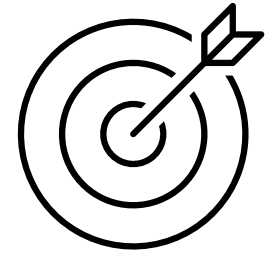
1. Market or commercial arrangements/financial or economic support
2. Prospective hydrogen interconnectors from UK– overseas



# The objective(s) of the session today are...

1. **Present** context to our work
2. **Generate discussion and gather initial views** for understanding the operability of the current regulatory framework for low carbon hydrogen

*\* this is to supplement formal evidence submissions that are required as part of the consultation process. Any evidence shared today will not constitute the same type of formal evidence gathering*



# Introductions (quick)



# Context to the workshop

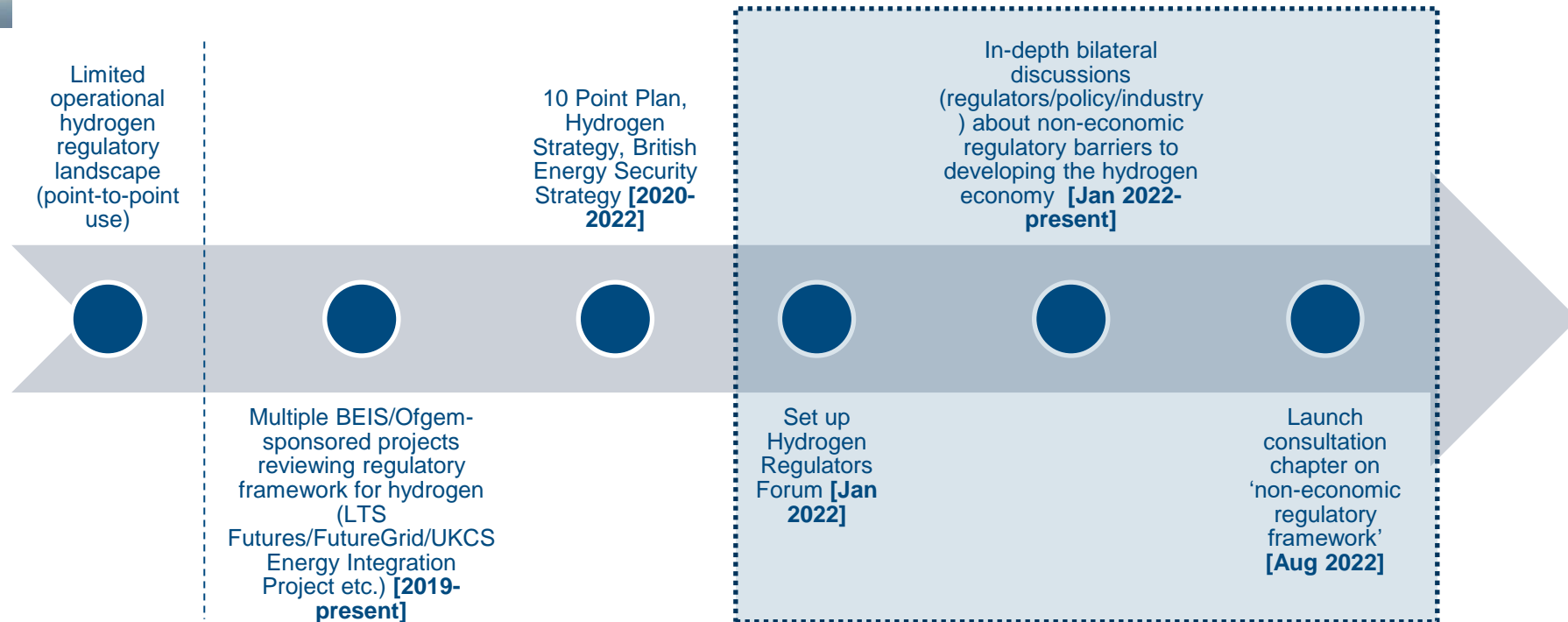


# Our regulatory review process so far has been:



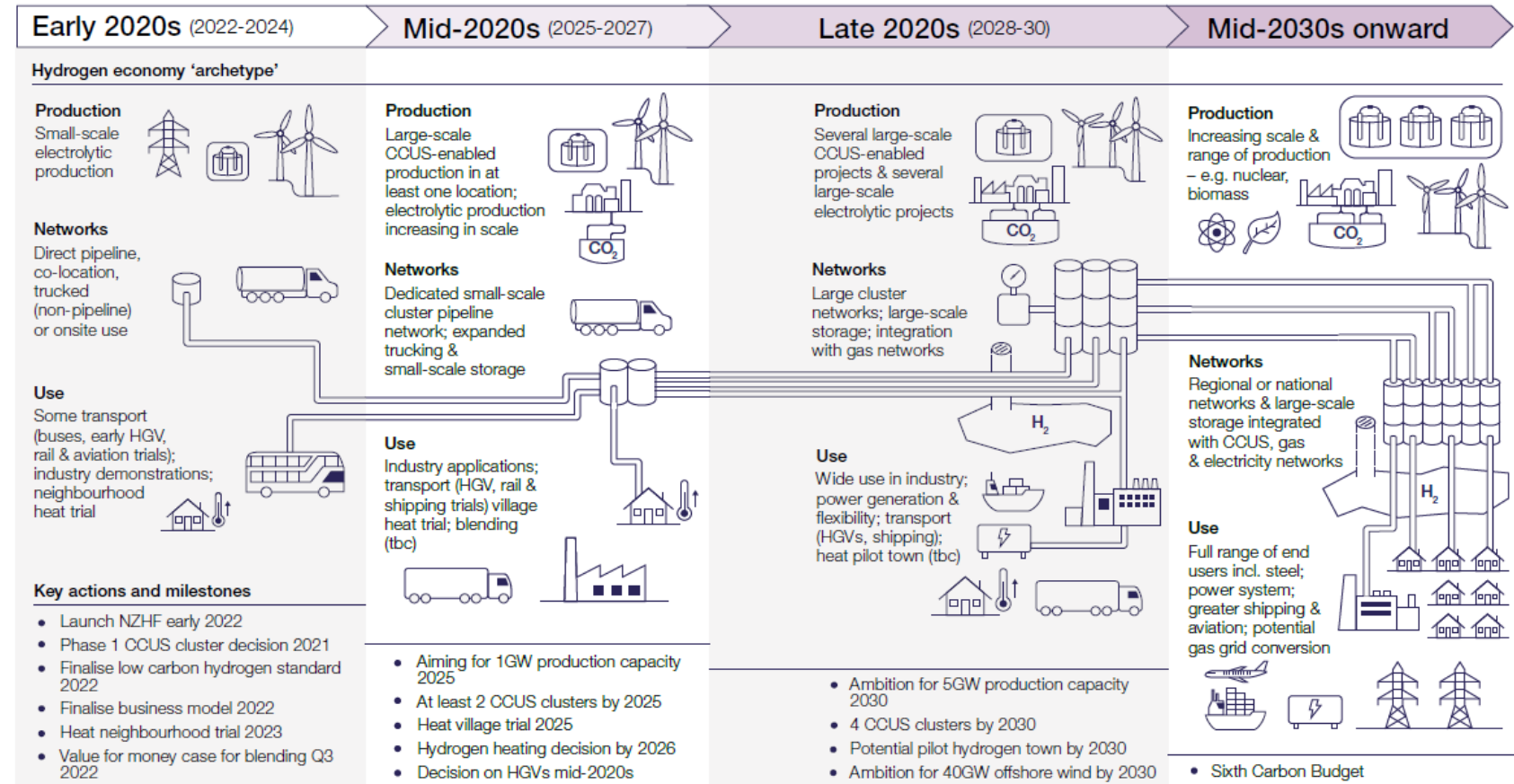
## 'Trawler Net' Approach:

- An open strategy covering all routes to understand any non-economic regulatory changes needed to develop the hydrogen economy



# Our Hydrogen Strategy vision for hydrogen infrastructure development

*“We aim to reach a large, liquid and competitive hydrogen market enabled by an integrated and resilient network with multiple entry and exit points, connected by several storage facilities at various scales.”*





# The role of our team is to coordinate and develop policy

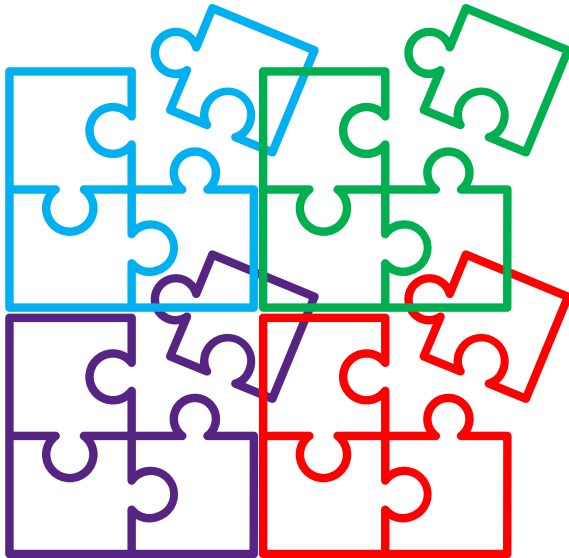
Hydrogen Economy, Regulatory Support Team's Role:

*We will work **across government and with regulators** to ensure that the interlinkages between hydrogen and broader governance and **regulatory changes** are appropriately considered*

(Hydrogen Strategy 2021)

a) Policy coordination

b) Policy development



- Our role is to ensure **different regulatory policy pieces come together** to enable an operable regulatory framework for the hydrogen economy



# A consultation was recently published to explore potential designs of business models

- On 31 August 2022, a consultation was published setting out HMG thinking on potential growth of hydrogen T&S infrastructure, its role within the hydrogen economy, and the likely need for a business model as well as **exploring potential design options for these business models**.
- As well as seeking stakeholder views on potential design options for these business models, the consultation asks questions on **strategic planning, wider regulation, and blending**.
- This consultation will end on 22 November 2022 and a link can be found here: <https://www.gov.uk/government/consultations/proposals-for-hydrogen-transport-and-storage-business-models>



# This workshop focuses on non-economic regulation

The chapter considers and seeks views on:

- The wider supporting regulatory landscape for hydrogen transport and storage infrastructure *(extended to all parts of the value chain)*
- Questions to support BEIS and other bodies to help ensure that non-economic regulatory measures are optimal for project development



# Workshop Session(s) Today



# Regulatory assessment of the current framework (small groups)

Regulatory Area	Operability Regulatory Assessment, Risk(s) & Detail	Regulatory/Organisation Owner(s)	Timings
Health and Safety Regs			Approx. 15 mins
Environmental Regs			Approx. 15 mins
Planning Regs			Approx. 15 mins

## In Scope

1. On and offshore hydrogen production, transport (pipeline and vehicular), and storage (*focus*)
2. Demand/end-users (*interest*)

## Out of Scope

1. Market or commercial arrangements/financial or economic support
2. Prospective hydrogen interconnectors from UK– overseas

## Outputs:

- Note down discussion topics on the whiteboard/post stick notes in small groups for each 'regulatory station'
- Be prepared to relay discussions in a large group format (to follow)

*\*Any questions?*



# Short comfort break



# Regulatory assessment of the current framework (large group)

Regulatory Area	Operability Regulatory Assessment, Risk(s) & Detail	Regulatory/Organisation Owner(s)	Timings
Health and Safety Regs			Approx. 15 mins
Environmental Regs			Approx. 15 mins
Planning Regs			Approx. 15 mins

## In Scope

1. On and offshore hydrogen production, transport (pipeline and vehicular), and storage (*focus*)
2. Demand/end-users (*interest*)

## Out of Scope

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**Operability Regulatory Assessment, Risk(s) & Detail**[Add Note](#)**High flamability range****Comah****Inter-realtions with gas  
legislation****Hazardous area  
classifications****Purity****Difference in burners  
and certifications**



**Operability Regulatory Assessment, Risk(s) & Detail**[Add Note](#)**NOx emissions****GWP - monitoring and  
reporting required?****H2 purity requirements****Offshore regulations  
not clear****Shift from blue - green  
Incentivising**

**Operability Regulatory Assessment, Risk(s) & Detail**[Add Note](#)

**Draft NPS - CCUS goes further than H2**

**Blending?**

**Coordination / selection of projects want to support.**

**Certainties around timing of process**

**CCUS**



# Short comfort break



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