Mission Innovation "Renewable and Clean Hydrogen Challenge"

HyENet Workshop

Brussels, 18 November 2019

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The Answer: Mission Innovation





- formed in 2015 to accelerate clean energy transition
- 23 countries + EU
- doubling R&I investment in clean energy by 2021
- facilitating greater private sector engagement in clean energy



Mission Innovation ≠ Mission Regulation

Mission Innovation

Science Research Development Analysis

Practice

Deployment Now Policies Capacity Building Prizes, Recognition

Clean Energy Ministerial

Create New Ideas Improve Performance

Reduce Cost

Raise Awareness Facilitate Market Uptake



8 Innovation Challenges



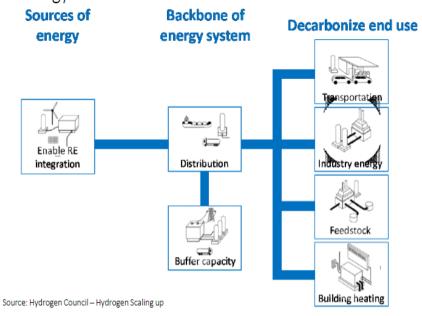
Renewable and Clean Hydrogen Challenge (IC#8) launched at MI-3 (Malmö, 23-24 May 2018)



Renewable and Clean Hydrogen Challenge (IC#8)

The approach

Recognizes hydrogen as a key technology for the energy transition



The objective

to accelerate the development of a global hydrogen market by identifying and overcoming key technology barriers to the production, distribution, storage and use of hydrogen at gigawatt scale:

initiate R&D

enable large scale projects

information sharing platform



































IC#8: Where are we? (1)

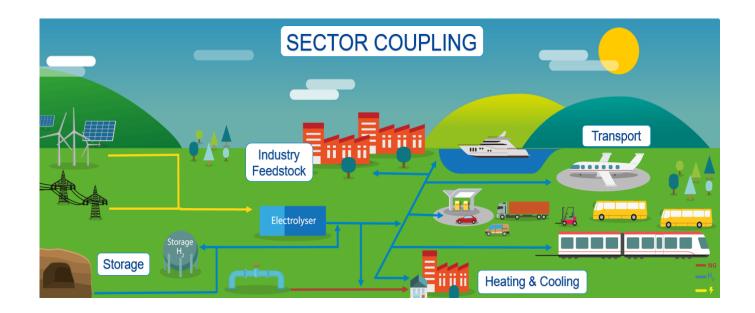


Workshop in Chester, UK on 28-29 November 2019



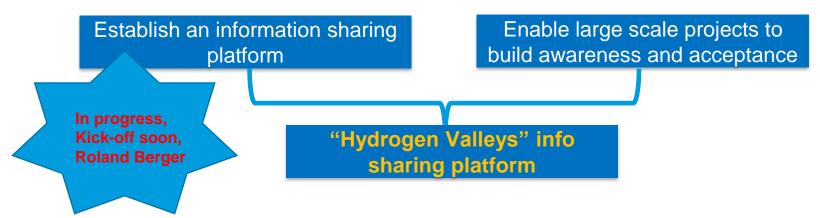
"Hydrogen Valleys":

A "Hydrogen Valley" can be defined as a geographical area - city, region, island or industrial site - where several hydrogen applications are combined together into an integrated hydrogen eco-system that consumes a significant amount of hydrogen. A Hydrogen Valley should ideally cover the entire hydrogen value chain (production, storage, distribution and final use).





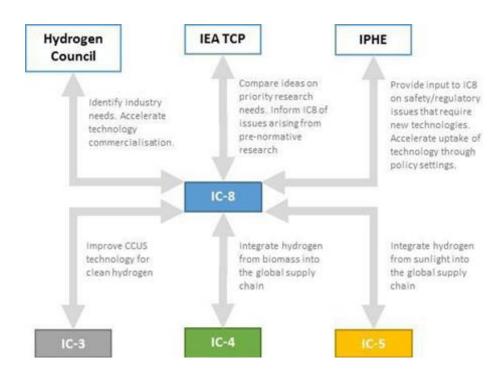
"Hydrogen Valleys":



- Many demonstration projects have successfully shown the maturity and benefits of individual hydrogen technologies (typically either in isolation or in limited size)
- The viability of hydrogen as a <u>systemic solution</u> has not yet been showcased at scale
- The objective of IC#8 information sharing platform is to consolidate the learnings of the first emerging "H2 Valley" projects from MI members in order to accelerate the shift towards large-scale multi-application hydrogen projects



It is all about collaboration and coordination!



Mission Innovation IC#8 can provide a platform for coordination of stakeholders efforts' and for a high-level public-private dialogue.

Taking place back-to-back with Clean Energy Ministerial it is ideally placed to increase the awareness regarding the potential impact of hydrogen in the context of global CO2-reduction targets.





