



# Informing and enabling communities – The Community Hydrogen Forum (CH2F)

1 July 2020



## Introduction

- Do renewables spark joy?
- Hydrogen's role and record
- Learn, enhance, improve...
- The Community Hydrogen Forum
- How CH2F can help you
- Where to find us







# Renewables: Do they spark joy?



- Many recent initiatives to change energy policy have been led by the efforts of individuals and pressure from communities
- Renewables are now at the forefront of EU policy
- Individuals are educating themselves on actions which could be taken to avoid climate change
- Communities are developing projects to supply energy locally to enable greater sourcing control
- They rapidly recognise that energy needs are wider than just electrical power





# **Interreg** Sustainability enabled by hydrogen

- Hydrogen offers community projects greater flexibility on how to use their renewable energy
- It enables energy storage and opens decarbonisation of heat and additional mobility options
- Coupling these other sectors to renewables allows expansion of renewable investment
- The integration of hydrogen production and use in the energy value chain is now possible

   increasing reduction in carbon emissions...



# Hydrogen enhances a community's energy transition potential



# Tried, tested and available...

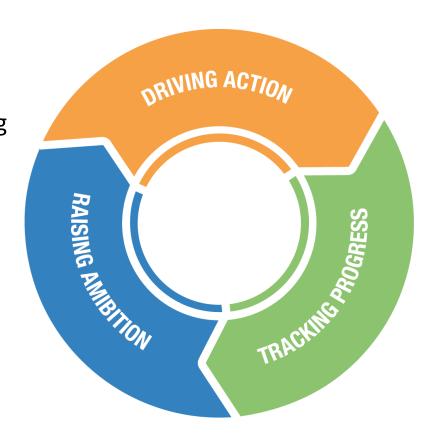
- This integration of renewables with hydrogen has been used in many projects to date all over the globe
- The technology is proven commercially or is at a high TLR level, ready to be deployed for projects
- An example of the equipment and knowhow available:
  - Full integration with renewable energies
  - Electrolysers
  - Compressors
  - Lightweight storage
  - Refuelling stations
  - Hydrogen cars, buses, trucks, trains and boats
  - Hydrogen ready boilers





# Learn, enhance, improve....

- In order to progress to reach current climate goals, co-operation is a must
- The ideas used in projects currently being deployed can be used as inspiration for other local communities
- Follow-on and replication projects will increase hydrogen knowhow and penetration
- Integration of such projects leads to regional and national change



# Knowledge and experience sharing is key to creating successful hydrogen communities

Hydrogen: Getting the Green Light, Driving Europe's Green Recovery



# The Community Hydrogen Forum



Where hydrogen experts and communities come together...





#### Goal 1

Raise community hydrogen awareness

#### Goal 5

Aid the development of long term H2 strategies



#### Goal 2

Hydrogen Discussion Forum – Sharing information; experiences and best practice

#### Goal 4

Decision Support Tool to assist in the evaluation of H2 technologies.

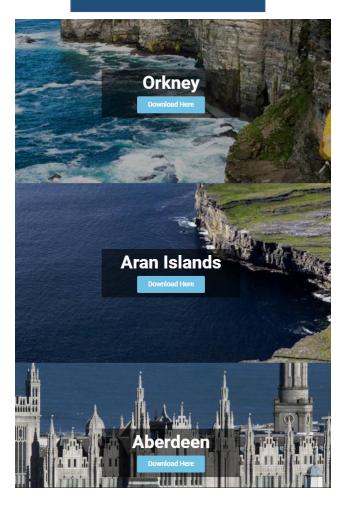
#### Goal 3

Up to date Hydrogen Information



# A developing resource....

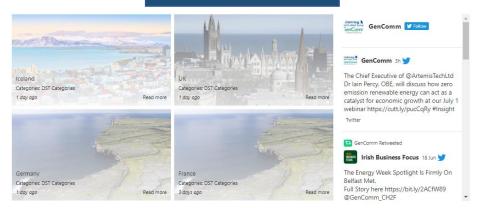
#### **Case Studies**



# Decision Support Tool



#### Latest News





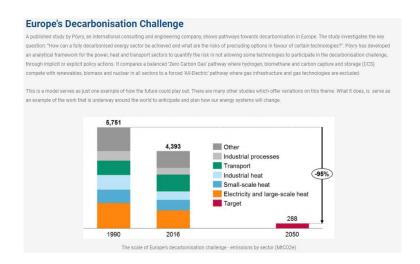
# Key features at your fingertips...

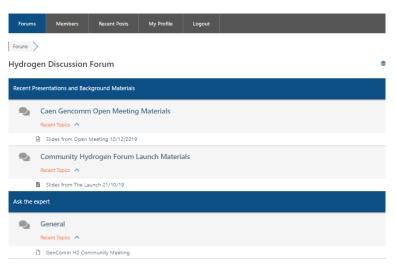
#### **Hydrogen Insights**

- Hydrogen introductory materials
- Written by academics and leading hydrogen sector members

#### Hydrogen Discussion Forum

- Register on Communityh2.eu
- Ask your questions in the Hydrogen Discussion Forum
- Get answers from like-minded communities and our pool of experts.





Hydrogen: Getting the Green Light, Driving Europe's Green Recovery



### More information...



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