



# 5 INITIATIVES ACCELERATING HYDROGEN IN EUROPE



## 1. HYDROGEN FAST TRACK IN GERMANY

Gas transmission system operator OGE and energy company RWE have unveiled 'H2ercules' as a national hydrogen infrastructure concept.

Accelerating the development of a hydrogen industry and infrastructure in Germany

UP TO  
**1GW**  
NEW  
ELECTROLYSER  
CAPACITY

INVESTMENT  
  
**€3.5 Billion**  
will be needed to  
implement the project

COVERAGE  
  
0 100  
two thirds of the hydrogen  
demand from the German  
industrial centres along the  
recommended route by 2030

Source: OGE and RWE propose hydrogen fast track in Germany – Enlit World

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## 2. HyDeal ESPAÑA RENEWABLE HYDROGEN INITIATIVE

HyDeal España is the first implementation of the industry collaborative HyDeal Ambition platform to deliver green hydrogen at fossil fuel prices across Europe.

Mass-scale renewable hydrogen will sustainably replace fossil fuels in industry, energy and mobility and will provide Spain with a domestically produced, secure, competitive and zero-carbon energy

  
**2025**  
Production planned  
to start

By 2030, total installed capacity  
expected to reach:  
 **9.5GW**  
Solar power  
 **7.4GW**  
Electrolysers

**Phase 1**  
Green hydrogen will be blended with  
natural gas in the current  
infrastructure

**Phase 2**  
Use a dedicated infrastructure for the  
supply of green hydrogen

Source: HyDeal España renewable hydrogen initiative launches – Enlit World

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## 3. OFGEM SUPPORTS NATIONAL GRID WITH £1.5M FOR ENERGY NETWORK INNOVATION

The UK's National Grid Gas Transmission and National Grid Electricity Transmission have been granted a combined £1.5m (\$2m) in funding from Ofgem's Strategic Innovation Fund (SIF) for:



**13**  
innovation  
projects  
ranging from the use of  
hydrogen in the gas  
national transmission  
system, to using satellite  
data analytics to increase  
grid resilience and the  
impact of climate change

  
**£1.1m**  
10 projects, advancing work investigating the use of  
hydrogen in the national gas system and further unlocking  
gas's role as a key enabler in the transition to net zero

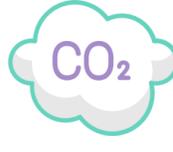
**£400k**  
3 projects that will help  
develop a net zero electricity  
network  


Source: Ofgem supports National Grid with £1.5m for energy network innovation – Enlit World

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## 4. GREEN HYDROGEN TO DECARBONISE EUROPE'S LARGEST STEELMAKING SITE

Thyssenkrupp Steel and STEAG have agreed on the delivery of hydrogen from STEAG's Duisburg-Walsum site to thyssenkrupp Steel in Duisburg, Germany.



  
The agreement followed a  
feasibility study for a water  
electrolysis plant with a  
capacity of up to

**520MW**

**2023** — **2025** — **2045**  
Investment  
decision for the  
project  
Delivery to  
thyssenkrupp Steel  
planned to start  
Target to make  
thyssenkrupp Steel  
climate neutral



Source: Green hydrogen to decarbonise Europe's largest steelmaking site – Enlit World

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## 5. GREEN HYDROGEN IN EUROPE: 2022 IS THE YEAR TO MAKE IT A REALITY

Delta-EE's project database indicates that the majority of the projects that have reached the planned stage or are already under construction for 2022 can be classified as 'firm'. However, looking ahead to 2023 only one quarter are 'firm' and three-quarters of the projects remain uncertain.

  
**1%**  
current % of the global  
green hydrogen  
production;  
from approximately  
300MW of electrolyser  
capacity

  
**120  
GW**  
New projects are being announced,  
reporting more than 120GW of capacity  
announcements to 2030 and beyond.

Electrolyser capacity planned to come online  
in Europe

**6GW** 2024 **10.9GW** 2026



Top five countries in terms of announced capacity: Germany, Spain, Denmark, the Netherlands, and close behind the UK and Sweden

Source: Green hydrogen in Europe – 2022 is the year to make it a reality – Enlit World

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