

The hydrogen economy and its role in the energy transition

Session 1: An introduction to the hydrogen economy

Thursday 1 October, 2pm-4pm BST (3pm-5pm CEST)

Introduction & welcome

- 10 am
- Aim and objectives
 - Tech check

Technologies for hydrogen production

- Module 1
- The hydrogen supply chain
 - Grey and blue hydrogen
 - Steam methane reforming and carbon capture
 - Pyrolysis
 - Green hydrogen
 - Electricity prices and regulatory challenges
 - Cost development of the electrolysis technology
 - Levelized cost of hydrogen

Break

Transportation, distribution and storage

- Module 2
- Hydrogen transport infrastructure
 - Natural gas grids
 - Storage
 - Existing hydrogen infrastructure
 - International transport (options / costs)
 - Hydrogen use cases
 - Industry
 - Mobility
 - Heating

12.00 Q&A and what we will cover off in sessions 2 and 3

The first session of our hydrogen workshops, developed in partnerships with EWI (the Institute of Energy Economics at the University of Cologne), will focus on technologies for hydrogen production and on transport infrastructure. We will explore the hydrogen supply chain, analysing the key opportunities and challenges of grey, blue and green hydrogen. The main use cases of hydrogen for industry, mobility and heating will also be presented.