



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

***Brief Summary International Initiatives:***  
***International Renewable Energy Agency***  
***World Economic Forum***  
***International Energy Agency***

34<sup>th</sup> IPHE Steering Committee Meeting  
1 – 4 December 2020  
Virtual Meeting

# International Renewable Energy Agency (IRENA) (162 Members)



**IRENA:** Promotes widespread use of all forms of RE, including role for green H2 in energy transition

- Global facilitator, disseminates analytical information, exchanges and collaborations on Strategies
- Recent Publications related to H2:
  - [Green hydrogen: A guide to policy making](#) Nov 2020;
  - [Hydrogen: A renewable energy perspective](#) Sept 2019;
  - [Hydrogen from renewable power: Technology outlook for the energy transition](#) Sept 2018

## Collaborative Framework on Green Hydrogen (CFGH):

- Dialogue, co-operation and coordinated action to deploy hydrogen from renewable sources.
- Focus on Standards & Infra for green H2 – H2PA TF on World PtX Summit Agenda 1 Dec 2020

**IRENA is looking to engage the IPHE via a MOU** – details are to be determined

## Potential IPHE and IRENA/CFGH Collaborations:

1. Engaging and sharing information with Members on the latest policies & deployments in H2
2. Facilitate getting insights from IPHE countries on H2 strategies, considering unique circumstances



# World Economic Forum

**Clean Hydrogen Community (CHC):** Group of 50+ public and private organizations; struck in Davos 2020

**Focus:** Collaborate to scale up clean H2 by increasing demand in hard-to-abate sectors bring down costs by 2025

**3 Themes** – at the latest Meeting of the CHC 22 October

**1. Enabling Measures & Policy** – IRENA Lead

- Aligning the community around off-take commitments and increase global ambition
- Standardizing H2 terminology and approach with regards to Guarantees of Origin
- Case studies: Measures addressing barriers to scale for specific sectors or H2 Hubs that combine sectors
- National case studies and cross-comparison of national strategies

**2. Finance** – McKinsey Lead

- Establishing sectoral investment blueprints/archetypes
- Transferring learnings from solar and wind cost trajectories
- Developing a de-risking blueprint and analyzing hedging and risk mitigation solutions

**3. Early Demand Sectors and Trailblazer Projects** – Energy Transitions Commission Lead

- Identify and map of potential early-demand sectors, and how they could be combined in H2 Hubs
- Map and matchmaking platform for the development and scale-up of H2 Hubs
- Develop blueprints to demonstrate commercial viability for different types of H2 Hubs

# International Energy Agency

## Technology Perspective

Fuel Cell Technology Collaboration Programme (TCP)

Hydrogen TCP

## Clean Energy Ministerial Secretariat – [H2 Initiative](#)

## Energy Technology Policy Perspective

[Future of Hydrogen](#) – G20 June 2019; [Hydrogen Tracking Report](#) - June 2020; [Energy Technology Perspectives](#) – September 2020; Numerous Articles (e.g., [Batteries and Hydrogen Technology: keys for a clean energy future](#) May 2020) and Commentaries (e.g., [Aligning investment and innovation in heavy industries to accelerate the transition to net-zero emissions](#))

## IEA/ETP Looking to Collaborate with the IPHE: Data and Policy Information

IEA is working on the **Global Hydrogen Review (GHR)** – looking for robust, consistent data

Looking to work with IPHE to get the latest information on: (As per the Hydrogen Council)

1. Deployments
2. Deployment Targets by When
3. Government Funding Support (Funds and Mechanisms) over What Timeframe

# International Hydrogen Initiatives



Technology Focus

Policy & Markets Focus

ALL HYDROGEN PROFILES

CLEAN HYDROGEN ONLY

**Hydrogen Energy Ministerial**  
*Global Action Agenda (GAA), framework & requests to 10's; 10, 10, 10 Targets + future targets; Platforms for H2 supply chain, mobility*

**International Partnership for Hydrogen and Fuel Cells in the Economy**  
*Global initiatives and GAA actions tracking & dissemination; Education & outreach; Regulations, Codes, Standards, Safety; Facilitate Int'l Trade & Harmonization*

**Hydrogen Council (Industry)**  
*Works with IPHE, CEM, HEM, MI, others: Deployments, Public Private Partnerships, Finance & Investment*

**Mission Innovation 2 (Hydrogen Challenge)**  
*R&D and Innovation-push; Technology goals; Missions – pilot projects*

**Clean Energy Ministerial (Hydrogen Initiative)**  
*Policy and market-pull; Deployment/cost goals and targets; Policy/project review, analysis, and experiential learning*

**International Renewable Energy Agency (IREA)**  
*Renewable Energy (RE) based hydrogen, awareness & investment opportunities with RE*

**World Economic Forum (Accelerating Green Hydrogen)**  
*C-Suite Industry and Gov't Engagement; UNFCCC focus*

**IEA: Technology Collaboration Program** - R&DP, techno-economic analysis, crosscutting issues, IEA's analytical support

**IEA: Energy Technology Policy** - Track tech deployment; policy & market analysis; scenarios; high-level gov't & industry exchange

Links between Ministerial meetings



# Thank you



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