



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

## *India* Update

35<sup>th</sup> IPHE Steering Committee Meeting  
22 – 23 June 2021  
Virtual Meeting

# Announcements / New Initiatives (India)



## National Hydrogen Energy Mission

- Announced by Hon'ble Prime Minister of India in November 2020
- MNRE developed draft **Mission** document: currently under consultation process
- Lays down **Government of India's vision, intent and direction for hydrogen** and **suggests strategy, approaches**

## New Research & Development, Demonstration and/or Deployment Activities

- **LT-PEM Fuel Cells production facility** at ARCI – Centre for Fuel Cell Technology
- Successful trial runs of the **50 buses fuelled by hydrogen enriched CNG (H-CNG)** in Delhi

## Key Collaborations

- Joint **US-India Public Private Hydrogen Task Force** launched



# India – Profile June 2021

## Status of Deployments

- 2 HRS
- 6 FC buses
- 50 HCNG buses
- 2 H2 IC Engine buses
- 15 3-wheelers
- Projects under development: FC bus fleets, Green Ammonia, Railways, H2 based energy for high altitude regions and islands

## Leading Government Initiatives

- Ongoing RD&D program on Hydrogen and Fuel Cells; National Hydrogen Energy Mission under development – *Ministry of New and Renewable Energy*
- Basic Research & Technology Development program on HFC – *Department of Science and Technology*
- Faster Adoption and Manufacturing of Electric Vehicles (FAME-II) Scheme – *Department of Heavy Industry*
- Development of Standards for Hydrogen fuelled Vehicles – *Ministry of Road Transport & Highways*

## Goals or Focus Areas

- Demand Creation
- Pilot Projects
- Infrastructure
- R&D
- Standards & Regulatory framework
- Indigenous Manufacturing

## Deployment Goals

To form part of the National Hydrogen Energy Mission

## Funding

USD 5 Mill/year – R&D program  
Composite funding proposed under the Mission

# Thank you



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