



International Partnership
for Hydrogen and Fuel Cells
in the Economy

***INDIA* Update**

33rd IPHE Steering Committee Meeting
16-19 June 2020

R&D Update *INDIA*

- Projects supported in premier universities, research institutions and industries
- Major ongoing projects include:
 - Pilot scale **hydrogen production** facility through **biomass gasification** at Indian Institute of Science
 - Development of **20 kW LT-PEM Fuel Cell stacks** at ARCI – Centre for Fuel Cell Technology
- Department of Science and Technology funds basic research in FCH



Demonstration & Deployment Update *INDIA*

Proposal being development for Fuel Cell vehicles in Leh

- Proposal to demonstrate FCEVs in high altitude region of Leh in the Himalayan region
- Green hydrogen to be produced from Solar PV powered electrolysis
- NTPC Ltd. launched a global EoI for FCEVs in April

H-CNG fuelled city transport buses in Delhi - Indian Oil Corporation

- H-CNG generation plant has been commissioned
- 50 Buses are ready for pilot run and will commence as soon as the the pandemic situation allows

In addition, Indian Oil Corporation has also brought out a tender for 15 fuel cell buses to be sourced indigenously

Status of Deployments

- 2 HRS
- 10 FC buses
- 2 IC Engine buses
- 15 3-wheelers

Leading Government Initiatives

- RD&D program on Hydrogen and Fuel Cells – Ministry of New and Renewable Energy(MNRE)
- Basic Research & Technology Development program on HFC – Department of Science and Technology (DST)
- Faster Adoption and Manufacturing of Electric Vehicles (FAME-II) Scheme – Department of Heavy Industry (DHI)

Goals or Focus Areas

- Hydrogen from Renewables
- Safe and efficient storage
- Developing affordable Fuel Cells and Electrolysers
- Demonstration and deployment for transportation, energy storage and stationary power

Deployment Goals

N.A.

Funding

USD 2.5 Million – MNRE
Separate funding from DST, DHI



Thank you



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