



INTERNATIONAL PARTNERSHIP FOR HYDROGEN AND FUEL CELLS IN THE ECONOMY

IPHE Country Update October 2019: India

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Covered Period	May 2019 to October 2019

1. New Initiatives, Programs, and Policies on Hydrogen and Fuel Cells

Nil

2. Hydrogen and Fuel Cell R&D Update

The Ministry's Research, Development and Demonstration (RD&D) programme on Hydrogen Energy and Fuel Cells focuses on: hydrogen production from renewable routes; development of materials and techniques for safe and efficient storage of hydrogen; development of indigenous and affordable fuel cells; and demonstration of hydrogen and fuel cell technologies in various niche applications.

- Projects are being supported in premier universities, research institutions and industries.
- Ongoing projects include pilot scale hydrogen production facility through biomass gasification at Indian Institute of Science, and development of LT-PEM Fuel Cells at ARCI – Centre for Fuel Cell Technology.
- Department of Science and Technology is also funding basic research proposals in Hydrogen and Fuel Cell. The department has established two networked centres for hydrogen storage at IIT Bombay and NFTDC Hyderabad.

3. Demonstration, Deployments, and Workforce Developments Update

- i. In July 2019, Ministry issued a call for proposals for demonstration of Fuel Cell Buses in Delhi NCR. Proposals for the same are currently under evaluation.
- ii. Indian Oil Corporation is implementing a project on H-CNG fuelled city transport buses in Delhi. The pilot project of 50 buses is expected to commence in November 2019.

4. Events and Solicitations

Nil

5. Investments: Government and Collaborative Hydrogen and Fuel Cell Funding

For the period 1 April, 2019 to 31 March, 2020, there is a provision of INR 200 Million (USD 2.8 Million) for hydrogen energy and fuel cell related activities in the MNRE budget.

6. Regulations, Codes & Standards, and Safety Update

Nil