



Ministry of New and Renewable Energy Government of India

Country Update - INDIA

26th IPHE Steering Committee Meeting Gwangju, Republic
of Korea, Nov 3, 2016



Country Update - India

Emphasis on supporting RD&D Projects on hydrogen energy and fuel cell technologies is continuing

4 new projects were supported during 1 April, 2016 to 31 October, 2016
4 more new projects likely to be supported by 31 March, 2017



2 mini-buses based on Hydrogen ICE



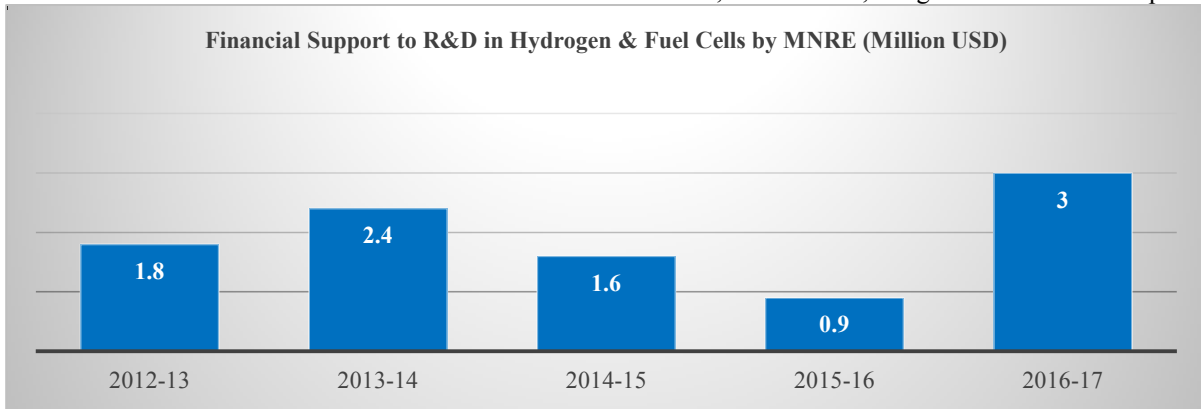
15 Hydrogen fuelled 3-wheelers



Hydrogen refueling facility at NISE, Gwal Pahari, Gurgaon



10 Fuel Cell buses are under development by Tata Motors Ltd





Report of Steering Committee on Hydrogen Energy and Fuel Cells – *Hydrogen Energy and Fuel Cells in India – A Way Forward*, has been submitted and approved. Available on website of MNRE (www.mnre.gov.in)

Report identifies projects to be taken up in Mission mode, R&D and Basic research

Following 8 Mission mode projects to be taken up on priority

HCNG fuelled bus demonstration in select city bus fleet

Hydrogen fuelled IC engine bus demonstration

Design and development of 20kW Low Temperature Polymer Electrolyte Membrane (LT-PEM) fuel cell with high indigenous content

Design and development of indigenous type III carbon composite cylinders for compressed hydrogen storage

Indigenization of high strength steel cylinders for high pressure ground hydrogen storage

Augmentation of the Testing and Certification facilities for HCNG and hydrogen fuelled vehicles at the existing centre(s) of automobile testing

Three wheeler / auto running on gaseous hydrogen fuelled IC engine using alloy hydride / intermetallics for hydrogen storage

Wind energy based electrolyser for hydrogen and oxygen production for cryogenic rocket propulsion



Opportunities for Collaboration – RE INVEST 2017



RE-Invest 2017, the second edition of the biennial Global Renewable Energy Investors' Meet & Expo, will explore the advances made on the ground to achieve India's target of 175 GW renewable energy capacity by 2022.

Government stakeholders, investors and top executives from across the world in renewable energy are welcome.

An opportunity to view the progress made in India in various renewable energy domains.

For more information, please refer the website: <http://re-invest.in/>