

**GOVERNMENT OF INDIA  
NEW AND RENEWABLE ENERGY  
LOK SABHA**

UNSTARRED QUESTION NO:1205  
ANSWERED ON:17.08.2012  
DEVELOPMENT OF HYDROGEN FUEL  
Sayeed Muhammed Hamdulla A. B.

**Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:**

- (a) whether the research is being undertaken by the Government for development and handling of hydrogen fuel;
- (b) if so, the details thereof; and
- (c) the steps taken/being taken by the Government in this regard?

**Answer**

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH)

(a): Yes, Madam. Ministry of New and Renewable Energy supports Research, Development and Demonstration projects at various R&D organizations in academic institutions and in industry on hydrogen production through renewable energy, its storage and its dispensing for further utilisation.

(b): The projects include production of hydrogen by splitting of water using solar and wind energy; through fermentation of biological wastes; gasification of bio-mass and reformation of bio-mass derived glycerol. Two demonstration facilities for production of hydrogen through electrolysis of water and its storage in high pressure cylinders have been set up. Hydrogen so produced is blended with Compressed Natural Gas (CNG) to operate different types of demonstration vehicles. Another facility for storage and dispensing of hydrogen for experimentation with hydrogen fuelled three wheelers is currently in operation in New Delhi.

(c): In addition to the on-going R&D programme on the subject, the Ministry of New and Renewable Energy has recently constituted a Steering Committee to co-ordinate further activities on hydrogen production, its storage, its applications for transportation & electricity generation, and related regulatory measures.