

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

UNSTARRED QUESTION NO:4897  
ANSWERED ON:23.04.2015  
PROMOTION OF ALTERNATIVE FUEL  
Chowdhary Shri Pankaj

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

- (a) the efforts being made by the Government towards advanced energy technologies such as Hydrogen and alternate fuel for private and public transport;
- (b) whether the Government is making any effort to set up a joint venture in collaboration with foreign countries in this regard; and
- (c) if so, the details thereof and if not, the reasons therefor?

**Answer**

THE MINISTER OF STATE FOR POWER, COAL & NEW AND RENEWABLE ENERGY (INDEPENDENT CHARGE) (SHRI PIYUSH GOYAL)

(a): Yes, Madam. The Ministry of New and Renewable Energy under its broad based Research, Development and Demonstration programme has been supporting projects at academic institutions, research & development organizations and industry on different aspects of hydrogen energy and biofuels for surface transportation. A total of 35 Research & Development (R&D) projects are presently under implementation on different aspects of hydrogen energy that includes its production, storage, applications in internal combustion engines and fuel cells, and also in the area of biofuels, which primarily includes biodiesel and bio-ethanol. Apart from R&D efforts in the area of biofuels, a national policy on bio- fuels was announced in 2009 for development, production and use of biofuels. As a result of R&D projects supported by the Ministry, some prototype vehicles, which include motorcycles, three-wheelers, cars and mini buses fueled by hydrogen or hydrogen blended compressed natural gas have been developed in the country.

(b)&(c): At present there is no proposal under consideration of the Government to set up joint ventures in the areas of hydrogen energy and biofuels for surface transportation. However, Indian companies, academic institutions and research organisations can collaborate with foreign companies or institutions for development of technologies in these areas.