

# TECH-NEWS

(An initiative of SCIENCE CLUB & PROJECT COMMITTEE, MITS-JADAN)  
Presents Technological Update On

## Hydrogen Energy & Fuel Cell Technology

By

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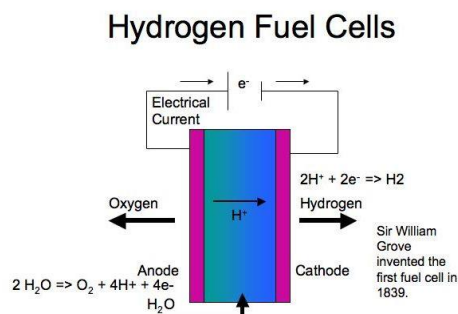
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Date: 4/12/2017

### Introduction:

Hydrogen is the most plentiful element in the universe. Hydrogen is also found in many organic compounds, notably the hydrocarbons that make up many of our fuels, such as gasoline, natural gas, methanol, and propane. Hydrogen is high in energy, yet an engine that burns pure hydrogen produces almost no pollution. NASA has used liquid hydrogen since the 1970s to propel the space shuttle and other rockets into orbit. Hydrogen fuel cells power the shuttle's electrical systems, producing a clean byproduct that is pure water. A fuel cell combines hydrogen and oxygen to produce electricity, heat, and water.

**Keywords:** Hydrogen, Fuel Cell, Hydrocarbon, Green Chemistry, Renewable Energy



**Figure: Representation of basic principle of Hydrogen Fuel Cell**

### Potential Applications of Hydrogen Energy & Fuel Cell:

Following are the areas in which the Hydrogen Energy & Fuel Cells are required:

- Production of electricity, heat and water for various end uses
- Industrial applications
- Vehicular transportation
- Residential applications
- Commercial applications, including in telecom towers for providing back-up power