WATER FUEL POWER GENERATION SYSTEM

Nowadays we are using fossils fuels for running an I.C engine to produce electric energy. This fossil fuel produces harmful byproducts and costly. So here we are using **water as a fuel to generate power** (electricity).

When we introducing anode and cathode into the water the positive charged hydrogen are attracted by cathode and negative charged oxygen is attracted by anode. Here the hydrogen and oxygen are disassociated to form HHO. We can directly feed this HHO into IC engines for running. The engine shaft is connected along with the alternator produces current.

The H_2O molecule is electrically neutral, but the positive and negative charges are not distributed uniformly. The electronic (negative) charge is concentrated at the oxygen end of the molecule, owing partly to the nonbonding electrons, and to oxygen's high nuclear charge which exerts stronger attractions on the electrons. This charge displacement constitutes an electric dipole, represented by the arrow at the bottom; you can think of this dipole as the electrical "image" of a water molecule.

As we all learned, opposite charges attract, so the partially-positive hydrogen atom on water molecule is electro-statically attracted to the partially-negative oxygen on a neighboring molecule. This process is called hydrogen bonding. Notice that the hydrogen is somewhat longer than the covalent O—H bond. This means that it is considerably weaker; it is so weak, in fact, that a given hydrogen bond cannot survive for more than a tiny fraction of a second.

Finally the hydrogen from water is fed to I.C engine to produce mechanical energy and this mechanical energy is converted into electrical energy by using D.C generator. **30%** of power from generator is consumed by **electrolysis** process and remaining **70%** is for **our applications**.

WATER FUEL POWER GENERATION SYSTEM DEVELOPED UNDER VMKVEC – IEDC PROJECT

For Further Information, Please Contact:

Team Leader

Prof. S. Mathan Kumar

Project Concept Team

J Sabarirajan,

F S Jeffrey Immanuvel,

M Saktheeswaran