

Hydrogen Generator

Clean Burning Fuel from Vitalized Water

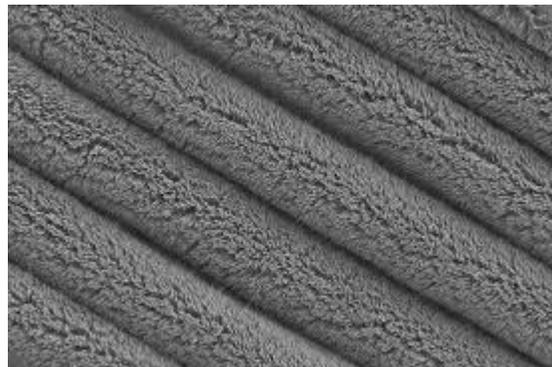
Description

Hydrogen is the most abundant element in the universe. It is clean burning; the exhaust is clean water. Hydrogen is closely looked at as the fuel of the future - it can be used for motor vehicles, electricity generation, airline and rocket fuel. Because it is difficult to obtain in pure form, current methods to get at the hydrogen atom are energy intensive and polluting. One of the main methods is electrolysis - splitting water into hydrogen and oxygen.

The Hydrogen Generator project is designed to drastically increase the efficiency of hydrogen production via electrolysis.



Hydrogen generator - v1.0



Carbon electrodes

Having a device which increases this electrolysis efficiency is very important in addressing sustainable energy solutions. Because vitalized water is shown to increase hydrogen production using existing electrolysis technology, that alone will help address clean energy availability via hydrogen.

Intended Use & Purpose

The hydrogen generator, coupled with the water vitalizer (see "Vitalizer" document), can be used for raw production of hydrogen production. Once hydrogen is made available, it can be compressed and transported. This is very important for any industry utilizing hydrogen - generation of electricity, rocket fuel, motor vehicle fuel, welding, etc.

A small coffee can sized-device can power a car. Using the same basic technology, larger devices can scale up to provide large amounts of electricity.

Status

Recent proof of concept experiments using "classic" HHO electrolysis and vitalized water show a 24% increase in electrolysis hydrogen output. Following traditional methods, parallel stainless steel plates are used as electrodes. A 12 volt DC power source applied produces HHO (hydrogen and oxygen gas). The

output is measured in a water “bubbler” - the time it takes to produce one liter of HHO. When vitalized water is used for this same electrolysis process, HHO output is increased by 24%.

Dunedain is experimenting with new electrode shapes and materials. Initial experiments indicate a further possible increase in efficiency. Funding is necessary to continue these important experiments.

Budget, Resources, Timeline

Classic HHO (electrolysis) technology can be significantly enhanced by introducing vitalized water - this has been proven. Dunedain believes a new approach to splitting H₂O into its atomic components - hydrogen and oxygen - will drastically alter the hydrogen fuel industry.

Project	Scope	Resources	Estimate	Duration
H-Gen: classic	Continue experiments using classic electrolysis technology. The primary focus would be optimizing the water vitalization process to increase efficiency. A vitalizer device would be part of this technology.	Dunedain Machinist Mech engineer	\$250,000	3 months
H-Gen: advanced	Experiment with advanced electrode materials and shapes. The current classic model does not incorporate an accurate understanding of basic electric flow and propagation, and interaction with water.. New designs could revolutionize hydrogen production. A vitalizer device would be part of this technology.	Dunedain Machinist Mech / elec engineer	\$750,000	10 months