

Kenon Miner
Power Packed Water

This project has shown me a great amount of concern for the globe's energy deficit for fossil fuels. Looking at different forms of energy, I stumbled upon electrolysis of water. I learned that when the compound H_2O is electrolyzed, it separates into hydrogen and oxygen molecules. The 2 in the H_2O means that there are two hydrogen molecules for every oxygen molecule, thus more power. Hydrogen when mixed with oxygen becomes a volatile mixture when can auto ignite at 500 degrees Celsius. After hydrogen is lit, it can reach a temperature of 2650 degrees Celsius with substantial power. After being burned, the two gasses undergo a chemical change; this change converts the gasses back into water vapor. This meaning that there is no harmful byproducts such as when coal, oil, or gasoline is burned. With my project I did not prove what I initially set out for, but it did show me that there was high potential for this project again in the future. My device on test one with 5mL of baking soda produced 4692 milliliters of gas in 2 minutes. This little canister succeeded all my expectations, it only holds 1 liter of water, so this project could categorically be used in larger scale, such as industrial applications. A powerful gas that produces no smog or pollution, what better can we ask for? The amps drawn compared to the gas emitted proved that it generates more that it draws. There is no reason that HHO gas could not be the fuel source of tomorrow.