

***Addition of HHO Gas In Genset As of Premium fuel to the fuel Consumption produced,***

*Intan Permatasari, Nim B42130321*

*Renewable Energy Engineering Study Program ,  
Engineering Departement*

***ABSTRACT***

*HHO generator is an energy-generating technology that utilizes pure water as a material. To process the pure water into energy it requires an electric current to reduce the elements - compounds contained in water, this process is called the process of electrolysis of water that occurs in the electrolysis. The product generated by HHO generator is called as HHO gas or brown gas, brown's gas is the result of pure water splitting process (H<sub>2</sub>O) by electrolysis process. Based on the research, the user only uses Wet Cell type pre-designed electrolysis with almunium raw material as anode and cathode. The engine used is only SF 7800 DXE Generator with manifold modification. This study only compares the genset engines given the addition of HHO and without the addition of HHO, and the fuel used is only premium. Treatment of the research using variation of light load that is 400 watt, 800 watt, 1200 watt and variation of Rpm ± 3000, Rpm ± 3250, Rpm ± 3500 test do for 3 minutes. Based on data generated in the study of premium fuel consumption plus HHO decreased in testing with Rpm ± 3250 and ± 3500 but it increased at Rpm ± 300.*

*Keywords: Generator HHO, Wett Cell, Premium Fuel.*