

**Studi Penggunaan Plat Elektroda Netral *Stainless Steel 316* dan Aluminium Terhadap Performa Generator HHO Dry Cell (*Usage Study Netral Electrode Plate *Stainless Steel 316* and Aluminium of Performance Generator HHO Dry Cell Type*)**

**Tasrif Arifin**

*Renewable Energy Engineering Program  
Department of Engineering*

**ABSTRACT**

*Generator is a tool that use principle of water electrolysis to separated the element of pure water consience ( $H_2O$ ) be HHO gas, in effort to increase the perfrom of HHO Generator is needed a conductor materials which has a good electricity character the direction of addition netral electrode plate is to increase the electrolyser perform and to overcome every problem that happen when the water electrolysis process is going. This research shows that netral electrode aluminium plate can increase the performance value and the SS 316 plate can minimize the percentage of losses energy. The pure AMDK solution proofs that can increase the gas productivity than the pure aquadest solution, but the weakness of AMDK solution can to form gel easily, which cause the electrons movement and the flowrate production are blocked. The characteristic of water usage is influence to HHO Generator work maximum value, because for every type of netral electrode plate can not increase the performance of generator. The electricity characteristic of material that every influence is the electronegativity character or electrode potential and the expansion coeficient from the conductor materials.*

**Key Words** : *Electron, HHO Generator, Performance, Netral Electrode Plate, Electrolysis Process*