

**Bioetanol dari Kelobot Jagung Menggunakan Katalis Asam Sulfat. (*Bioethanol from Corn husk Using Sulfuric Acid Catalyst*)**

**Firgiawan Ramadhan**  
Renewable Energy Engineering Study Program  
Engineering Department

***ABSTRACT***

*Bioethanol from corn husk which contains lignocellulose requires an acid catalyst in hydrolysis process to accelerate the rate of reaction. One of the acid catalysts used is  $H_2SO_4$  because it is easily obtained and cheaper than enzyme catalysts. The aims of the study are determine the effect of hydrolysis time and  $H_2SO_4$  concentration toward brix values and bioethanol yield. The method used in this study is a gradual method. With 2 factors, namely concentration (1 M, 1.5 M, 2 M) and hydrolysis time (30 minutes and 45 minutes). The best brix value obtained when  $H_2SO_4$  catalyst 2 M used. The average bioethanol content produced is 4.99% and the yield bioethanol is 8.58%.*

***Keywords :*** *Bioethanol. Brix, Hydrolysis, Corn Husk.*