

***Production of biogas from mixture of tofu waste and vegetables trash market
(cabbage, carrots and chicory)***

Nur Holifah

*Renewable Energy Engineering Program Study
Engineering Department*

ABSTRACT

Biogas is an alternative energy source which can be recycle (renewable energy) that is useful to overcome the needs and energy shortages. This study aims to determine market waste that produces best gas and how long fermentation required to produce gas maximum. The data was undertaken every day untill not produce gas which was during 35 days. Parameters that will be observed is when it started produce gas, volume of gas produced, gas production rate and testing gas. The results shows that the biogas volume, showed the average value of chicory is 7303 ml, cabbage is 6605 ml, carrot is 5293 ml and 6104 ml for tofu as a control. Based on the volume of gas produced, it is known that a mixture of tofu and chicory produces the most gas is 7303 ml and it only takes 4 days to produce gas with a long fermentation period of 35 days.

Keywords: *Biogas, waste tofu, market bins vegetable..*