

***Utilization of the Waste of goat Dung and Coffe Shell As an
Alternative for Chorcoal Briquette With noni Leave as Adhesive***

Risse Entikaria Rachmanita,S.Pd, M.Si as Thesis Supervisor

Muhamad Ilman Fardi

Study Program of Renewable Energy Engineering

Departementof Engineering

ABSTRACT

The waste from ranch's sector as a goat dung has a potential to be made as a fuel in a shape of briquette, but it needs other compositions for the sake of burning. For the reason aforementioned earlier, the coffee shell is chosen to be made as a mixture. Biomass briquette generally uses tapioca as adhesive; therefore tapioca remains as one of the food materials. Noni leave has potential to be made as an adhesive for making goat dung briquette, as a substitute for tapioca adhesive. This research is being done to producing a briquette, made from goat dung and coffee shell, and the other purpose is to knowing the characteristics briquette that will have been made. Briquette is being made with the percentages of noni leave 20%, 25% and 30%. Compositions of briquette made are appropriated with the SNI characteristics for the class of briquette (Indonesian Standard), they are KKM1. The best composition for briquette is with noni leave mixture 20%, with the water content 5.96%, ash content 5.54%, density amount 0.66g/cm^3 and pressure test amount 1.10kg/cm^2

Key words: *Briquette, Goat Dung, Coffee Shell, Noni Leave.*