

**Briquet Limbah Serbuk Gergaji Kayu Mahoni Dengan Variasi Kotoran Sapi
Menggunakan Perekat Bubur Kertas** (*Briquette from waste of wood sawdust
with cow dung variations using paper pulp as adhesive*)

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ABSTRACT

Energy is one of the world's main problems nowadays, where every year the requirement for energy is gradually rising along with human's activities that use fuel, especially for fuel oil, therefore the world will be needing alternatives for replacing fuel oil, one of those is briquette, produced from biomass processing. The purposes for doing this research are to know the briquette characteristics, influences, and the best composition produced from the addition of cow dung into briquette made from mahogany sawdust charcoal and paper pulp as adhesive. The results from the research that was done earlier showing that the best composition for briquette was from B, used composition 1:2 (cow dung : mahogany sawdust charcoal), with all parameters corresponded with SNI 1-6235-2000, except for calorie amount parameter test. Briquette with composition B does have the parameter of water content test 5.143%, ash content test 3.31%, calorie content test 4854 calorie/g, density test 1.049 gr/cm³, bulk density test 0.336gr/cm³, burning rate test 0.0179 gr/sec, and pressure test 1.150 kg/cm³.

Key words: Briquette, biomass, sawdust, cow dung, paper pulp.