

**USING WASTE COFFEE AND COCONUT SHELL AS FUEL FOR  
BANANA LEG STICKERS BRIQUETTES**

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**ABSTRACT**

*Coffee grounds waste and coconut shells are abundantly available in Indonesia and have potential as raw materials for briquette production. This study aims to test the quality of briquettes made from coffee grounds and coconut shells with banana leaf adhesive through proximate analysis with 3 treatment variations. The treatment variations of coffee grounds and coconut shell with banana leaf adhesive include Variation 1 is a mixture of 70% coffee grounds and coconut shell and 30% banana stem adhesive, Variation 2 is a mixture of 65% coffee grounds and coconut shell and 35% banana stem, and Variation 3 is a mixture of 60% coffee grounds and coconut shell and 40% banana stem Overall, the three treatment variations meet SNI standards. Briquettes with good quality were produced by variation 1 with a density of 0.74 g/cm<sup>3</sup>, moisture content of 7.26%, ash content of 6.14%, burning rate of 0.047 g/sec, and calorific value of 5,815 cal/g. Thus, coffee grounds and coconut shell briquettes with banana leaf adhesive are suitable for use as alternative fuels.*

**Keywords:** *briquettes; coffee grounds waste; coconut shell*