

***Manufacture of Briquettes from Palm Shells using Wuluh Starfruit Leaf  
Adhesive as An Environmentally Friendly Alternative Fuel***  
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***ABSTRACT***

*One of the biomass raw materials that can be used is oil palm shells. The adhesive material used is starfruit leaves, starfruit leaves are abundant and underutilized around the community. The purpose of this study was to determine the characteristics of charcoal briquettes produced from oil palm shells with starfruit leaf adhesive, and to determine the best composition. The research method used is the experimental method and the physical characteristics of the briquettes. The results of the study found that oil palm shell briquettes with starfruit leaf adhesive included SNI and did not approach commercial quality standards and English briquette quality standards. Where in this composition has a calorific value of 5.595.5 cal/g, water content 7.48%, ash content 2.32%, density 0.6458 gr/cm<sup>3</sup>. It shows that the raw material for charcoaled palm oil shells can be used as raw material in the manufacture of briquettes, and also wuluh starfruit leaf adhesive can be used as an adhesive with consideration of mixing adhesives or variations in the use of adhesives.*

***Keywords: briquettes, oil palm shells, wuluh starfruit***