

ABSTRACT

Modifikasi Dan Uji Kinerja Kompor Tekan Dengan Bahan Bakar Minyak Jelantah. (*Modifications And Performance Test Stove Fuel Tap With Use Cooking Oil*). Advisor Ir. M. Joko Wibowo, MT.) and Dr. Bayu Rudiyanto, ST, M.Si.

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One of the abundant renewable energy sources, namely household organic waste and industry, one of which waste cooking oil or commonly called used cooking oil. Used cooking oil has the potential to be used as a substitute fuel for cooking. Used cooking oil is a residual oil from processed foods and one alternative fuel that can be used for fuel in the kitchen, the use of used cooking oil using a modified burner stove outcome of the rose with the addition of the heating coil and container spirtus. experiment conducted laboratory Renewable Energy Engineering Polytechnic of Jember in order to know the performance of the stove once modified, the consumption of fuel stove and stove efficiency. Stage research activities that modifications roses or burner stove, the addition of copper pipe coil, additions and modifications methylated reservoir fuel tube. Results of testing used cooking oil burner stove Differences include modified and stove BPPT is the winding layout of this modification stove heating pipes at the bottom of the stove burner while BPPT at the top of the burner. Fuel consumption is 21.6 ml / min while after the modified fuel consumption of 2.3 ml / min, the temperature comparison burning stove with cooking oil is greater that 542 °C, while kerosene at 495 ° C, or greater 8.6 % used cooking oil than kerosene

Keywords: cooking oil, stove roses, modification, winding copper pipes, efficiency and starter.