

Design and manufacturing the simple bioetanol stove for IBU-IBU PKK SINGOSAREN, WUKIRSARI, IMOGIRI, BANTUL YOGYAKARTA

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ABSTRACT

Development quality of human resources, especially the youth, is very important. Many indication that the quality of human Indonesia is still low, the indicator is the Human Index of Indonesian people is still low. One of the efforts to improve the quality of human resources is through training and short courses. The purpose of this activity are: (1) give a brief knowledge to the group of Ibu-Ibu PKK Dusun Singosaren, Desa Wukirsari, Kecamatan Imogiri, Kabupaten Bantul, Daerah Istimewa Yogyakarta on the use of soft drink cans; (2) a brief practice of making bioethanol stove of material soft drink cans.

Activity methods are lectures, demonstrations and practice. Brief lectures conducted by Muh Khotibul Umam related to bioethanol and renewable energy, while demonstrations and simple practice of making bioethanol-fueled stoves made by Jarwo Puspito and Endaryanto. The training was attended by 25 participants.

The results of activities of the participants were able to make simple bioethanol-fueled stove made from soft drink cans with simple equipment. Furthermore, these stoves are tested its performance by means used to cook water. Stove made of participants were able to light up within 20 minutes and were able to cook water within 10 minutes.

Kata Kunci: *Stove, Bioethanol, Energy Efficient*