

ABSTRACT

SAMUEL GABRIEL JEREMY JACOB, Factors that Affect The Motivation of Farmers Utilizing Biogas in Umbulharjo Village of Cangkringan Subdistrict of Sleman District. Guided By Mr. Vandrias Dewantoro And Mrs. Nanik Dara Senjawati.

The purpose of this study was to analyze the determine extent of factors forming age, number of family, non-formal education, and attitude affect in farmers motivation to utilize livestock manure as an alternative energy in biogas for household needs and to analyze household expenditure savings for cook to biogas farmers user compared with farmers who do not use biogas.

The study method using descriptive method with survey techniques. The method to determine the location is purposive sampling method or intentionally. Method to determine the respondent using census method comprised of 40 farmers. The data used are primary and secondary data. Data sources in this study is related to the farmers in Umbulharjo Village, Umbulharjo village office, and literature review. The techniques to collect the data using observation, interview, and questionare. The analysis method using multiple linear regression analysis to test the accuracy of the model, F test, t tes and independent t-test.

The result showed that the factors forming age, number of family, non-formal education, and attitudes is affecting the farmers motivation to utilize livestock manure as an alternative energy in biogas and the second result is there are savings of household expenditure about Rp. 14.750/month for cooking on farmers who use biogas compared to farmers who do not use biogas.

Key Word: Motivation, Expenditure, Biogas.