

ABSTRACT

Global warming is the increasing of the average temperature in the atmosphere, ocean, and mainland on Earth. Increasing of global warming was caused by air pollution of carbon emissions, among others, the use of LPG, the gasoline, and the electricity. The carbon emissions can be reduced by absorption of vegetation. This study compare the carbon emissions by in Buana Sakti Village with carbon stored in the private forest of Buana Sakti Village. The research objective was to determine the ratio of carbon emissions from the use of LPG, the gasoline, and the electricity with carbon stored on the vegetation in the private forest. The method used in this research is to calculate carbon emissions in the use of LPG, the gasoline, and the electricity. Carbon sequestration obtained from the calculation of the biomass of trees, understorey, and nekromassa. Carbon emissions by in Buana Sakti Village is 6,16 tons and the carbon stored in the Buana Sakti Village is 95,03 tons. From the data obtained, the private forest is able to tackle carbon emissions resulting from the use of LPG, the gasoline and, the electricity in the Buana Sakti Village. Therefore, the private forest must be preserved so that the amount of carbon in the atmosphere remain balanced and the public can still take advantage of the results of the private forest.

Keywords: Carbon emissions, Carbon Stored, Private Forest