ABSTRACT

This research aims to analyze the effect of economic growth, foreign direct investment, unemployment, and population to driving renewable energy production in ASEAN region. Independent variables used in this research are gross domestic product per capita, foreign direct investment, unemployment, and population in 7 ASEAN's country (Indonesia, Laos, Malaysia, Myanmar, Philipphines, Thailand, Vietnam) from 2010 to 2019, and data collected from World Bank. Dependent variable used in this research is renewable energy production in 7 ASEAN's country (Indonesia, Laos, Malaysia, Myanmar, Philipphines, Thailand, Vietnam) from 2010 to 2019, and data collected from International Renewable Agency.

The panel data model used in the analysis is fixed effect and estimated with e-views program. Coefficient of determination value is 0.955 means that the relation between dependent and independent variables can be explained 95,5 percent in the estimated model and the rest 4,5 percent is explained out of the estimated model.

The results of this research shows gross domestic product per capita, unemployment, and population has positive impact on renewable energy production in 7 ASEAN's country (Indonesia, Laos, Malaysia, Myanmar, Philipphines, Thailand, Vietnam). Meanwhile, foreign direct investment has negative impact on renewable energy production in 7 ASEAN's country (Indonesia, Laos, Malaysia, Myanmar, Philipphines, Thailand, Vietnam).

Keywords : *Renewable energy production, economic growth, foreign direct investment, unemployment, population, panel data*