## ABSTRACT

This study aims to analyze the relationship and the effect between foreign direct investment, renewable energy consumption and carbon dioxide (CO2) emissions in Indonesia in 1990 – 2019. This research uses the Vector Error Correction Model (VECM) method and the Granger causality test. The results show that there is a unidirectional causality relationship from the renewable energy consumption variable to foreign direct investment. On the other hand, based on the results of the short-term Vector Error Correction Model (VECM) estimates, there is no significant effect of foreign direct investment and renewable energy consumption on carbondioxide (CO2) emission levels. However, in the long run, foreign direct investment has a positive and significant effect on carbon dioxide emissions. This means that an increase in FDI entering Indonesia will be followed by an increase in the amount of carbon dioxide (CO2) emissions. In addition, the renewable energy consumption variable has a negative and significant effect on the level of carbon dioxide (CO2) emissions. This means that an increase in renewable energy consumption will lead to a decrease in the amount of carbon dioxide (CO2) emissions in Indonesia.

*Keywords*: foreign direct investment, renewable energy consumption, carbondioxide emissions (CO2), Vector Error Correction Model (VECM).