

ABSTRACT

Riska Amaliya Arifin. An Analysis of the Influence of Industrial, Agricultural, and Transportation Sector GDP on Carbon Dioxide Emissions in Indonesia. Supervised by Mrs. Nurul Subkhania, S.E., M.Si.

This study aims to analyze the influence of the Gross Domestic Product (GDP) of the industrial, agricultural, and transportation sectors on carbon dioxide (CO₂) emissions in Indonesia during the period from 1994 to 2023. The method employed in this research is multiple linear regression analysis using time series data and secondary data from Indonesia. The dependent variable in this study is CO₂ emissions, while the independent variables consist of GDP in the industrial, agricultural, and transportation sectors. The results indicate that the GDP of the industrial and transportation sectors has a positive and significant effect on CO₂ emissions, while the GDP of the agricultural sector does not show a significant effect. The coefficient of determination suggests that the model is effective in explaining the variation in CO₂ emissions.

Keywords: industrial GDP, agricultural GDP, transportation GDP, CO₂ emissions, multiple linear regression, time series data

ABSTRAK

Riska Amaliya Arifin, Analisis pengaruh PDB sektor industri, pertanian dan transportasi terhadap emisi karbon dioksida Indonesia. dibawah bimbingan Ibu Nurul Subkhania, S.E., M.Si.

Penelitian ini bertujuan untuk menganalisis pengaruh PDB Sektor industri, pertanian dan transportasi terhadap emisi karbon dioksida periode 1994 hingga 2023. Metode yang digunakan adalah analisis regresi linier berganda dengan menggunakan data runtut waktu (*time series*) dan data sekunder di Negara Indonesia. Variabel dependen dalam penelitian ini adalah Emisi CO₂, sedangkan variabel independen terdiri dari PDB sektor industri, pertanian dan transportasi. Hasil analisis menunjukkan bahwa PDB sektor industri dan transportasi memiliki pengaruh positif dan signifikan terhadap emisi CO₂, sedangkan PDB sektor pertanian tidak menunjukkan pengaruh signifikan. Koefisien determinasi mengindikasikan efektivitas model dalam menjelaskan variasi emisi CO₂.

Kata Kunci: *PDB industri, PDB pertanian, PDB transportasi, emisi CO₂, regresi linier berganda, data time series*