

Analisis determinan emisi karbon dioksida di Indonesia = Analysis of the determinants of carbon dioxide emission in Indonesia

Simanjorang, Bonataon M.T.V., author

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Abstrak

ABSTRAK

Tesis ini menganalisis determinan emisi karbon dioksida (CO₂) di Indonesia dihubungkan dengan hipotesis Environmental Kuznets Curve (EKC). Permodelan empiris dilakukan dengan Simultaneous Equation Model (SEM) antara produk domestik bruto (PDB) per kapita dengan emisi CO₂ dengan menggunakan data runtut waktu dari 1974 hingga 2011. Uji Hausman melihat hubungan simultan dan endogenitas dari PDB per kapita dan emisi CO₂. Dengan metode Two-stage Least Squares (2SLS) diperoleh hasil hipotesis EKC berlangsung di Indonesia. PDB per kapita, peranan industri terhadap perekonomian, dan kepadatan penduduk berpengaruh signifikan meningkatkan emisi CO₂. Namun demikian, konsumsi energi terbarukan tidak secara signifikan berpengaruh menurunkan emisi CO₂.

ABSTRACT

This thesis analyzes determinants of carbon dioxide (CO₂) emission in Indonesia associated with Environmental Kuznets Curve (EKC) hypothesis. Empirical modelling with Simultaneous Equation Model (SEM) between per capita gross domestic product (GDP) and CO₂ emission by using time series data from 1974 to 2011. Hausman tests investigate simultaneous relationship and endogeneity between per capita GDP and CO₂ emission. By Two-stage Least Squares (2SLS) method, results support Environmental Kuznets Curve (EKC) hypothesis. GDP per capita, share of industry, and population density significantly affect the increasing of CO₂ emission. However, renewable energy consumption did not significantly affect the reducing of CO₂ emission.