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Carbon Dioxide Emissions, Energy Consumption, Economic Growth and Openness In Turkey: Cointegration Analysis/ Türkiye’de Karbondioksit Emisyonu, Enerji Tüketimi, Ekonomik Büyüme ve Dışa Açıklık İlişkisi: Eşbütünleşme Analizi

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A B S T R A C T

The aim of this study is to analyze the relationship between carbon dioxide emissions, road sector energy consumption, economic growth and trade openness in Turkey. In this context, we examined over the period of 1967-2010 based on annual data. We applied Johansen (1990) Maximum Likelihood-Trace approaches to test for a long run relationship between variables and obtained cointegration relation. According to the analysis results, in the long term, there is a relationship between carbon dioxide emissions, road sector energy consumption, economic growth and trade openness. Economic growth, road sector energy consumption and trade openness have a positive impact on CO2 emissions in Turkey. As a result of these findings we have offered various policy recommendations.

KEYWORDS Carbon Cointegration

JEL F2, O1, Q4, Q5