

Relationship Between Co2 Emissions and Fossil Fuel Usage in Energy Production in Turkey: A Scenario Analysis / Türkiye’de Enerji Üretiminde Fosil Yakıt Kullanımı ve Co2 Emisyonu İlişkisi: Bir Senaryo Analizi

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ABSTRACT

The use of fossil fuels in electricity generations is a major factor that increases CO2 emissions. In this paper, annual data between 1986-2013 used to predict CO2 emissions. Predictions based on alternative generation scenarios with different fuel combinations and the long run relation between fossil fuels and CO2 emissions. Electricity generation is predicted by using BoxJenkins methodology to accounting emission changes in Turkey. Then generation predictions used to account CO2 emissions with different fuel combination scenarios. Accordingly, how the CO2 emissions changes under alternative scenarios that the continuation of the current situation in electricity generation and the use of natural gas and renewable resources as an alternative to coal has been evaluated depending on generation forecast.

KEYWORDS User Characteristics; Technology Acceptance Model; FATİH Project; Smart Board; Bartın High School

JEL A22, I28, O33