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TO BE RICH OR TO BE GREEN- THE DILEMMA BETWEEN GDP AND CO2 EMISSIONS PER CAPITA

Abstract:

The offered study tackles the problem of whether a country can be synchronously rich and "green". The toolkit applied to resolve this dilemma, on the one hand, involves a review of theoretical sources on the issue, and on the other hand, necessitates a conduct of an empirical study of the dependencies between economic growth, and in particular GDP per capita and carbon dioxide emissions (CO2) per capita. This is an assessment method of the eventual impact of economic growth on environmental degradation. An evaluation of the theories indicates that a relationship exists between economic growth and environmental degradation, however it is multidimensional. The outcomes of the in-depth analysis of the relationship between economic prosperity and environmental sustainability, after applying correlation and regression analyses, along with the RANSAC regressor, actually reveal that there is a positive relationship between CO2 emissions and GDP per capita. The visualization of the results gives a clear idea of the relationship for each year of the research period. These findings contribute to the current debate concerning the balance between economic growth and environmental protection.

Keywords:

Green transition, GDP per capita, Economic growth, CO2 emissions per capita

JEL Classification: E01, O40, Q01