

عنوان مقاله:

Comparison of EPI in the field of climate changes indexes in Iran and other countries in ۲۰۲۰ and the relationship between GDP and EPI

محل انتشار:

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خلاصه مقاله:

Background: This study aimed to evaluate the Environmental Performance Index (EPI) in the field of climate changes in Iran in ۲۰۲۰, to compare these indexes in the Middle East countries and developed countries, and to evaluate the relationship between these indexes and gross domestic product (GDP) in Iran and some of the Middle East countries, as well as ۱۰ developed countries in the world. Methods: Data related to the EPI in the field of climate changes and GDP were extracted from the database of the Yale University (<https://epi.yale.edu>) and the World Bank. The relationship between them was investigated using linear regression analysis. Results: The results showed that in ۲۰۲۰, Iran was ranked fourteenth and sixth among the studied countries, in terms of carbon dioxide growth rate and black carbon growth rate, respectively. It has also been ranked first in terms of carbon dioxide from land cover. Also, Iran was ranked eleventh among the Middle East countries and developed countries in terms of methane (CH₄) growth rate and was ranked sixth among the Middle East countries in terms of greenhouse gas (GHG) per capita and ۱۳th among all studied countries. However, a significant relationship was observed between changes in GDP with GHG emissions of EPI ($R^2 = ۰.۸۲$). Conclusion: Based on the Iran's ranking in the field of climate change performance index, planning to reduce CHGs generation is necessary. Also, education of citizens in the field of methods to reduce greenhouse effects should be done by environmental policy makers.

کلمات کلیدی:

Environmental performance index, Gross domestic product, Iran, Middle East countries, Developed countries

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