

ABSTRACT

In this study, decomposition analysis was employed to study the factors driving the inter region/country variations in CO₂ emissions and other GHG emissions. The regions/countries under investigation were- ASEAN, BRICS, South Asia, India, China and world as a whole. Additionally, we also examined EKC hypothesis in different frameworks to check if the EKC hypothesis can be validated for both CO₂ emissions and other GHG emissions. From the decomposition analysis we can conclude that countries/region do not show a similar behaviour when it comes to explaining emissions- neither CO₂ emissions nor other GHG emissions. There is no common determinant of the inter region/country variations in emissions. The policy implication of such a result is that the possibility of a macro level emission reduction policy is bleak and individual country has to be accommodated for its idiosyncrasies. From the EKC validation exercise, we infer that that CO₂ emissions follows a normal linear equation. But GHG emissions follow a semi logarithmic normal regression equation to validate EKC hypothesis.