

ABSTRACT

BRICS (Brazil, Russia, India, China, South Africa) is a group of countries who has rapid economy growth in last decade. The high economy growth reflected the higher of using resources to create maximum output. But, this causes problem related to give externalities to the environment. Through Millenium Development Goals (MDGs) that has started in 2000 – 2015, countries in the world were committed to reduce enviromental degradation by joining United Nations Global Partnership Consensus and also proving whether there is an U-inverted curve hypothesis (Environmental Kuznet Curve) in BRICS countries 1992 – 2017 period.

This study using the Panel Vector Error Correction Model (VECM) estimation technique to determine the relationship between short and long term for variables to see the correlations of each independent variables towards dependent variable and proving wether an U-inverted curve happen in BRICS Countries. Consensus MDGs using dummy variable to distinguish between period before and after Consensus MDGs is impelemented. This study using the ecological footprint as a variable that described environmental degradation more comprehensively by including the air, land, forest, and water perspectives.

The result showed that EKC was proven in the long term in BRICS countries and not proven in the short term. During the research period, it is known that Russia, India, China, and South Africa has happened an U-inverted curve, however the other BRICS countries which Brazil would be have the same condition in the future due to rapidly economy growth currently. The Consensus of MDGs has no significant effect on reducing environmental degradation. This because the target of each BRICS countries was not achieved specifically in Goal 7 (environment) due to constraint in priotizing economy growth and environmental preservation. The variable of industrialization has negative effect while population, economic globalization, energy consumption has postive effect on environmental degradation (ecological footprint).

Keywords: *Environmental Kuznet Curve, MDGs, environmental degradation, ecological footprint, Vector Error Correction Model.*