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Governance and Environmental Performance

Dr. P.D Taur

Director of Sports & Physical Education MSSs Arts science and commerce College ambad Dist. Jalna Email- prashanttaur1877@gmail.com

Introduction

Human demand on raw materials has continuously increased since the beginning of the Industrial Revolution, leading to an inevitable depletion of natural resources. As Karl Marx stated in his book Capital, the entire development of both civilization and industry has always been destructive to the forests, and by contrast, the effect of cultivation and production on the forests can be considered negligible. The environmental problem sourced from this predicament has gained momentum and finally resulted in a series of environmental pollution incidents.

Focusing principally on the relationship between environmental governance and environmental performance in Asia, Section 2 looks at the history of environmental governance and presents a literature review on the relationship between government expenditure and environmental performance. Section 3 briefly reviews the environmental conditions in Asia and analyzes the evolution of environmental governance in representative Asian countries.

Definition of Environmental Governance

Following economic theory, the law of value is an essential element in governing human behavior, and people are likely to pursue the maximization of benefits, that is, people prefer to generate greater profit at lower cost. Moreover, people won't subjectively or proactively consider the negative externalities of their behaviors, indicating that enterprises tend to dump waste materials directly into the environment because of the low treatment costs. That was the main reason for calling on the state government to take responsibility for environmental governance in the early. In recent years, environmental governance has become a rapidly growing field in both academia and business due to its significant implications for conservation practice.

The Evolution of Environmental Governance

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consumption and mexcludability, which are the typical features of public goods. \(\frac{1}{2}\) Environmental pollution is regarded as an inevitable by-product generated from human economic and social activities, and environmental governance is thus an essential function and responsibility of both national and local governments. Looking back at and reviewing the history of environmental governance, it has experienced three main eras, namely the centralized "command-and-control" regulation, the intervention of a marketoriented economic approach, and the hybrid partnerships among the state and other actors.

After the initial stage of the successful construction of the state-dominated environmental governance pattern in the 1960s and 1970s, more and more stakeholders began to criticize the failure of government to prevent environmental risks and resolve environmental degradation Just like market failure in the business field, there also exists government failure in the governance process, and people gradually realized that government alone may fail to resolve the environmental problem.

Literature Review on the Relationship between Environmental Governance and Environmental Performance

As explained before, environmental protection is generally regarded as a public good, which is widely considered to be the responsibility of the government. And there is a strand of research that linked environmental performance with environmental governance, proxied by government expenditure on environmental protection.classify government expenditure into two categories, namely expenditure on public goods and expenditure on private goods. The former includes expenditure on pure public goods as well as expenditure to mitigate the impact of market failure, while the latter refers to expenditure that cannot be justified on these grounds

They pointout that increasing government expenditure on public transportation has a certain substitution effect on private transportation, while the former has less energy demand and fewer pollutant emissions than the latter. Another channel indicates that a higher level of investment in research and development contributes to the promotion of energy-efficient and energy-saving appliances.

Greenhouse Effect in India

Human beings have been keen to aggressively exploit natural resources ever since the Industrial Revolution, which brought the direct consequence that exhaust gases and

waste materials have been unscrupulously released into the environment. The increasein CO₂ in the atmosphere resulting from the burning of fossil fuels, such as coal and oil, is creating a so-called "greenhouse effect" and consequently raising the world's average temperature. Although the greenhouse effect has been part of the earth's workings sinceits earliest days, a runaway greenhouse effect may in turn make the earth a hostile environment for living things due to its soaring temperatures. Recent statistics reveal that the average global temperature has increased by 0.6 degrees centigrade since meteorological observation records began. Global warming and climate change have already resulted in alarming shifts all over the world, bringing about natural disasters such as melting glaciers and rising sea levels.

Environmental Governance in Representative inIndia

This section presents a simple but clear retrospect on the path of the environmental governance of Asian countries, represented by Japan and the PRC. These two countries have experienced different path of economic growth, environmental pollution and environmental governance.

The environmental pollution problem of Japan arose right after World War II, approximately from the mid-1950s to the mid-1970s, when Japan was in the postwar period and its economy was enjoying a blistering catch-up growth. The Japanese government energetically developed heavy industries, such as the steel, electricity, and petrochemical industries, which consumed a huge amount of natural resources and further resulted in several typical environmental pollution incidents. Suffering the directly adverse impact of environmental pollution, the local residents spontaneously organized campaigns against environmental pollution, and finally evolved into a national protest campaign. Benefiting from the unremitting effort of the public, the Japanese government eventually enacted an official environmental protection act in 1968, namely the Atmospheric Pollution Prevention Law. Nowadays, the environmental quality of Japan has enjoyed a comprehensive improvement compared to a half century ago, which has mainly benefited from the ever-improving environmental legislation system and through the government and authorities being focused on environmental governance.

Data Description

Limited by availability and the quality of the data, we construct an unbalanced panel

data set of countries in total from countries covering the period. In the empirical estimation, we mainly focus on the relationship between government expenditure on environmental protection and three representative factors of environmental quality, which have all been introduced before. Among them, government expenditure on environmental protection is presented as the percentage of GDP, while three environmental variables are the CO₂ emission, energy intensity, and EPI, respectively.

Conclusion

With the interaction between humans and the environment existing throughout the entire development of society, humans' devastating influence on the environment has continued to escalate in the last few centuries. There is no doubt that environmental pollution has become an extremely severe problem in today's world, and the authorities and all stakeholders are believed to have the responsibility to take strong and effective measures to deal with this problem. Looking back through the history of environmental governance, although the actions of modes, policy instruments, and even the actors involved have changed over the last few decades, people have never stopped pursuing a better ecological environment.

empirically demonstrate the significant impacts of governments' environmental expenditure on environmental quality for Asian countries, while the impact is insignificant for European countries. We highlight several conclusions for Asian countries as follows:

- (i) a greater scale of government expenditure on environmental protection contributes to a reduction of CO₂ emission and the promotion of energy efficiency;
- (ii) (ii) excessive economic growth is detrimental to the environment, and increasing GDP per capita leads to increasing CO₂ emission, decreasing energy efficiency, and decreasing comprehensive environmental performance;
- (iii) Although FDI has no impact on CO₂ emission and the EPI, it exerts a significantly negative impact on energy intensity and thus has an effect on energy efficiency. For European countries, all estimations presentsimilar conclusions, that is, a higher level of urbanization, greater trade openness, and alower proportion of industrial value added are beneficial for the environment through lowering CO₂ emission, improving energy efficiency, and promoting

environmentalquality.

Compared with developed economies such as those in the European area, most Asian economies are still located in the left half of the Environmental Kuznets Curve, which indicates that rapid economic development of these developing and emerging countries would seriously exacerbate the environmental pollution problem. It is imperative that Asian emerging economies balance the pros and cons of both economic development and environmental conservation. Empirical estimation shows that foreign direct investment benefits the energy intensity in Asian countries and does not exert a detrimental effect on CO₂ emission and environmental quality, suggesting that Asian economies should implement relevant policies to attract more foreign investment. Although the level of urbanization, industrial value added, and trade openness don't have any significant impact on the environment in Asia, we observe from the case of Europe that these indicators may still exert a certain influence along with the development of the economy.

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