

Technology Adoption and Environmental Policy in Developing Countries

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Abstract

This paper considers the adoption of environmental technology and the environmental policy in developing countries. As for the advanced and high clean technology, it is generally effective in the emission reduction. However, there is a problem that new advanced technology is not utilized effectively even if pollution reduction technology is transferred from developed countries to developing countries. Therefore, this paper analyses human capital for utilizing abatement technology and considers how economies adequately apply technology in order to reduce the amount of pollution, and to achieve a sustainable development in developing countries by dynamic model. As a result, it is found that without a certain level of human capital, the technology may not be chosen properly. This model decides what kind of technology is applied by the level of human capital, and concludes that applying a relatively low-level technology is effective as a policy in developing countries. Moreover, this paper examines the allocation of human capital and what types of influence it exerts.

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Keywords: Technology adoption; Human capital; Environmental policy

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