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Measuring the role of renewable energy power, economic policy uncertainty, and patent in China's carbon neutrality goals.**Riazullah Shinwari***Central South University, China*

Carbon neutrality is a key component of the sustainable industrial, low carbon energy, and ecotechnological revolutions, which transform society, the environment, and the economy. As such, this study aims to investigate the carbon neutrality targets of China by probing the environmental impacts of renewable electricity, improving technology, and economic policy uncertainty. Given the predominance of linear and nonlinear approaches in previous research, the present study employs a dynamic auto-regressive distributed lag (DARDL) simulation and a machine learning kernel regulatory least squares (KRLS) approach for the time frame 1980-2021. Long-term results revealed that a positive shift in improving technology and renewable energy electricity alleviates the negative repercussions of CO2 emissions, while uncertainty in economic policy increases carbon emissions. Therefore, it is highly desirable to increase investment in renewable electricity technologies and reduce economic policy uncertainty for achieving carbon neutrality and significant long-term CO2 emission reduction targets in China.

Biography

Riazullah Shinwari experience is primarily in Energy and Environmental Economics. Since October 2016, I have been performing assignments in several roles such as Advisor to the DABS CEO, International Environmental Advisor to the National Environmental Protection Agency (NEPA), Head of Afghanistan Economic Forum at High Economic Council (HEC), Country Manager with Harekt Power (Turkey Company), Senior Renewable Energy Advisor with Chinese Company, and Economic Risk Analysis Manager in China. During my Four-year professional career, I had the opportunity to gain extensive experience in feasibility studies, Research Studies, project planning, implementation, and reviews of energy projects from a business and environmental perspective.