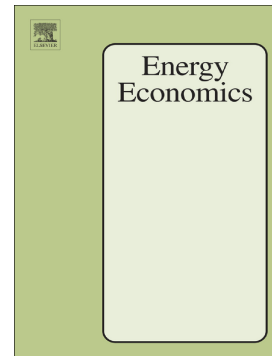


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## Assessing the development of China's new energy industry

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**Abstract:** As the world's largest carbon dioxide (CO<sub>2</sub>) emitter, China is facing increasing international pressure to reduce emissions. Actively developing new energy has become a fundamental means to solve the dilemma between environmental pollution and energy consumption growth. Thus, more scholars have conducted a wide range of studies on the new energy industry. However, most of the existing studies use traditional linear models to investigate the relationships between new energy industry and its driving forces, ignoring the objective reality that there are many nonlinear relationships in economic variables. In order to overcome the shortcomings of existing research, this paper uses a data-driven nonparametric additive regression model to study the new energy industry. The results show that the nonlinear effect of agricultural development shows an inverted “U-shaped” pattern due to the changes in crop acreage at different stages of development. The nonlinear

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