Investigating Citizens' Perceptions and Attitudes toward China's National Determined Contribution's Energy Restructuring Plan in Linfen City

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Abstract : As a responsible nation, China has outlined its Nationally Determined Contributions (NDCs) of reaching peak carbon by 2030 and carbon neutrality by 2060. Peak and carbon neutrality are tough goals to achieve, and China must undertake a shift to green energy. In contrast, China's existing energy consumption structure is unsustainable and heavily dependent on coal supplies. China must revise its energy mix planning in order to strengthen energy security and satisfy the requirement for low-carbon energy generation to mitigate climate change. Shanxi Province is one of China's most important coal-producing regions, and Linfen is one of the province's key economic towns. However, Shanxi Province's economic development is severely hampered by the region's high levels of pollution and energy consumption. The purpose of this study is to investigate Linfen citizens' perceptions and attitudes toward China's NDC's energy restructuring plan through questionnaires. The majority of respondents were aware of China's NDCs, as indicated by 402 valid responses to an online questionnaire. Furthermore, respondents' perceptions and attitudes toward renewable energy initiatives are growing. To ensure that the results were dependable and consistent, reliability and validity were examined. According to the findings, the majority of Linfen's citizens believe that renewable energy projects such as solar and wind, which are consistent with China's NDCs, may improve their quality of life, public health, and the nation's economy.

Keywords : China's NDC, perceptions, attitudes, Linfen, energy restructuring

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