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RESEARCH ON REGIONAL ECOLOGICAL COMPENSATION IN CHINA: A FOCUS ON CARBON EQUALITY

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Abstract

According to the purpose of balancing development between regional economy and carbon emissions, a rational carbon ecological compensation strategy may strongly promote the process of carbon reduction and sink increase. On this premise, this study designs a carbon ecological compensation scheme based on the principle of relative carbon equality and combines data from 2000-2019 in China to draw some favorable conclusions. The results show that: as far as the distribution of carbon sources and sinks is concerned, the overall regional distribution in China presents an inequality; in the near future, the relative balance strategy is more operable and reasonable than the absolute balance strategy; the relative balance strategy gives more compensation to regions with low carbon share and high carbon sink share, which is conducive to alleviating inter-regional inequality, promoting inter-regional coordinated development, and ultimately promoting the achievement of carbon neutrality goals.

Key words: carbon equality, carbon source, carbon sink, ecological compensation, regional analysis

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