

Review of: "Research on the uncertainty of low-carbon environmental governance system and its impact on the dual goals of carbon emission reduction"

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Potential competing interests: No potential competing interests to declare.

1. Although this paper discusses a relatively interesting topic, the introduction does not fully demonstrate the basis for the topic selection. For example, from a theoretical and practical point of view, why this paper needs to discuss the impact of the uncertainty of the low-carbon environmental governance system on the dual goals of carbon emission reduction. At the same time, the logic of the introduction is rather confusing, especially the level of the second paragraph is not clear.

2. The Literature Review and Mechanism Analysis lack logic. For example, why is it necessary to conduct a literature review from these four aspects? How does the academic circle study the relationship between the low-carbon environmental governance system and carbon emission reduction? Moreover, there is also a lack of review of the literature on the relationship between various aspects and carbon emission reduction, such as whether low-carbon technological innovation promotes or inhibits carbon emission reduction? What is its mechanism of influence?

3. What is the connotation of uncertainty of the environmental governance system? This is the most important question that must be answered, and it also involves the answers to questions 1 and 2. When studying the uncertainty of the low-carbon environmental governance system, this paper needs to analyze the connotation of environmental governance, low-carbon environmental governance, and low-carbon environmental governance system. Due to the unclear interpretation of the uncertainty connotation of the low-carbon environmental governance system, this makes the uncertainty evaluation of regional low-carbon environmental governance lack of scientificity, and the evaluation index system cannot reflect the uncertainty well.

4. In the empirical analysis, the analysis of the influencing mechanism of explanatory variables is relatively lacking, which makes some research results and research conclusions lack sufficient basis. E.g. Compared with the impact on total carbon emissions, the impact of increased uncertainty in a low-carbon governance environment on carbon emission intensity is relatively stable.

5. Policy recommendations need to be developed around research questions and research conclusions, highlighting how to solve the uncertainty of the low-carbon environmental governance system and its impact on carbon emissions.

To sum up, It is recommended that the authors make further revisions.

