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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Thank you for the opportunity to review this manuscript. The use of the proposed framework is relevant and provide for comparison of insights related to low carbon environmental governance practices and its effects and the use of techniques seem to give promise of new insights related to low carbon environmental . Having said that, there are notable concerns to the work presented in this manuscript, which I will turn in to the following:

1. Although the manuscript may be a bit over-length, the language in the manuscript is properly used for reading and comprehending but lots many repetitions of the same discussions are included for describing the method .

2. The introduction states what we should know more about, but it does not explicitly position this question in what is already known (and not known) about this question. Correspondingly, the backend of the paper is weak in positioning the closed loop supply chain practices and performance contributions in terms of lead-acid battery recycler integration . Theoretical discussions in section 2 are started with various steps discussions however it could have been the shifted to Annexure section . Section 2 not synced in a way to show the research methods and theory contribution .Authors may see the followings study's theoretical perspectives discussions given in the https://doi.org/10.1007/s11276-019-02246-6

https://doi.org/10.1007/s13243-018-0053-y

https://doi.org/10.1007/s10100-020-00673-x

https://doi.org/10.1016/j.jclepro.2020.125268

https://doi.org/10.1007/s10479-021-04454-w

https://doi.org/10.1016/j.jclepro.2021.129154

https://link.springer.com/article/10.1007/s10479-020-03877-1

3. Objectives of the study are to be included . Research gap could be clearly identified from the represented contents based on the specific objectives. Anyway different aspects have to be fixed, also about framing the contribution as per the current literature needs to be highlighted related to advancements.

4. The description of the method could have been more clearer. Figure related to method based analysis could be added

to have the better understanding. Other figures and tables show the content of the conclusion clearly.

5. The manuscript should improve its positioning in what is already known from previous studies - and clarifying more clearly what is not known, hence clarifying its contribution to the established knowledge base. How has this paper advanced our understanding on the previous work on the existing methods and theories? The authors might want to think about the unique aspects considered in the paper.

6. The manuscript has the potential to do so, but more work is needed to flesh out and make justification for this knowledge. In this context, it is also important to improve the analytical and theoretical framework for what this research and its results can bring to the society.

7. This paper can support policy makers in the assessment of the measurements and to propose various strategies accordingly. Besides that, theoretical implications should be better clarified.

8. Results are limited to discussing own findings. I would highly recommend that the results of this study be compared with those of the other authors.

8. Theoretical implications, Practical implications, and Limitations of this study need to be written. Moreover, no clear directions for future research are indicated.

9. Proofreading is also suggested in order to increase readability and clearness of the paper.

Hope the authors will find the comments above useful for further improving the paper.