

Review of: "Raising Adaptive Capacity to Climate Change in Energy and Food Sectors of Egypt"

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Potential competing interests: No potential competing interests to declare.

General Comments:

1. The manuscript needs improvements in the presentation of the abstract and should avoid using references.
2. The abstract should use the present tense with only one paragraph.
3. In the introduction, the authors should provide a strong motivation for the paper and the obtained results. In addition, they should discuss the main contributions of their work in detail after the motivation part. The contribution of the manuscript should be in the present tense.
4. The overall structure of the paper should be reconsidered for major modifications.
5. The Methodology section is too poor and should contain more details about the work done.
6. The explanations of the data and models used should be expanded and clarified.
7. Discussion of uncertainty around projections and model assumptions is limited.
8. The Conclusion is too poor and needs more clarification.
9. Further punctuation marks should be checked throughout the paper, especially after the equations and at the end of the statements.
10. The list of references is out of date. Please update the list of references with the state of the art in the introduction.
11. The English could be improved in terms of grammar and clarity in places.

and regarding the text sections:

Abstract:

The abstract provides a concise overview of the study's focus on climate change impacts on the food and energy sectors in Egypt. It outlines the potential disruptions to food security and the exponential growth of energy demand in the country. Additionally, it highlights the inadequacy of climate observation programs and the need for more accurate assessments. The abstract effectively sets the stage for the subsequent discussion *but lacks specificity regarding the methodologies used and key findings*.

Introduction:

The introduction offers a comprehensive rationale for the study, emphasizing the significance of climate data integration for decision-making and adaptation strategies in Egypt. It effectively positions the research within the context of global climate change concerns and outlines the aim and objectives of the study. *However, it could benefit from a clearer articulation of the novelty and contribution of the research to the existing literature.*

Results and Discussion:

The results and discussion section presents a detailed analysis of climate-based issues, focusing on greenhouse gas emissions, agricultural impacts, and energy consumption patterns. The inclusion of empirical data and models enhances the credibility of the findings. *However, there is a need for better organization and clarity in presenting the results, as the section appears cluttered with numerous sub-sections and figures. Additionally, the discussion could be strengthened by providing more explicit linkages between the observed impacts and potential adaptation/mitigation strategies.*

Recommendations and Conclusions:

The recommendations and conclusions section offers valuable insights into the potential impacts of climate change on Egypt's environment, agriculture, and energy sectors. The emphasis on the importance of long-term climate monitoring and adaptation measures is well-justified. *However, the section lacks specificity in outlining actionable recommendations for policymakers and stakeholders. Additionally, the conclusions could be strengthened by summarizing the key findings and their implications more succinctly.*

Overall Assessment:

The article provides a comprehensive examination of the impacts of climate change on food and energy sectors in Egypt. It effectively integrates diverse sources of data and employs relevant models to analyze the complex interactions between climate variables and sectoral outcomes. *However, the presentation of results and discussion could be improved for better clarity and coherence. Additionally, the recommendations and conclusions could be more focused and actionable. Overall, the study makes a valuable contribution to the literature on climate change adaptation in Egypt but requires some revisions to enhance its readability and impact.*