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| Journal Name: | International Journal of Environment and Climate Change |
| Manuscript Number: | Ms\_IJECC\_136927 |
| Title of the Manuscript: | Impact of Climate Change on Agriculture in Rajasthan: Challenges, Adaptation Strategies and the Role of Solar Parks |
| Type of the Article | Review |

PART 1: Comments

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|  | Reviewer’s comment  Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review. | Author’s Feedback (It is mandatory that authors should write his/her  feedback here) |
| Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part. | The manuscript titled "Impact of Climate Change on Agriculture in Rajasthan: Challenges, Adaptation Strategies and the Role of Solar Parks" presents a broad overview of a highly relevant topic |  |
| Is the title of the article suitable?  (If not please suggest an alternative title) | No, more precision is required |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | Revisions needed |  |
| Is the manuscript scientifically, correct? Please write here. | Revisions needed |  |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | Revisions needed |  |

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| Is the language/English quality of the article suitable for scholarly communications? | Revisions needed |  |
| Optional/General comments | General Comment:  The manuscript titled "Impact of Climate Change on Agriculture in Rajasthan: Challenges, Adaptation Strategies and the Role of Solar Parks" presents a broad overview of a highly relevant topic. However, it lacks the depth, scientific rigor and originality required for acceptance in a peer review. The paper is more descriptive than analytical, with general statements unsupported by empirical data, model-based projections, or a substantive methodological framework. In its current form, the manuscript resembles a review article written at a popular science level, rather than a scholarly contribution that adds new insights or evidence to the body of knowledge on climate change and agriculture.  Comments:  1. The paper fails to describe a clear methodology.  2. While the topic suggests regional specificity (Rajasthan), the manuscript lacks concrete data on climatic trends (e.g., rainfall anomalies, temperature deviations), crop yield statistics, or water resource stress patterns over time.  3. There is no spatial or temporal analysis to support claims about agricultural impacts or the performance of adaptation strategies.  4. Many of the statements made (e.g., "climate change reduces productivity" or "solar parks offer opportunities") are well-known and not substantiated by case studies, specific examples, or referenced data from Rajasthan or comparable agro-climatic zones.  5. The role of solar parks in affecting land use, microclimate, or agricultural displacement is mentioned but not critically examined. Empirical evidence on their net benefit or cost to the agrarian ecosystem is absent.  6. There is very limited or no discussion of agrivoltaics, land degradation issues, water table implications, or socio-economic displacement, which are critical aspects of solar park development in rural India.  7. Effective climate adaptation involves farmers, local governance, water user associations, and renewable energy developers. The paper fails to examine stakeholder roles, barriers to adoption, or policy conflicts (e.g., land leasing to solar developers vs. food security).  Recommendation:  The paper requires substantial revision and reorientation. To be reconsidered, the authors must:   Define clear research objectives and methodology.   Include region-specific data and critical analysis.   Deepen the discussion on solar parks using case studies.   Avoid generic assertions and provide evidence-based conclusions.  Until then, the manuscript is not suitable for publication in its current form |  |

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PART 2:

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|  | Reviewer’s comment | Author’s Feedback (It is mandatory that authors should write his/her  feedback here) |
| Are there ethical issues in this manuscript? |  |  |

**Reviewer details:**

**Aditya, India**