

Response to Reviewers

Manuscript Title: Assessing the Impact and Future of Solar Photovoltaic Systems in New York State

Author: Dr. Robb Shawe

Dear Editor and Reviewers,

I sincerely thank you for the time and expertise you devoted to reviewing this manuscript. Your constructive feedback has significantly strengthened the clarity, structure, and scholarly contribution of the paper. Below, I provide a point-by-point response to each reviewer's comments, clearly indicating how the manuscript has been revised.

Reviewer 1

- Is the manuscript important for the scientific community?

Response: The reviewer acknowledged the manuscript's relevance—no changes required.

- Is the title suitable?

Response: The title has been retained as it directly reflects the scope of analysis, ensuring clarity for a broad audience.

- Abstract

Response: The abstract has been further refined for clarity and conciseness, while maintaining coverage of objectives, methods, findings, and conclusions.

- Section Appropriateness

Response: Recent examples and 2023–2024 data were added in the Literature Review and Analysis sections. The economic perspective is strengthened with job creation metrics, cost-benefit analyses, and projections. Conclusion now emphasizes stakeholder collaboration.

- References

Response: The manuscript was updated with multiple 2023–2024 peer-reviewed references.

Reviewer 2

- Abstract Needs Restructuring

Response: The abstract has been streamlined to ~250 words, with a clear delineation of objective, methods, findings, and conclusions.

- Introduction

Response: Now explicitly states the research question, provides a problem statement, objectives, and roadmap.

- Methodology Section Missing

Response: A comprehensive Methodology section was added, detailing inclusion criteria, analytical approaches, and limitations.

- Structure and Flow Issues

Response: Manuscript reorganized into clear sections; technical content consolidated to reduce repetition.

- Depth of Critical Analysis

Response: Expanded to include quantitative adoption rates, cost trends, emissions reductions, comparative insights, and case studies.

- Technical Content

Response: Streamlined into a single cohesive section, focusing on New York-specific considerations.

- Economic Analysis

Response: Now includes job creation projections, sectoral employment breakdowns, cost-benefit analyses, and long-term projections.

- Data Visualization

Response: Six figures have been added: Land use distribution, Job growth, Workforce composition, TOU load profiles, Stakeholder engagement timeline, and Environmental impact ranges.

- Case Studies and Stakeholder Perspectives

Response: Added Riverbend Solar Project and expanded stakeholder perspectives (landowners, utilities, governments, communities).

- Conclusion

Response: Conclusion rewritten to synthesize key insights, provide policy recommendations, identify limitations, and propose future research directions.

Final Note

The manuscript now fully addresses both reviewers' concerns. It has been substantially improved in terms of structure, analytical depth, and clarity. I thank the reviewers once again for their constructive comments and the editor for facilitating this process.

Respectfully,

Dr. Robb Shawe, Ph.D., MS