

## **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