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Abstract

*The abstract should be a single paragraph of no more than 200 words. It must provide a clear and concise summary of the study without references or unexplained abbreviations. Authors are encouraged to structure the abstract in a logical flow that covers the following elements: **Background** (context of the problem and purpose of the study), **Methods** (key approaches and data used), **Results** (main findings), and **Conclusion** (significance of the outcomes). The abstract should accurately represent the content of the article and avoid including results or claims that are not substantiated in the main text.*

Keywords: Provide three to ten relevant keywords separated by semicolons (e.g., climate change; vegetation stress; remote sensing).

1. Introduction

The introduction should provide a clear background to the study, situating the research problem within a broader environmental and scientific context. Authors are expected to highlight the importance of the study, define its objectives, and state its contribution to advancing knowledge in the field. A critical review of relevant literature should be included to establish the current state of research, identify gaps, and justify the need for the study. Where appropriate, authors should reference conflicting findings or diverging perspectives in previous studies.

The section should conclude with a precise statement of the research aims or hypotheses. To ensure accessibility, the introduction should be written in a manner that is understandable to readers from related disciplines. All references must follow **APA style** guidelines, with in-text citations formatted as author–date (e.g., *Smith, 2020*; *Adeyemi & Musa, 2021*), and listed in full in the reference list at the end of the manuscript.

2. Materials and Methods

This section should provide sufficient detail to allow replication of the study. Authors must describe the study area, datasets, instruments, materials, and analytical procedures in a clear and systematic manner. Methods should be presented in chronological order or grouped logically by type of analysis.

For established methods, provide appropriate references (e.g., *Johnson, 2019*). New or modified methods should be described in detail to ensure reproducibility. Where relevant, authors should specify the software, programming languages, or statistical packages used, including version numbers (e.g., R 4.3.2; ArcGIS Pro 3.2).

If the study involves humans, animals, or sensitive data, ethical approval details must be included, citing the approving authority and reference number. For ecological or environmental studies requiring permits, state the issuing authority.

Authors should also disclose any restrictions on data or material availability. Large datasets deposited in public repositories must include the repository name and accession numbers. If generative artificial intelligence (e.g., ChatGPT, Stable Diffusion) was used beyond grammar or formatting edits, its role must be explicitly acknowledged in this section.

All procedures should be written in past tense, precise, and objective to maintain scientific clarity.

3. Results

This section may be divided by subheadings. It should provide a concise and precise description of the experimental results, their interpretation, as well as the experimental conclusions that can be drawn.

- 3.1. Subsection
- 3.1.1. Subsubsection

3.2. Figures, Tables and Schemes

All figures and tables must be cited in the main text in sequential order (e.g., *Figure 1, Table 1*). Each figure or table should include a clear, descriptive caption placed directly below (for figures) or above (for tables). Captions should explain the content fully without requiring reference to the main text.

If a figure contains multiple panels, each should be labeled (e.g., *a, b, c*) and described clearly in the caption (e.g., “(a) Map of study area; (b) Seasonal variation of NDVI”). Figures should be inserted in the main text close to their first citation to maintain readability.

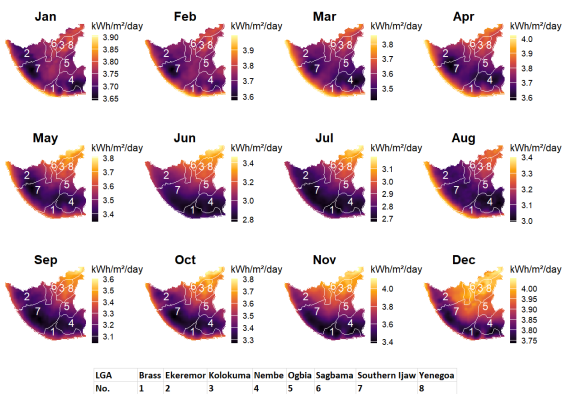


Figure 1. Monthly variation of solar radiation (kWh/m²/day) across the eight Local Government Areas (LGAs) of Bayelsa State, Nigeria (Brass, Ekeremor, Kolokuma, Nembe, Ogbia, Sagbama, Southern Ijaw, and Yenegoa). Each map panel represents the spatial distribution for a given month, illustrating seasonal patterns and local differences in solar energy availability.

Table 1. This is a table. Tables should be placed in the main text near to the first time they are cited.

Title 1	Title 2	Title 3
entry 1	data	data
entry 2	data	data ¹

¹ Tables may have a footer.

3.3. Formatting of Mathematical Components

Equations should be presented clearly, numbered consecutively, and cited in the text using their assigned number (e.g., Equation 1). Equations should be punctuated as part of the running text rather than treated as standalone paragraphs.

Example:

$$a = 7 \quad (1)$$

The text following an equation should continue on the same line or in the same paragraph.

This is example 2 of an equation:

$$a = b + c + d \dots\dots\dots + z \quad (2)$$

4. Discussion

This section should interpret the results in relation to the study objectives and existing literature. Authors are expected to explain how the findings support, contrast with, or extend previous research and to address the implications of the results within a broader environmental and scientific context. Limitations of the study should be acknowledged where relevant. Future research directions may also be suggested to guide subsequent studies.

5. Conclusions

The conclusion should provide a clear and concise summary of the main findings, emphasizing their significance and contribution to the field. Authors should avoid repeating detailed results and instead highlight the key outcomes, practical implications, and relevance of the study. Where appropriate, recommendations for policy, practice, or further research may be included.

6. Patents

If the research has resulted in a patent application or granted patent, the details should be provided in this section. Please include the patent title, applicant(s), patent number (if available), and relevant filing or publication dates. If no patents are associated with the work, this section may be omitted.

Supplementary Materials: Authors may provide supplementary files that support the findings of the manuscript but are not essential to its main text. These may include additional figures, tables, datasets, videos, or protocols. Supplementary files should be clearly labeled (e.g., Figure S1, Table S1, Dataset S1, Video S1) and cited appropriately in the main text.

Examples of acceptable statements include:

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An example format is as follows:

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If no new data were created, or if data cannot be shared due to privacy, confidentiality, or ethical restrictions, authors must still include a statement explaining the reason.

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Abbreviations

The following abbreviations are used in this manuscript:

GEE	Google Earth Engine
GIS	Geographic Information System
NDVI	Normalized Difference Vegetation Index
LULC	Land Use/Land Cover
HJE	Hensard Journal of Environment
GEE	Google Earth Engine

Appendix

Appendices are optional and should be used to provide supporting details that would otherwise interrupt the flow of the main text. Examples include:

- Additional descriptions of experimental methods.
- Figures showing replicates or supplementary data.
- Extended mathematical proofs or derivations.

If included, appendices must be cited in the main text. Each appendix should be labeled sequentially (Appendix A, Appendix B, etc.). Figures, tables, and equations within appendices should also be labeled accordingly, for example: *Figure A1*, *Table A1*, or *Equation A1*.

Table A1. This is a table caption.

Title 1	Title 2	Title 3
entry 1	data	data
entry 2	data	data

References

All references must follow **APA 7th edition style**. In-text citations should use the **author–date format**, for example: (Smith, 2020), (Adeyemi & Musa, 2021), or (Okafor, 2018; Johnson, 2019). When directly quoting, include page numbers (e.g., Brown, 2022, p. 15). Multiple citations should be listed chronologically and separated by semicolons.

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