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| Journal Name: | Journal of Engineering Research and Reports |
| Manuscript Number: | Ms_JERR_113573 |
| Title of the Manuscript: | A Dual Axis IoT-Based Off-Grid Solar Tracking System with Wheatstone Bridge for Efficient Energy Harvesting and Management |
| Type of the Article | Original Research Article |

PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| <p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <p>This article describes the assembly of a dual-axis IoT-based off-grid solar tracking system for efficient energy harvesting and management. The percentage improvement in voltage for the dual-axis setup and the fixed PV setup across all times of the day is compared. The dual-axis setup provides a good percentage improvement in voltage over the fixed PV setup. Energy management minimizes energy costs, waste, and environmental effects. This energy management results in an increase in financial capital, environmental value, and human comfort.</p> <p>Yes, the article title is suitable.</p> <p>Yes, it is comprehensive</p> <p>Section 3 repetition has to be fixed. i.e., Section 3 has two titles. a) design and simulation; and b) implementation and results.</p> <p>Yes, the manuscript is scientifically correct.</p> <p>There are enough references provided. However, recent references must be used.</p> <p>Refer optional/general comments.</p> | |
| <p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p> | <p>Yes, the article's English quality is appropriate for scholarly communications.</p> | |
| <p>Optional/General comments</p> | <p>The article has to strengthen the design aspects of the solar tracking system even more, and the clarity of the diagrams can be improved further. Also, in tables 1 and 2, it is 12 noon and not 12 pm.</p> | |

PART 2:

| | Reviewer's comment | Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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