

## Review Form 1.6

Journal Name:	<a href="#">Journal of Energy Research and Reviews</a>
Manuscript Number:	Ms_JENRR_73777
Title of the Manuscript:	Optimization of hybrid wind and solar power generator at Izazi, Tanzania
Type of the Article	Original Research Article

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

<http://peerreviewcentral.com/page/manuscript-withdrawal-policy>

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**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)
<b>Compulsory</b> REVISION comments	<ul style="list-style-type: none"> <li>The system nominal voltage is determined to be 48V. However, two panels with each 42V rating are selected to be connected in parallel. The authors should explain how this can be possible.</li> <li>The average load demand of the village should be presented in figure. Also, it should be correctly predicted at least for the next five years.</li> <li>The generated power share of the solar and the wind are determined without applying any optimization techniques. Hence, where is the application of the HOMER software in this study? The author should first use the HOMER software to determine the optimal rating of solar and wind, and appropriately select the size/rating of the required devices accordingly.</li> <li>The feasibility study is not logical since the author didn't compare the collected data with international standards such as minimum solar irradiance and cut-in speed.</li> <li>At what distance above the ground, the wind speed is recorded and what mechanism they use to know the wind speed at the desired height? The authors should explain this?</li> <li>The authors should explain why they don't use modern optimization techniques rather than HOMER software?</li> </ul>	
<b>Minor</b> REVISION comments	<ul style="list-style-type: none"> <li>Equations should be numbered in the order they are presented in the document (like Eq (1), Eq (2), etc.,).</li> <li>The authors should proof read the manuscript before publication and fix some editorial problems (for instance: sizing is the process of determining the cheapest combination of array size and storage capacity hat).</li> <li>The collected data from Iringa Meteorological Agency must be presented in the appendix part otherwise hard to accept the feasibility of solar and wind at the selected viliage.</li> <li>Include a list of abbreviations for all the symbols used in the manuscript</li> </ul>	
<b>Optional/General</b> comments	I recommend to accept the article if the above mentioned comments are properly addressed.	

**PART 2:**

	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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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