

Review Form 1.6

Journal Name:	Journal of Energy Research and Reviews
Manuscript Number:	Ms_JENRR_87683
Title of the Manuscript:	DESIGN, SIZING AND OPTIMIZATION OF A SOLAR- WIND HYBRID POWER SYSTEM
Type of the 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:

(<https://www.journaljenrr.com/index.php/JENRR/editorial-policy>)

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)
Compulsory REVISION comments	<p>Abstract</p> <ol style="list-style-type: none"> Just stating the name of the location will do. No need to include coordinates in the abstract. hybrid optimized model for electric renewable (HOMER) – (The first letter should be a capital letter for the whole article) <p>Introduction The work included detailed calculation using the life cycle cost method for identifying all possible combinations. The combination of eleven solar panels, one wind turbine and nine batteries was identified as the optimal combination. (This description doesn't suite authors work. Looks like an copy pasted article as there is no continuity in the writing)</p> <p>MATERIALS AND METHOD The offload voltage (no load) on the inverter had fluctuations within the range of 23.5 to 23.8 V when fully charged. Two batteries of 12 V each were connected in parallel to generate a 23.8 V effect. (Parallel connection doesn't increase the voltage whereas it would increase the Ah of the storage battery. I think that the author want to utilize the battery systems of 12 V/200Ah based on the description from Abstract but the interver works on the 24 volt system. There is a serious technical issue had to addressed here in the article) Therefore, for a 425 W, 12 V battery, the number of batteries needed was $744/425 = 1.75$. (The outcome discharge would be 744 Wh. It is unclear how the author had ended up with the 425 W for the battery. Go through with equation 10-12. Furthermore the in all the calculations the efficiency has not taken into consideration It is unclear on how the author intends to utilize the hybrid wind energy as it only produces a small fraction of energy and the main application of power is during daytime where it can be supplied by the solar energy.</p>	
Minor REVISION comments		
Optional/General comments		

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

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