

## Review Form 1.7

Journal Name:	<b>Physical Science International Journal</b>
Manuscript Number:	<b>Ms_PSIJ_96048</b>
Title of the Manuscript:	<b>Diurnal Analysis of the Performance of Photovoltaic Systems under the Guinea Savannah Atmosphere in Ogoja, Cross Rivers State, Nigeria</b>
Type of the Article	<b>Original Research Article</b>

### **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.journalpsij.com/index.php/PSIJ/editorial-policy> )

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b> <b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p>Yes</p> <p>Yes</p> <p>It is comprehensive</p> <p>Yes, they are appropriate</p> <p>Yes</p> <p>Yes, they are sufficient. However, more references could be obtained in the Nigerian Journal of Solar Energy and the Nigerian Journal of Renewable Energy.</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	Yes	
<p><b>Optional/General</b> comments</p>	<p>Accept manuscript for publication.</p> <p>1. Good work on the diurnal analysis of the performance of Photovoltaic Systems under the Guinea Savanah Atmosphere. The study is for four months which could be said to be too short for such performance measurement of a PV system under a given climatic condition. A minimum of one year data is recommended for future study.</p> <p>2. However, the work gives a fresh look at the performance of a solar photovoltaic system under a given climatic condition in Ogoja, Cross River State, Nigeria, at an altitude of 85m.</p> <p>3. The factors considered are the effects of solar power, relative humidity and temperature on the performance of the photovoltaic modules.</p> <p>4. The author shows that the highest level of efficiency is attained at 14:30 instead of 12:00 when the highest level of solar power is observed. This shows the influence of ambient temperature and the panel temperature on current fluctuations. It also shows that when panel temperature rises above maximum temperature, the performance of the photovoltaic systems is hindered. Hindered by dark currents? This may call for system's cooling.</p> <p>5. In order to actually see the performance under high temperature, the author is advised to look at the performance around the month of march when the climate is warmest, or when the temperature is higher.</p> <p>6. Overall: Good work.</p>	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><u>(If yes, Kindly please write down the ethical issues here in details)</u></p>	

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**Reviewer Details:**

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