



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	2014_AJEA_14692
Title of the Manuscript:	An outline for Economical and Technical Analysis of Photovoltaic Cells for Agricultural Uses: A case study on Texas weather conditions
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:

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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)
Compulsory REVISION comments	The authors set out on a worthwhile endeavour to compare two different PV panels in a given location! However, there are a number of deficiencies which have been highlighted in the article! Language and grammar is of concern – a professional ENGLISH language editor is recommended! Then the authors state under the introduction that the performances of the two panels are clear – THEN why undertake this study? What were the exact specs of the panels? Why was 35 degrees used for the tilt angle? Why use the CMP22 and the Omega 320? Why use a constant resistor when later reference is made to the maximum output power? Why is a MPPT not used? Figure 1b does not correlate to the discussion under 3.1 What type of statistic was used for the R^2 value? How were the dots obtained for Figure 2? What does literature say about the decrease in efficiency when the solar radiation increases? From where is the clearness index derived? Why only 8 references as there has been a wealth of literature published on this topic!	The principal aim of this paper was to The specifications known previously for us were added. Other specifications were calculated by us and are shown in the results. The angle was selected because that was the original angle of the commercial Si panels. The CMP22 pyranometer and the Omega 320 data logger were instruments that we have previously in our lab. We did not use the MPPT because the short term and budget of the project The constant resistor was selected after we selected the best resistance The clearness index used came from previous results The figure 2 dots were obtained changing the resistance of the circuit. References related with the decrease in the efficiency and the increment in solar radiation were added The clearness index is a relation between the theoretical radiation and the actual radiation



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		More references were added
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		