



SDI FINAL EVALUATION FORM 1.1

PART 1:

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

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
The paper deals with a physical and economical study of photovoltaic modules which supply electrical energy for agricultural applications. Measurements and calculations were carried out in College Station, Texas. Experimental results are very interesting, namely the comparison of the efficiencies of Si and GaAs modules. The paper has been improved by taking into consideration most of the required corrections. I regret that the paper doesn't focus enough on a concise case study in agriculture. Sincerely hope that the conclusions of the economic evaluation will be deepened in a next paper. The two following points seem important to me and I invite the authors to add them in their paper: - No temperature is mentioned because the latter was not recorded. However, the authors could search them on meteorological websites where recorded values are displayed. The temperatures of the days when measurements were carried out could be indicated in the paper. - The evolution of the short-circuit intensity according to solar irradiance would be really worth depicting. Please, check the entire manuscript very carefully and correct the mistakes: - line 52: technical and economic evaluation - line 78-79: unit of surface is m² - line 131: "where" shouldn't be written with a capital letter, (Watts) can be written (W) - line 133: P_m is the maximum power output. "The" can be removed. - lines 145-146: please insert a space between value and unit (1000 kW/month, 300 kWh/year) - line 146: the efficiency of the systems - line 189: ϕ is the latitude and δ is the declination angle. It is not an equation, "=" should be removed. - line 196: the circuit of the solar panels - line 303: additional data are considered	The temperatures were added using the reviewer's comment. The units of line 78-79 are in meters because describe the wide and length of the panels. Line 131 Watts was corrected to Watt's Line 145-146 Space was added Line 189 modified Line 196 and line 303 were modified