



SDI Review Form 1.6

PART 1:

Journal Name:	<u>Physical Review & Research International</u>
Manuscript Number:	2013 PRRI 4296
Title of the Manuscript:	Design and Optimization of a Wind System Using a Genetic Algorithm
Type of the Article	Research paper

General guideline for Peer Review process is available in this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: 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)
<u>Compulsory</u> REVISION comments	<p>A very interesting work has been developed. The methodology is correct, but there are some questions which should be clarified by the authors:</p> <p>Section 2.2.2: The model to estimate the lifetime of the batteries should be added.</p> <p>Section 2.2.3: define P_w. The inverter efficiency depends on the output power, in this work a fixed value has taken into account, however, this is an approximation and it should be explained.</p> <p>Add references to data of table 4.</p> <p>Fig. 9 and 10 should be explained better. In each figure there are 100 individuals, so these figures are for one generation of the genetic algorithm, but, what number of generation? Last generation? Explain, please.</p> <p>Fig. 11 and 12 should also be explained better: Fig. 12 a) is GER vs LPSP of the last generation?</p> <p>Table 8 includes the 10 best combinations taking into account the global desirability? Please, clarify.</p>	



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<p><u>Minor</u> REVISION comments</p>	<p>Line 142: “The battery performance depends...”. There η_{bat} should be defined. Equation 12: define Closs Equation 16: define Emp and Eb,min Equation 19: define vr Fig. 9, a), left axis should be “economic shutter” instead of “indicateur”</p>	
<p><u>Optional/General</u> comments</p>		

Note: Anonymous Reviewer