Reviewer #1: Interesting paper.  
  
Good use of adequate language, just watch out for singular and plural from time to time. I suggest you have the paper checked by a native Speaker as some of the sentence structures and grammar may be improved.  
  
To my understanding PTTL (Parabolic Trough Test Loop) is the name of a different test facility at PSA, one that has never actually been used yet because there is no collector field so far. Isn't the facility in question called "HTF Loop"? Of course it is a Parabolic Trough Test Loop but as I said I think this name refers to a different facility.

AD: The facility referred in the paper is the PTTL , 🡪change everything HTF loop  
  
temperature transmittance sensors does not refer to the measurement principle used, I think they are PT100

AD: Check with Javier 🡪 Javier will check this

please include the uncertainty of temperature measurements and Simulation results when comparing them in the Validation process

AD: I can take care of this one. Any idea how much this value is?

to my understanding the description of the simulation tool should stick to ist functionalities rather than saying what appears when clicking Buttons

AD: I guess this is for Javier

Please be more explicit in saying what this validated tool will be useful for in practice in future  
  
AD: I guess this is for Javier  
  
  
Reviewer #2: The authors did a very significant and novel study in this article. Is it possible to add the solar intensity that the study based on in the graphs and calculations to make an analysis for the relation between the weather at the study area and the efficiency of the parabolic through?

AD: The solar intensity is plotted in figures 7 – 8 and 9 on the y2 axis. It is normalized and the value versus which is normalized is reported in the paper.