

Review of: "Technical and Financial Viability of a 1 MW CSP Power Plant with Organic Rankine Module: Case Study for a Northeastern Brazilian City"

Rero Rubinger¹

¹ Federal University of Itajubá

Potential competing interests: No potential competing interests to declare.

The manuscript entitled "Technical and Financial Viability of a 1 MW CSP Power Plant with Organic Rankine Module: Case Study for a Northeastern Brazilian City" is a simulation study of a concentrated solar system coupled with a 1MW organic rankine cycle generator and its yearly operation considering solar incidence at the fortaleza city in Brazil. The authors explore a richly detailed model considering most relevant heat losses and also economical aspects of the generating plant in comparison with other alternative energy sources. Their analysis is indeed relevant for this field and contains novelty. I however noticed some points that demand reviewing prior to its acceptance with special attention to the need of a thorough English revision by a native speaker. I ask for a care with excessive use of passive voice, proper prepositions, inverted word order that together turns a hard task for the reader to identify ideas. Introduction should give more attention to the technical aspects of the work, since most of it is focused on the economical ones. References goes up to 2021, what about 2022 and 2023? finally, I list some examples of English revision in need:

1. Nomenclature section: "difference between the average temperature of the solar field and the ambient temperature" should be: average temperature gradient between...
2. introduction first sentence: "In today's context, renewable energy sources are playing a bigger role in electricity" change are playing for: play and bigger for: larger
3. 2nd sentence of introduction: "Between 2016 and 2017, the world **has seen an increase** of 178 GW of renewable generation installed capacity, **a raise of 8.82%**." change has seen an increase for: increased. change a raise of 8.82% for: a 8.82% raise
4. 4th sentence of introduction: "Even though the investments in CSP are still low when comparing to wind and photovoltaics, it is **still** one of the most promising technologies to help **in** the transition from..." remove the words still and in after the word help
5. page 6: "Conclusions could be drawn, **like that** CSP investment is more cost-efficient **in** systems" change like that to such as, change in into on.
6. page 7: "The present work utilizes local sunlight data of a Brazilian northeastern city for the calculations, thus reaching results that **should approximate to the** reality of this region" change bold text to: are close to the

