

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

Safa Skouri¹

1 Research and Technology Center of Energy

Potential competing interests: No potential competing interests to declare.

Initially, I found the work titled "Technical and Financial Viability of a 1 MW CSP Power Plant with Organic Rankine Module: Case Study for a Northeastern Brazilian City" interesting, as it combines technical and economic aspects effectively. However, I observed a lack of experimental analysis. Here are my suggestions for improvement:

- Ensure that the nomenclature is alphabetically organized and provides more detailed explanations related to the equations presented in the text.
- 2. Include more relevant references and those contextual to the work.
- 3. Review all nominations; for example, clarify what "LUZ LS-2" and "SEGS" represent.
- 4. Capitalize "10 am" in Section 2.2.
- 5. Specify what " (θz) " represents in the text.
- 6. Include an explanation of the constant "K" for calculating the IAM, as it is only noted in the nomenclature.
- 7. Define the meanings of "W" and "Weff" in the nomenclature for clarity.
- 8. Address the absence of information regarding "ColF rac" in Table 2, which discusses typical optical parameters and correction values for the solar field and HCE efficiencies.
- 9. Connect the numerical analysis to relevant numerical simulations developed in similar works, and follow it with a comparative study to validate the current work.
- 10. Consolidate Subsections from 2.2.1 to Section 2.2 into a single Section 2.2.
- 11. Enhance the explanation of Section 2.4, considering it as the core of the work. Consider adding a table describing different adapted configurations.
- 12. Expand on the results in the paper, especially in terms of system efficiency (Figure 5). Place economic results at the end of the paper for a comprehensive conclusion.