

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

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Potential competing interests: No potential competing interests to declare.

Report of Review

In this paper a 1 MWe parabolic trough concentrating solar power plant using an Organic Rankine Cycle to convert thermal power into electricity was studied. The simulation was year-round and used hourly acquired data. Several different configurations of collectors and size of thermal energy storage were considered.

1. My first remark; is this power of 1 MWe worth investigating and installing since it is very small.
2. Provide the DNI during one year and that of a typical day.
3. A bloc diagram is requested to enable following the next models as explained
4. Provide references to all expressions used. Unless are basic
5. Radiation losses not included, why
6. The same for natural convection loss, why
7. Equation 16 unclear how was derived
8. Based on what the parameters used in design were selected in section 2.4. Considered Configurations.
9. How the most viable configuration was find since there are no optimization technique used

Queries

1. Check some typos example "it still is a field"
2. Check here: investigated by [6] who !!!!! analyses (indicate who)
3. The same remark for "[8] investigates the feasibility "
4. Please check the complete paper for the same errors.

Decision: Major corrections