

### Review Form 3

Journal Name:	<a href="#">Journal of Energy Research and Reviews</a>
Manuscript Number:	Ms_JENRR_127232
Title of the Manuscript:	Geothermal Energy Applications and development in East Africa
Type of the Article	Review Article

#### General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### Important Policies Regarding Peer Review

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#### PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b>	This manuscript addresses a critical topic by exploring geothermal energy development in East Africa, a region with vast untapped potential. It highlights the challenges and opportunities of harnessing geothermal energy, which is essential for achieving sustainable energy goals. However, the manuscript lacks depth in its analysis and fails to provide actionable insights for policymakers and researchers. The study's importance could be significantly enhanced with a more focused and detailed approach.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title is overly general and does not clearly specify the manuscript's focus or unique contribution. <b>Suggested Title:</b> "Barriers and Opportunities in Harnessing Geothermal Energy: A Case Study of East Africa."	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	The abstract provides a basic overview but lacks specificity and structure. It does not clearly outline the methodology, key findings, or implications. <b>Suggested Revisions:</b> <ul style="list-style-type: none"> <li>Highlight the specific barriers and opportunities identified.</li> <li>Clarify the methods used, such as the type of data analyzed.</li> <li>Emphasize the practical recommendations for advancing geothermal energy in East Africa.</li> </ul>	
<b>Are subsections and structure of the manuscript appropriate?</b>	The subsections are present but lack logical flow and coherence. Some sections, such as the geographical overview and results, are overly detailed and redundant. <b>Recommendation:</b> Reorganize the structure into a more systematic format: Introduction, Background, Methodology, Results, Discussion, and Conclusion.	
<b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b>	The manuscript provides valuable insights into geothermal energy in East Africa but is limited by insufficient data analysis and a lack of critical evaluation. Many claims are not supported by robust evidence or in-depth analysis. <b>Recommendation:</b> Incorporate more quantitative data, such as economic feasibility studies or energy output comparisons, to enhance scientific rigor. Additionally, consider conducting a comparative analysis with other regions to contextualize the findings.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> :	The references include several relevant sources but rely heavily on older studies. This undermines the study's credibility and relevance. <b>Recommendation:</b> Include more recent references (post-2019) to capture the latest developments in geothermal energy research, particularly in East Africa.	

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<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Revise for grammatical errors and improve sentence clarity.</li> <li><input type="checkbox"/> Avoid repetitive phrasing and ensure technical terms are clearly defined.</li> <li><input type="checkbox"/> Standardize the formatting of tables and figures for consistency.</li> </ul> <p>The language is inconsistent and occasionally unclear, which detracts from the manuscript's professionalism.</p> <p><b>Recommendation:</b> Consider professional language editing to ensure clarity and consistency.</p>	
<p>Optional/General comments</p>	<p>While the manuscript addresses an important topic, its impact could be significantly improved by incorporating deeper analysis, better organization, and updated references. The study has potential but requires substantial revision to meet the standards of scholarly communication.</p> <p>Detailed Review of the Article "Geothermal Energy Applications and Development in East Africa"</p> <p>1. Title Issues - The title is too general and does not specify a particular aspect of geothermal energy in East Africa. - Repetitive terms like "Applications and Development" could be replaced with more precise alternatives. Suggestion Proposed Title "Exploring Barriers and Opportunities for Geothermal Energy Development in East Africa."</p> <p>2. Abstract Issues - Lacks a structured format (objective, methodology, findings, and recommendations). - Contains vague and unnecessary phrases, such as "complex data from source documents." - Fails to adequately highlight the significance of the study. Suggestion Rewrite the abstract with a focused approach: Objective Identify the potential and challenges of geothermal energy development in East Africa. Methodology Systematic literature review and analysis of existing data. Findings Provide policy solutions to overcome barriers.</p> <p>3. Background Issues - Provided data, such as "Global geothermal electricity stands at 15,599.99 MWe," requires more credible and updated sources. - The connection between the content and the article's title is unclear; some global figures may be redundant. Suggestion Focus more on statistics and information directly related to East Africa, avoiding unnecessary details.</p> <p>4. Article Structure Issues - The thematic division of the article is insufficient. - Geographic sections (e.g., different countries) lack logical organization, and the information is scattered. Suggestion Reorganize the sections as follows: - Introduction - Background and Literature Review - Methodology - Results and Discussion - Conclusion and Recommendations</p> <p>5. Methodology Issues - The use of "complex data sets" is not clearly explained. - Analytical tools used are not specified. Suggestion Provide details about specific methods, such as analytical models or software used for data analysis.</p> <p>6. Results and Discussion Issues - The results section is scattered and lacks coherence.</p>	

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	<p>- Analyses are not in-depth and are mostly descriptive.          - Presented data, such as tables, lack proper interpretation.  <b>Suggestion</b>          Add comparative analyses between countries and explain reasons for variations. Use quantitative data to emphasize findings.</p> <p><b>7. Conclusions and Recommendations</b>  <b>Issues</b>          - The conclusion is overly generic and not grounded in the study's findings.          - Recommendations are not practical and lack sufficient depth.  <b>Suggestion</b>          Strengthen the conclusion based on the challenges and solutions discussed in the text. Recommendations should include actionable steps, such as policy frameworks or legislative guidelines.</p> <p><b>8. References</b>  <b>Issues</b>          - A significant number of references are outdated.          - Some citations (e.g., [39]) appear incomplete.  <b>Suggestion</b>          Incorporate more recent articles (post-2019) and references relevant to East Africa.</p> <p><b>9. Language Quality</b>  <b>Issues</b>          - The language in some parts of the article is unclear and overly lengthy.          - Some sentences are repetitive or lack scientific tone.  <b>Suggestion</b>          Rewrite sentences for better clarity and consider professional editing for improved readability and precision.</p>	
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**PART 2:**

	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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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