

**Review Form 1.7**

Journal Name:	<b>Journal of Energy Research and Reviews</b>
Manuscript Number:	<b>Ms_JENRR_112101</b>
Title of the Manuscript:	<b>Assessment of combustion properties of briquettes produced from three different biomasses sourced from Tarkwa, Ghana</b>
Type of the Article	<b>Original Research Article</b>

## Review Form 1.7

### PART 1: Review Comments

	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)
<p><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<ol style="list-style-type: none"> <li>1. Yes. The study focused on producing alternative fuel sources using biomass. By investigating the influence of different agro-waste biomasses on the combustion properties, the study demonstrated that briquettes made from sawdust exhibit superior combustion characteristics. The findings showcase the feasibility of producing quality briquettes from agro-waste, offering a practical solution to both environmental and energy challenges.</li> <li>2. Yes, the title is suitable.</li> <li>3. Yes, the abstract is comprehensive.</li> <li>4. Yes, the subsections and structure of the manuscript are appropriate.</li> <li>5. Yes, it is scientifically correct.</li> <li>6. Among the 40 references cited, only 6 are from the past three years (2021-2023). Most references were published before 2015. To enhance the contemporaneity of this research, it is recommended to include more recent literature from the past two years in the introduction. The following are suggested references:  For climate change issues and greenhouse gas emissions: Yao et al. (2023) A Review of Recent Progress of Carbon Capture, Utilization, and Storage (CCUS) in China. Applied Sciences, 13(2), 1169, <a href="https://doi.org/10.3390/app13021169">https://doi.org/10.3390/app13021169</a>; Hai et al. (2023). Reduction in environmental CO<sub>2</sub> by utilization of optimized energy scheme for power and fresh water generations based on different uses of biomass energy. Chemosphere, 319, 137847, <a href="https://doi.org/10.1016/j.chemosphere.2023.137847">https://doi.org/10.1016/j.chemosphere.2023.137847</a>; Quan et al. (2023). Biomass-based carbon materials for CO<sub>2</sub> capture: A review. Journal of CO<sub>2</sub> Utilization, 68, 102373, <a href="https://doi.org/10.1016/j.jcou.2022.102373">https://doi.org/10.1016/j.jcou.2022.102373</a>.  For biomass energy: Capareda, S. (2023). Introduction to biomass energy conversions. CRC press; Asgar et al. (2023). Analyzing the impact of access to electricity and biomass energy consumption on infant mortality rate: a global perspective. Environmental Science and Pollution Research, 30(11), 29550-29565, <a href="https://doi.org/10.1007/s11356-022-24144-9">https://doi.org/10.1007/s11356-022-24144-9</a>.</li> <li>7. In the first paragraph of the introduction section, while the authors briefly mention that renewable energy resources have garnered increased attention in recent years, I recommend incorporating additional content to specifically emphasize the advantages of biomass as a renewable energy resource over traditional fossil fuel. This addition will effectively underscore the significance of the current study. The modifications I suggest are as follows, and the authors can selectively adopt or modify. "Biomass, as an energy source, presents notable advantages when compared to fossil fuels. It is a renewable resource that contributes to reduced greenhouse gas emissions, as the carbon released during combustion is part of a natural cycle facilitated by plant growth. Biomass utilization allows for the responsible management of organic waste, offering a sustainable solution for waste disposal. With diverse feedstocks including agricultural residues, wood waste, and organic materials, biomass provides flexibility and can be locally produced, promoting energy security."</li> <li>8. Please standardize the spelling of consistent terms. For example, avoid using both "sawdust" and "saw dust" interchangeably, please use either "sawdust" or "saw dust" consistently throughout the manuscript. Similarly, please pay attention to "Figure" and "Fig", "percentage of volatile matter" and "percentage volatile matter".</li> </ol>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	<p>Grammatical accuracy should be improved. Please refer to the detailed modifications I made in the manuscript.</p>	

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<b>Optional/General</b> comments		
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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<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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