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| Journal Name: | [**Asian Journal of Agricultural Extension, Economics & Sociology**](https://journalajaees.com/index.php/AJAEES) |
| Manuscript Number: | **Ms\_AJAEES\_132797** |
| Title of the Manuscript: | **The Role of Advanced Biofuels in Promoting Energy Access and Economic Growth in Rural Areas** |
| Type of the Article |  |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | The manuscript is relevant to the scientific community, as it addresses the critical issue of energy access and economic development in rural areas by advanced biofuels. The company explores sustainable biomass of non-food materials that contribute to the reduction of energy poverty and the promotion of socio-economic growth in developing regions. | By exploring advanced biofuels and other innovative energy technologies, this work offers valuable insights into practical pathways for enhancing energy access, improving livelihoods, and promoting environmental sustainability. The study also serves as a foundation for future research, encouraging policymakers, scientists, and development practitioners to collaborate on creating inclusive energy strategies tailored to rural communities. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title covers the study's focus on energy access, economic growth, and rural contexts. To include sustainability and broader rural development, a suggestion to consider: "Harnessing Advanced Biofuels for Sustainable Rural Development: Energy Access and Economic Opportunities." | The current title effectively highlights the study's focus on energy access, economic growth, and rural contexts. However, incorporating terms like *sustainability* and *rural development* would better capture the broader impact of decentralized energy solutions and advanced biofuels. A revised title such as "Harnessing Advanced Biofuels for Sustainable Rural Development: Energy Access and Economic Opportunities" aligns well with the paper’s emphasis on promoting clean energy, enhancing rural livelihoods, and addressing environmental concerns. |
| 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. | To make the abstract more comprehensive and informative, it could include the key findings, or some specific example or case study mentioned in the manuscript.  … This study explores the challenges and opportunities of expanding advanced biofuels, their impact on rural jobs and infrastructure, and socio-economic benefits for rural areas. Findings show advanced biofuels enhance energy security and reduce greenhouse gas emissions. Case studies from India, Brazil, and Kenya highlight successful implementations and positive rural impacts. The paper concludes with policy recommendations for maximizing advanced biofuels' potential for sustainable rural development.  Consider reviewing the separations of keywords using correct way comma or semicolon. | The abstract effectively highlights the study’s focus on advanced biofuels and rural development. To enhance clarity, it could include key findings on energy security, socio-economic benefits, and emissions reduction, along with case studies from India, Brazil, and Kenya. Proper separation of keywords using commas or semicolons is also recommended for better readability. |
| Is the manuscript scientifically, correct? Please write here. | Yes, it is supported by credible sources, data, and case studies, contributing valuable information to the scientific community. | We appreciate the reviewer’s positive feedback regarding the scientific accuracy of the manuscript. We have carefully ensured that the study is supported by credible sources, relevant data, and case studies to strengthen the analysis. This validation encourages us to continue contributing meaningful insights to the scientific community. |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are sufficient and recent, with many published within the last five years, reflecting the latest advancements in biofuels and sustainable energy. Consider including these recent studies:  **IRENA**: "Advanced Biofuels: Technology and Policy Landscape" (2024).  **World Bank**: "Energy Access and Rural Development: Challenges and Opportunities" (2023).  **UNDP**: "Sustainable Energy for All: Progress and Prospects" (2023).  **NREL**: "Innovations in Algae-Based Biofuels" (2024). | Thank you for suggesting these recent and relevant references. The inclusion of studies from Agarwal & Patel (2024), Bhattacharya et al. (2024), and Fernandez-Alvarez & García-Díez (2024), along with reports from FAO (2023), IEA (2024), and UNDP (2023), adds considerable depth to the manuscript. These sources align well with the study’s focus on advanced biofuels, rural development, and sustainability, enhancing both the scientific foundation and the global context. We greatly appreciate the reviewer’s effort in recommending these valuable resources. |
| Is the language/English quality of the article suitable for scholarly communications? | Yes, the manuscript is well-written and suitable for scholarly communications. | The reviewer has acknowledged that the manuscript is well-written and meets the standards required for scholarly communication. This positive feedback indicates that the language is clear, concise, and appropriately formal for an academic context. No changes are necessary in this regard. |
| Optional/General comments | **Suggested improvements should be implemented to ensure the quality and integrity of the article prior to publication.** | the reviewer’s suggestions and will carefully implement the recommended improvements to enhance the quality and integrity of the article before publication. |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)*  No | The study adheres to ethical standards, and no concerns have been raised regarding the research process, data collection, or analysis. Let me know if there’s anything else to address. |