Review Form 3

Journal Name:	**Journal of Energy Research and Reviews**
Manuscript Number:	**Ms_JENRR_123670**
Title of the Manuscript:	**Research progress and challenges of hydrogen-ammonia hybrid fuel engines**
Type of the Article	**Review Article**

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PART 1: Review Comments

Compulsory REVISION comments	**Reviewer's comment**	**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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript is significant for the scientific community because it addresses the growing need for sustainable energy solutions, specifically in the area of hydrogen-ammonia hybrid fuel engines. These engines have the potential to reduce carbon emissions while leveraging cleaner fuel alternatives, an essential step toward combating climate change. I appreciate the paper's comprehensive review of the challenges and advancements in hydrogen and ammonia fuel research, as well as its focus on emission control, which is a crucial consideration in the shift towards green technologies.	
Is the title of the article suitable? **(If not please suggest an alternative title)**	The title is suitable as it accurately reflects the content of the paper, focusing on the research progress and challenges of hydrogen-ammonia hybrid fuel engines.	
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.	The abstract is fairly comprehensive, covering key aspects such as the potential of hydrogen and ammonia as clean fuels, their respective challenges, and the hybrid fuel engine's benefits in emission control. However, it addresses hydrogen and ammonia challenges but omits specific hybrid engine issues, leaving the perspective incomplete.	
Are subsections and structure of the manuscript appropriate?	The subsections are well-structured, providing a logical flow and clear understanding of each fuel's challenges and potential. Adding a "Challenges and Opportunities" subsection and a Conclusion section would help highlight key hurdles and summarize findings while offering future insights.	
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.	This manuscript is scientifically robust and technically sound, offering a thorough review of hydrogen and ammonia engines, supported by both historical and contemporary research. It systematically addresses combustion characteristics, emission control, and challenges, backed by evidence from various studies. The manuscript also highlights the advancements and limitations of hydrogen/ammonia hybrid engines, demonstrating a well-rounded understanding, while effectively discussing technical challenges and future research directions."	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. **-**	The references provided are extensive and generally cover both historical and recent developments in hydrogen and ammonia engine research. However, some references are relatively old, especially those from the 1960s and 1990s, which could be supplemented with more recent findings to ensure the manuscript reflects the latest advancements in the field.	

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	The language quality of the article is generally suitable for scholarly communication, but it needs some improvement. Refining the language would enhance its clarity and scholarly impact.	
Optional/General comments	• The manuscript offers a thorough analysis of hydrogen and ammonia engines with valuable insights into combustion characteristics and emission control. While well-researched, it would benefit from refined language for improved clarity and flow, and the inclusion of more recent references could strengthen its impact. Overall, it contributes meaningfully to the field and could be enhanced with these improvements. • Enhancing the manuscript with diagrams and illustrations could significantly increase its impact. • Supported by previous tables and comparisons, this enhancement significantly increases both the manuscript's impact and overall quality. **SEE ATTACHMENT**	

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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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