

# Review of: "Modified free energy generation using permanent Neodymium Magnet based on Bedini with Maxwell and Lorenz gauge conditions"

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Potential competing interests: No potential competing interests to declare.

## **Comments:**

The paper presents a compelling and innovative approach to free energy generation. The integration of Neodymium magnets with Bedini's circuit and the application of Maxwell's equations under Lorenz gauge conditions is well-conceived. The detailed mathematical modeling and comparison with the original Bedini design provides valuable insights into the performance enhancements achieved by the modified design.

1. The introduction effectively sets the stage by highlighting the current energy challenges and the need for innovative solutions. However, it would benefit from a more detailed review of existing technologies and their limitations to better contextualize the proposed solution.
2. The methodology is rigorous and well-documented. However, the practical aspects of the design, such as potential implementation challenges and mitigation strategies, should be addressed to provide a more comprehensive understanding.
3. The results are clearly presented and demonstrate significant improvements in CoP. Nonetheless, the reliance on simulations calls for more extensive real-world testing to validate the findings. Including a discussion on potential discrepancies between simulated and real-world results would be valuable.
4. The figures and tables are well-designed and effectively support the text.
5. The conclusion succinctly summarizes the key findings and contributions. It would be beneficial to include a brief discussion on future research directions and potential applications to highlight the broader impact of the work.

## Recommendations

a) Conduct more extensive real-world testing to validate the simulation results.

Provide a detailed cost analysis, including long-term maintenance and scalability considerations.

b) Address potential implementation challenges and propose mitigation strategies.

c) Explore opportunities for interdisciplinary collaboration to further enhance the design and performance of the proposed system.

Overall, the paper makes a significant contribution to the field and presents a promising solution to contemporary energy challenges. With further validation and refinement, the proposed design has the potential to make a substantial impact on the renewable energy market.

