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.

This paper proposes an improved free energy generator (MFEG) based on the Bedini principle, combined with Maxwell equations and Lorenz gauge conditions for design. MFEG aims to address issues such as electricity generation costs, resource reserves, greenhouse gas emissions, energy storage, and electricity demand in specific residential areas.

1. The paper proposes a new type of free energy generator that combines Bedini motors and radiated energy but does not provide a detailed explanation of its specific innovative points and advantages compared to existing technologies.

2. Lack of in-depth comparison between the proposed method and existing technologies in terms of efficiency, cost, and sustainability.

3. The paper mentioned the use of Pro/Engineer and MATLAB 2017a software for simulation but did not provide sufficient software usage details or parameter settings, which may affect the reproducibility of the results.

4. The display of results mainly relies on charts, but the text does not provide detailed explanations or methodologies for the charts, making it difficult for readers to fully understand the meaning behind the data.

5. Whether the data and charts in the paper accurately reflect the experimental results and theoretical model needs further verification. For example, Figures 10 and 11 show the performance comparison between the original design and MFEG, but do not provide sufficient data points or error analysis to support these charts.

6. The energy efficiency coefficient (CoP) calculation mentioned in the paper requires detailed input and output energy data, but the article does not provide a complete energy measurement method or calibration process, which may affect the accuracy of CoP values.