

Review of: "Longevity of Electric Vehicle Operations"

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Potential competing interests: No potential competing interests to declare.

The authors address the topic of electric vehicles (EVs) and their longevity - an emerging topic of increasing research and practical significance. While the presentation and structure of the paper is decent, I fear the writing needs to be significantly improved to engage the reader. Without the use of relevant data and examples to support the arguments and claims made in the paper, it falls short of being a proper research publication and seems like a student term paper at best. The topic is indeed broad, and the authors have done a fair job of identifying the various issues that affect the longevity of EVs, such as policy concerns, customer acceptance, battery technology, and infrastructure expansion. However, none of these aspects have been delved into with enough in-depth analysis to ensure any novelty or rigor in the manuscript. Furthermore, the authors have not mentioned much of anything about the research methodology - thereby making the paper less of a research article and more of a surface-level commentary on EVs and their future. On a positive note, I believe the authors have cited decent references (although there's ample room for improvement in citations as well).

I would not recommend this manuscript for further publication unless sincere efforts are made to significantly improve its underlying investigation as well as presentation. Including a case study and focussing on a specific aspect (e.g. policy issues or integrating renewable energy with battery technology or customer acceptance of EVs, etc.) can be one of the potential directions the author may consider. Rewriting the introduction and conclusion is a must. The introduction can be strengthened by highlighting the problem and motivation with specific instances and restructuring it by writing about what the study is doing only after discussing the problem, motivation, importance, existing solution, and gaps. A lot of the sections in the paper are repetitive and vague, which is not only a problem due to the broad choice of topic but also because of the considerably weak positioning of the paper. The discussion of sustainable transportation (especially in section VI) as of now is incomplete without the context of appropriate SDG or ESG goals. Some empirical investigation, systematic literature review, or secondary data analysis/metanalysis can add a lot to the paper's positioning, rigor, and novelty. The conclusion section need not repeat excerpts from the body of the paper, but talk more about this topic's limitations and future scope.