

Review Form 3

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_130695
Title of the Manuscript:	Well-to-wheel efficiency analysis for mild hybrid vehicles
Type of the Article	

General guidelines for the Peer Review process:

This journal’s peer review policy states that **NO** manuscript should be rejected only on the basis of ‘**lack of Novelty**’, provided the manuscript is scientifically robust and technically sound.
To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>
Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

Review Form 3

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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 well-to-wheel efficiency analysis study will be expanded for mild hybrid vehicles and will lead to well-to-wheel efficiency studies for the use of other types of vehicles This study should not be limited to a hybrid electric vehicle and should be continued	No changes
Is the title of the article suitable? (If not please suggest an alternative title)	Well-to-Wheel Efficiency Calculations in Light Hybrid Vehicles: Energy Consumption and Emission Analyzes This study should be supported by analysis results made with a more comprehensive package program. If you want a comprehensive, scientific approach, you can choose GREET or Autonomie software. If you are going to be more technical and focus on vehicle drive chain details, MATLAB/Simulink or AVL CRUISE may be ideal for you.	Changed the title to reflect energy consumption. I did not add emission analysis to the title as its not covered in the paper. The point regarding the technical analysis is well received but I wanted the main intention of the paper to be more about different stages of energy dissipation and the overall result for efficiency of operating a mild hybrid vehicle. I also think technical analysis will be helpful to make the result more accurate but it will involve a lot more effort. Instead I wanted to use the result from the references used and focus on further research for plug ins and battery vehicles and relevant comparisons. Hope we can come to a compromise on this point.
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 summary of the article is comprehensive but some additions should be made. ” This study examines the energy chain of a hybrid electric vehicle in detail, providing a detailed measurement of the efficiency in the entire process, from the supply of fuel to the energy transmitted to the wheels of the vehicle. Within the scope of the analysis, every stage of the energy transfer process from the well to the vehicle, such as extraction, transportation, processing and storage of the fuel In addition, the energy conversions within the vehicle, the efficiency of components such as the engine and powertrain, energy losses and usage points were evaluated in detail. It aims to provide important outputs to reduce”	Revised the abstract to reflect points made here and by other reviewers
Is the manuscript scientifically, correct? Please write here.	The article is scientifically accurate The scientific accuracy of the article should be supported by various software.	No Change. No technical analysis added as mentioned above.
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	References can be increased	Added further references and added latest references (highlighted)
Is the language/English quality of the article suitable for scholarly communications?	The language/English quality of the article is suitable for scientific communication	No change
Optional/General comments	The formulas used should be presented systematically by creating tables, and these tables should serve as a basic resource to support other studies and perform a more comprehensive analysis. Additionally, the study can be supported with more visuals and diagrams to make the findings more visually understandable. This increases the impact of the work and helps readers understand complex data more easily.	Added numbering for all the major equations and tables. Added additional Sankey diagrams showing the energy flow (figure 2 &3)

PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	