

Gmail interface showing an email from Editorial Office (sustainability@mdpi.com) regarding a manuscript submission. The email subject is "[Sustainability] Manuscript ID: sustainability-2096591 - Submission Received". The email body includes the following information:

- Journal name: Sustainability
- Manuscript ID: sustainability-2096591
- Type of manuscript: Article
- Title: Performance of generator translation and rotation on stroke length drive of the two-rod mechanism in renewable energy power plant
- Authors: Hendra Hendra *, Dhimas Satria, Hernadewita Hernadewita, Yoserizal Yoserizal, Ahmed M. Galal
- Received: 29 November 2022
- E-mails: hendra@untirta.ac.id, dhimassatria@untirta.ac.id, hernadewita@mercubuana.ac.id, h711973@yahoo.com, ahm.mohamed@psau.edu.sa
- Submitted to section: Energy Sustainability, https://www.mdpi.com/journal/sustainability/sections/energy_sustainability
- Advanced Renewable Energy for Sustainability, https://www.mdpi.com/journal/sustainability/special_issues/Advanced_Renewable_Energy_Sustainability

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MDPI Manuscript Information Overview page. The page displays the following details for Manuscript ID sustainability-2096591:

- Status: Pending review
- Article type: Article
- Title: Performance of generator translation and rotation on stroke length drive of the two-rod mechanism in renewable energy power plant
- Journal: Sustainability
- Section: Energy Sustainability
- Special Issue: Advanced Renewable Energy for Sustainability
- Abstract: Generators are the main components in renewable energy power plants, especially in ocean wave of power plants energy. Generator consists of two components of translational and rotational motion. Generators of translational and rotational motion can produce power electric from renewable energy sources such as water, wind, sea waves, biomass and others. The voltage and electric power are the performance values of the translational and rotational generators which are affected by the type of magnet, the number of coil winding, the distance between the magnet and the coil winding and rotation, the geometry of the drive components, the type of drive, the length of the generator drive stroke and so on. The types of translational and rotational generator drives can be found in the use of pneumatic motion mechanisms, two-rod motion, crankshaft motion and others. In this paper, the generator drive step using a two-rod motion mechanism are used to get the performance of generator. The two-rod drive mechanism consists of a round plate component and a square piston rod. The result show that the generator with two-rod motion mechanism by using rotation of generator at 100-250 rpm can produces an electric voltage 55 Volt and power 0,377 w.
- Keywords: Two-rod mechanism; generator; translation; rotation; voltage
- Manuscript File: [manuscript.docx](#)

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Manuscript-ID	Title	Section/Special Issue/Topic	Status	Submission Date
sustainability-2096591	Performance of generator translation and rotation on stroke length drive of the two-rod mechanism in renewable energy power plant	S: Energy Sustainability SI: Advanced Renewable Energy for Sustainability	Under review	2022-11-29

The screenshot shows a web browser window with several tabs open. The active tab is titled "[Sustainability] Manuscript ID: su...". The browser address bar shows the URL: susy.mdpi.com/user/manuscripts/review_info/37ba74b2155239aefd2edac2a5d4fdab. The website header includes navigation links: Journals, Topics, Information, Author Services, Initiatives, About, and user information: hendra@untirta.ac.id, My Profile, Logout, Submit.

The main content area is titled "Manuscript Information Overview" and displays the following details:

- Manuscript ID: **sustainability-2096591**
- Status: Under review
- Article type: Article
- Title: Performance of generator translation and rotation on stroke length drive of the two-rod mechanism in renewable energy power plant
- Journal: *Sustainability*
- Section: Energy Sustainability
- Special Issue: *Advanced Renewable Energy for Sustainability*
- Abstract: Generators are the main components in renewable energy power plants, especially in ocean wave of power plants energy. Generator consists of two components of translational and rotational motion. Generators of translational and rotational motion can produce power electric from renewable energy sources such as water, wind, sea waves, biomass and others. The voltage and electric power are the performance values of the translational and rotational generators which are affected by the type of magnet, the number of coil winding, the distance between the magnet and the coil winding and rotation, the geometry of the drive components, the type of drive, the length of the generator drive stroke and so on. The types of translational and rotational generator drives can be found in the use of pneumatic motion mechanisms, two-rod motion, crankshaft motion and others. In this paper, the generator drive step using a two-rod motion mechanism are used to get the performance of generator. The two-rod drive mechanism consists of a round plate component and a square piston rod. The result show that the generator with two-rod motion mechanism by using rotation of generator at 100-250 rpm can be produces an electric voltage 55 Volt and power 0,377 w.
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Logout (/user/logout)	Authors	Hendra Hendra * , Dhimas Satria , Hernadewita Hernadewita , Yoserizal Yoserizal , Ahmed M. Galal
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Are the conclusions thoroughly supported by the results presented in the article or referenced in secondary literature? () (x) () ()

Comments
and
Suggestions
for Authors

Reviewer Comments

In this paper, generators are the main components in renewable energy power plants, especially in 17 ocean wave of power plants energy. Generator consists of two components of translational and ro-18 tational motion. Generators of translational and rotational motion can produce power electric from 19 renewable energy sources such as water, wind, sea waves, biomass and others. The voltage and 20 electric power are the performance values of the translational and rotational generators which are 21 affected by the type of magnet, the number of coil winding, the distance between the magnet and 22 the coil winding and rotation, the geometry of the drive components, the type of drive, the length 23 of the generator drive stroke and so on. The followings should be carefully addressed in the revision to be published in Sustainability.

- 1- The authors should be followed the instruction of the Sustainability all parts and sections in this manuscript.
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8- The literature review must be improved. Please highlight in the literature review the differences between previous papers and your paper. Please clearly indicate the knowledge gap and prove that it is a really not analyzed area of the field. Please indicate new approach / new methods in a comparison to the existing investigations (literature review should be extended by adding the below references). The Effect of Different Twisted Tape Inserts Configurations on Fluid Flow Characteristics, Pressure Drop, Thermo-hydraulic Performance and Heat Transfer Enhancement in the 3D Circular Tube.

9- You need to add error analysis of your results and add the error bars in your graphs to indicate your accuracy measurements.

10- Improve work justification.

11- More quantitative conclusions should be presented. Please prepare additional comparisons, some percentage differences. There is a lack of quantitative conclusions which should contain main findings from the paper and highlight the new and high novelty and contribution of your work to the field.

12- Present the mathematical equation of the boundary conditions and initial condition.

13- I would also suggest including in the conclusion section but also in several other places in the manuscript discussion and comparison with findings from other authors with similar published research work.

14- The conclusion section on lacks in summative conclusions. The main results, novelty and academic contributions should be emphasized in this section. Moreover, are the results obtained in this paper really applicable in other similar researches?

15- In the discussion development, it is very important to emphasize points of agreement or disagreement between results in this work and others cited in references part of manuscript.

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17- The nomenclature list is not complete. Please recheck parameters, variables and abbreviations appeared in the manuscript and append them to the nomenclature list.

18- Finally, the author to read through the whole text and correct it to make it more reader-friendly.

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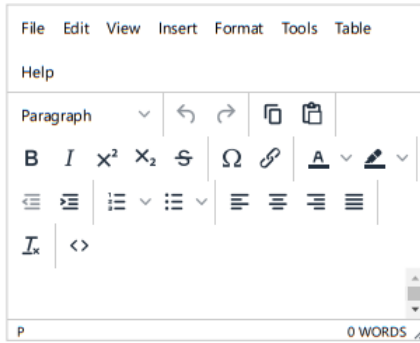
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Is the article adequately referenced? () (x) () ()

Are the conclusions thoroughly supported by the results presented in the article or referenced in secondary literature? (x) () () ()

Comments and Suggestions for Authors
This paper is very interesting and relevant. Renewable energy is very widely used these days. Mankind needs new types of generators to convert the energy of sea waves and tides. Therefore, the study of the authors is very interesting.

But there are some comments on the presentation of materials. The article does not contain mathematical formulas. There are no charts in the article.

I think that it is necessary to strengthen the mathematical component of the article. You need to add math formulas. And build graphs of changes in the parameters of the generator.

Submission Date 29 November 2022

Date of this review 22 Dec 2022 09:58:58

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