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Engineering Journal (Eng. J.) <em@editorialmanager.com> to me

Jan 4, 2022, 7:28 PM

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Your submission entitled "Geometry Optimization of PV/T-TEG Collector under Different Operating Conditions Using CFD Simulation and Taguchi Method" has been received by Engineering Journal.

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CC: "Angga Darma Prabowo" angga_dprabowo@gmail.com, "Gusri Akhyar Ibrahim" gusri.akhyar@eng.unila.ac.id

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Wed, Jun 22, 10:33 AM



Ref.: ENGJ-D-22-00010

Title: Geometry Optimization of PV/T-TEG Collector under Different Operating Conditions Using CFD Simulation and Taguchi Method

Corr. Author: Associate Professor Amrizal Nalis

Dear Associate Professor Amrizal Nalis,

Our reviewers have now commented on your paper. You will see that they are advising you to revise your manuscript. If you are prepared to undertake the work required, I would be pleased to reconsider my decision.

For your guidance, reviewers' comments are appended below.

If you decide to revise the work, please submit a list of changes or a rebuttal against each point which is being raised when you submit the revised manuscript. Whenever possible, please consider citing articles published by Engineering Journal.

Your revision is due by 2022-07-21 23:59:59.

To submit a revision, go to <https://www.editorialmanager.com/engj/> and log in as an Author. You will see a menu item call Submission Needing Revision. You will find your submission record there.

Best regards,

Yan Zhao, PhD
Associate Editor

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Reviewer 1: Reviewer's general comment: The work focused on Geometry Optimization of PV/T-TEG Collector under Different Operating Conditions Using CFD Simulation and Taguchi Method. The manuscript is within the scope of the Journal. In order to help improve the paper quality, my suggestions and comments are shown below.

1) Abstract: qualitative results with quantitative data are necessary to support the contribution of the work.

2) Highlights: should be within 85 characters.

3) More references with latest papers are necessary to enhance the readability of this study.

4) Scientific gaps are not clear and the originality is not straightforward.

5) Fig. 1, the process is confusing. Any experimental study for CFD model validation? Furthermore, as there are several different scenarios with different setting parameters, which scenario will be selected to be the validation case?

6) The PV/T-TEG system can generate both thermal and electrical energy. The dual functions on solar-to-power and thermal-to-power can further enhance the power efficiency. It is necessary to provide both thermal/electrical energy and efficiency of the system, together with parametrical analysis.

7) This study proposes a new structure with TEG techniques. Compared to cooling systems with PCMs or other nano heat transfer fluids, what are advantages and disadvantages of the PV/T-TEG system?

8) This paper is interesting and the comparison with latest techniques can further increase the attractiveness of this manuscript.

Multi-level uncertainty optimisation on phase change materials integrated renewable systems with hybrid ventilations and active cooling. *Energy*, 2020

Passive and active phase change materials integrated building energy systems with advanced machine-learning based climate-adaptive designs, intelligent operations, uncertainty-based analysis and optimisations: A state-of-the-art review. *Renewable & Sustainable Energy Reviews* 2020

A state-of-the-art-review on phase change materials integrated cooling systems for deterministic parametrical analysis, stochastic uncertainty-based design, single and multi-objective optimisations with machine learning applications. *Energy and Buildings* 2020.

A review on cooling performance enhancement for phase change materials integrated systems—flexible design and smart control with machine learning applications. *Building and Environment* 2020.

Overall, the topic of this study is attractive and important. The manuscript is well-written and organised. Research skills, innovation and contribution are good but need to be improved. Hope the comments can be helpful to improve the paper quality.

Reviewer 2:

Should address clearly the simulation work by showing the image of boundary conditions, solar load model (s2s/DO/etc), grid independent test,

Required to mention ANSYS software license (version).

Should state clearly the PVT in this project producing what type of useful heat, either air or water. If hot air is the output from the PVT, the design must be enclosed on the bottom to enable the flowing air harvest/collecting hot fin from TEG.

Recommend to include statement of heat transfer from the PV towards the TEG fin in the introduction part. It may give the better understanding to a reader the present of the TEG.

The results to come out with the conclusion of optimization of design and parameter considerably not extensive. It need to show the limit lower and upper before determining the optimize conditions.

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Editor decision on your submission ENGJ-D-22-00010R1 - [EMID:4e6aecdc8eb51055] External

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Wed, Aug 17, 9:07 AM

Ref: ENGJ-D-22-00010R1
Title: Geometry Optimization of PVT-TEG Collector under Different Operating Conditions Using CFD Simulation and Taguchi Method
Corr. Author: Associate Professor Amrizal Nalis

Dear Associate Professor Amrizal Nalis,

I am pleased to tell you that your work has now been accepted for publication in Engineering Journal. It was accepted on 2022-08-16 22:06:17. Comments from the Editor and Reviewers can be found below.

Your article is scheduled to be included in our August 2022 issue (vol. 26, no. 8). We will contact you again when your proof is ready for you to check before its publication. Thank you for submitting your work to Engineering Journal. We look forward to publishing your article.

Best regards,

Yan Zhao, PhD
Associate Editor

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From: "Engineering Journal (Eng. J.)" ed.office@engj.org
Subject: Editor decision on your submission ENGJ-D-22-00010R1

Ref.: ENGJ-D-22-00010R1
Title: Geometry Optimization of PV/T-TEG Collector under Different Operating Conditions Using CFD Simulation and Taguchi Method
Corr. Author: Associate Professor Amrizal Nalis

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