

Bukti Korespondensi (Corresponding Author)

Judul: "ELD Analysis under Tropical Climate using Wavelet and Regression Approaches for Power Management: Indonesia Case Study"

Jurnal: ***International Journal of Sustainable Engineering*** (Taylor & Francis)



Yusri Syam Akil <yusakil@unhas.ac.id>

**Submission received for International Journal of Sustainable Engineering
(Submission ID: 22237456)**

TSUE-peerreview@journals.tandf.co.uk <TSUE-peerreview@journals.tandf.co.uk>
To: yusakil@unhas.ac.id

Sat, Sep 17, 2022 at 2:03 PM



Dear Yusri Syam Akil,

Thank you for your submission.

Submission ID	22237456
Manuscript Title	ELD Analysis under Tropical Climate using Wavelet and Regression Approaches for Power Management: Indonesia Case Study
Journal	International Journal of Sustainable Engineering
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International Journal of Sustainable Engineering Editorial Office

Revisi Ke-1



Yusri Syam Akil <yusakil@unhas.ac.id>

222237456 (International Journal of Sustainable Engineering) A revise decision has been made on your submission

International Journal of Sustainable Engineering <onbehalf@manuscriptcentral.com>

Thu, Jan 12, 2023 at 12:39 AM

Reply-To: TSUE-peerreview@journals.tandf.co.uk

To: yusakil@unhas.ac.id

11-Jan-2023

Dear Dr Yusri Syam Akil:

Manuscript ID TSUE-2022-0087 entitled "ELD Analysis under Tropical Climate using Wavelet and Regression Approaches for Power Management: Indonesia Case Study" by Akil, Yusri Syam; Fortuna, Dewi M.; A., Hasniaty that you submitted to the International Journal of Sustainable Engineering, has been reviewed.

You will see that, although the reviewer(s) found some merit in the paper, substantial revisions are required before we can consider it further. The reviewer(s) comments are included at the end of this email. Nevertheless, we do hope you will be able to undertake the additional work on the paper and look forward to receiving re-submission of a revised manuscript by 08-Feb-2023.

To submit a revision, go to <https://rp.tandfonline.com/submission/flow?submissionId=222237456&step=1>. 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.

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If it is not possible for you to submit your revision in a reasonable amount of time, we may have to consider your paper as a new submission. Please advise us if the revision is delayed.

We thank you for submitting your manuscript to the International Journal of Sustainable Engineering and look forward to receiving your revision.

Sincerely,
Professor S. Rahimifard
Editor in Chief, International Journal of Sustainable Engineering

Comments from the Editors and Reviewers:

Reviewer: 1

Comments to the Author

Authors have done mere correlation analysis. There is no useful novel conclusion arrived based on the analysis. The research contribution of the authors is not brought out in the paper. The contribution is mainly on data analytics. Hence this paper may not suitable for publication in the Journal of Sustainable Engineering.

Reviewer: 2

Comments to the Author

The study implemented wavelet-regression analysis to detect the relationship between Indonesian electricity load demand and the climatic variables temperature, solar radiation exposure, humidity, and wind speed. As the authors reviewed, thus far many studies investigated this issue and resulted in similar findings. In the reviewer's opinion, neither the findings nor the implemented methods are new. Discussion on the findings is too weak, particularly about

humidity and wind speed. The study also lacks a rigorous discussion on the effect of seasons on energy demand. The text also includes some wrong interpretations such as "(page 16: This shown the weather variables can explain variation of total ELD around 91.44%)" and many grammatical mistakes.

Reviewer: 3

Comments to the Author

Comments

1. Abstract requires a strict reframing of sentences.
2. Your claim in page 3 that "no systematic studies are found using wavelet transform" is not genuine. Please refer to wavelet regression for multi-scale analysis in journals.
3. Though it is mentioned in section 2 that Fig 1 and 2 demonstrate electricity used and temperature/solar radiation for the month of January 2018, the number of days selected for display seems to be limited. Is there any particular reason behind this?
4. Equation 4 in section 3.3, describing wavelet coherence has an undefined variable y ! Also usage of S and s do baffle the readers!
5. Section 3.4 mentions about applied standard statistical tests like AIC /SC which are not explained in detail.
6. Section 4.1 describes about "Return-series forms of the observed variables". Can you please elaborate on what return-series means?
7. In figure 7,8,9 and 10, how did the author fix the direction of arrows?
7. Section 4.3.1 says, temperature leads the load demand. Explain the physical significance of this, with respect to your result.
8. Abstract says regression approaches were carried out, but there is no mention of the name of the approach which has been carried out.

Editor's comment:

The authors are requested to revise the manuscript based on Reviewers' comments. Abstract needs improvement. Contributions of the research and novelty needs further elaboration and justification. Language needs improvement. The authors are requested to highlight the changes in response to reviewers' comments using different colour font and enclose responses to reviewers' comments.

Perbaikan Revisi Ke-1



Yusri Syam Akil <yusakil@unhas.ac.id>

Revised submission received for International Journal of Sustainable Engineering (Submission ID: 22237456.R1)

TSUE-peerreview@journals.tandf.co.uk <TSUE-peerreview@journals.tandf.co.uk>
To: yusakil@unhas.ac.id

Tue, Feb 7, 2023 at 9:28 PM



Dear Yusri Syam Akil,

Thank you for submitting your revised manuscript.

Submission ID	22237456
Manuscript Title	ELD Analysis under Tropical Climate using Wavelet and Regression Approaches for Power Management: Indonesia Case Study
Journal	International Journal of Sustainable Engineering

You can check the progress of your submission, and make any requested revisions, on the Author Portal.

Thank you for submitting your work to our journal.
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Revisi Ke-2



Yusri Syam Akil <yusakil@unhas.ac.id>

222237456.R1 (International Journal of Sustainable Engineering) A revise decision has been made on your submission

International Journal of Sustainable Engineering <onbehalf@manuscriptcentral.com>

Wed, May 17, 2023 at 7:11 PM

Reply-To: TSUE-peerreview@journals.tandf.co.uk

To: yusakil@unhas.ac.id

17-May-2023

Dear Dr Yusri Syam Akil:

Manuscript ID TSUE-2022-0087.R1 entitled "ELD Analysis under Tropical Climate using Wavelet and Regression Approaches for Power Management: Indonesia Case Study" by Akil, Yusri Syam; Fortuna, Dewi M.; A., Hasniaty that you submitted to the International Journal of Sustainable Engineering, has been reviewed.

You will see that, although the reviewer(s) found some merit in the paper, substantial revisions are required before we can consider it further. The reviewer(s) comments are included at the end of this email. Nevertheless, we do hope you will be able to undertake the additional work on the paper and look forward to receiving re-submission of a revised manuscript by 14-Jun-2023.

To submit a revision, go to <https://rp.tandfonline.com/submission/flow?submissionId=222237456.R1&step=1>. 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.

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If it is not possible for you to submit your revision in a reasonable amount of time, we may have to consider your paper as a new submission. Please advise us if the revision is delayed.

We thank you for submitting your manuscript to the International Journal of Sustainable Engineering and look forward to receiving your revision.

Sincerely,
Professor S. Rahimifard
Editor in Chief, International Journal of Sustainable Engineering

Comments from the Editors and Reviewers:

Reviewer: 1

Comments to the Author

The title of the paper is clear and concise, but it would be helpful to include more information on the specific research questions that the study aims to answer.

The city of Makassar is a good choice, as it helpful to provide a specific and detailed analysis of the relationship between weather variables and ELD in a particular location.

The following corrections can be carried in the paper for further improvement:

1. Can add the steps for the work flow and the flow of work can be mentioned in detail.
2. Analysis of the work flow is good but lags in relation to Wavelet Coherence on ELD and Weather Parameters. This needs to be proved based on technical content or theorem or equations.
3. Justification on proposed model equations 5, 6 and 7 need to be given with proof.
4. The smaller AIC and SC values, better the model in terms of the fit of model related to the analyzed data. Justify the statement with respect to equations or any explanations.
5. Give the reference in obtaining data for processing with justification during the start of results and discussion section.
6. The details of the tool for processing the proposed work need to be mentioned.

9/5/23, 4:30 PM Universitas Hasanuddin Mail - 222237456.R1 (International Journal of Sustainable Engineering) A revise decision has been m...

7. Justify that analysis using three years of daily data is sufficient for characterization.
8. English correction is required throughout the paper.

Reviewer: 2

Comments to the Author

The authors addressed all my concerns.

Editor's comments: The authors are requested to revise the paper based on comments of Reviewer # 1. Technical details to be provided as requested by Reviewer. Language needs improvement. Contributions of the study towards advancing research in Sustainability to be highlighted.

Perbaikan Revisi Ke-2



Yusri Syam Akil <yusakil@unhas.ac.id>

Revised submission received for International Journal of Sustainable Engineering (Submission ID: 222237456.R2)

1 message

TSUE-peerreview@journals.tandf.co.uk <TSUE-peerreview@journals.tandf.co.uk>
To: yusakil@unhas.ac.id

Sun, Jun 11, 2023 at 11:00 PM



Dear Yusri Syam Akil,

Thank you for submitting your revised manuscript.

Submission ID	222237456
Manuscript Title	ELD Analysis under Tropical Climate using Wavelet and Regression Approaches for Power Management: Indonesia Case Study
Journal	International Journal of Sustainable Engineering

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Thank you for submitting your work to our journal.
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Revisi Ke-3



Yusri Syam Akil <yusakil@unhas.ac.id>

222237456.R2 (International Journal of Sustainable Engineering) A revise decision has been made on your submission

1 message

International Journal of Sustainable Engineering <onbehalf@manuscriptcentral.com>

Mon, Jul 24, 2023 at 9:04 PM

Reply-To: TSUE-peerreview@journals.tandf.co.uk

To: yusakil@unhas.ac.id

24-Jul-2023

Dear Dr Yusri Syam Akil:

Manuscript ID TSUE-2022-0087.R2 entitled "ELD Analysis under Tropical Climate using Wavelet and Regression Approaches for Power Management: Indonesia Case Study" by Akil, Yusri Syam; Fortuna, Dewi M.; A., Hasniaty that you submitted to the International Journal of Sustainable Engineering, has been reviewed.

The reviews are generally favourable and suggest that, subject to some minor revisions, your paper could be suitable for publication. The reviewer(s) comments are included at the end of this email. We do hope that you will wish to undertake revision of the paper which should be submitted by 07-Aug-2023.

To submit a revision, go to <https://rp.tandfonline.com/submission/flow?submissionId=222237456.R2&step=1>. 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.

In accordance with our format-free submission policy, an editable version of the article must be supplied at the revision stage. Please submit your revised manuscript files in an editable file format.

If you have any questions or technical issues, please contact the journal's editorial office at TSUE-peerreview@journals.tandf.co.uk.

IMPORTANT: Your original files are available to you when you upload your revised manuscript. Please delete any redundant files before completing the submission.

If it is not possible for you to submit your revision in a reasonable amount of time, we may have to consider your paper as a new submission. Please advise us if the revision is delayed.

Once again, we thank you for submitting your manuscript to the International Journal of Sustainable Engineering and look forward to receiving your revision.

Sincerely,

Professor S. Rahimifard
Editor in Chief, International Journal of Sustainable Engineering

Comments from the Editors and Reviewers:

Reviewer: 1

Comments to the Author

The following corrections can be made:

Page No. 8: Research workflow can be replaced with work flow for ELD Analysis

Table 1 & 2 – Not properly aligned

1. Why specifically data from 2018 to 2020 is considered for evaluation?
2. The work discussed in this paper can be compared with novel or existing work
3. Conclusion part can still be pointed towards the work completion.

For ELD, improve the analysis part for the required demand in the particular area.

Overall the paper is good.

9/5/23, 4:41 PM

Universitas Hasanuddin Mail - 222237456.R2 (International Journal of Sustainable Engineering) A revise decision has been m...

Associate Editor

Comments to the Author:

The authors are requested to revise the manuscript based on reviewer's comments.

Perbaikan Revisi Ke-3



Yusri Syam Akil <yusakil@unhas.ac.id>

Revised submission received for International Journal of Sustainable Engineering (Submission ID: 222237456.R3)

1 message

TSUE-peerreview@journals.tandf.co.uk <TSUE-peerreview@journals.tandf.co.uk>
To: yusakil@unhas.ac.id

Thu, Aug 3, 2023 at 8:58 PM



Dear Yusri Syam Akil,

Thank you for submitting your revised manuscript.

Submission ID	222237456
Manuscript Title	ELD Analysis under Tropical Climate using Wavelet and Regression Approaches for Power Management: Indonesia Case Study
Journal	International Journal of Sustainable Engineering

You can check the progress of your submission, and make any requested revisions, on the Author Portal.

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Paper Accepted



Yusri Syam Akil <yusakil@unhas.ac.id>

International Journal of Sustainable Engineering - Decision on Manuscript ID TSUE-2022-0087.R3

1 message

International Journal of Sustainable Engineering <onbehalf@manuscriptcentral.com>
Reply-To: TSUE-peerreview@journals.tandf.co.uk
To: yusakil@unhas.ac.id

Wed, Aug 16, 2023 at
1:48 AM

15-Aug-2023

Dear Dr Yusri Syam Akil:

Ref: TSUE-2022-0087.R3 ELD Analysis under Tropical Climate using Wavelet and Regression Approaches for Power Management: Indonesia Case Study by Akil, Yusri Syam; Fortuna, Dewi M.; A., Hasniaty

Our referees have considered your paper and have recommended publication in International Journal of Sustainable Engineering. We are pleased to accept your paper in its current form, which will now be forwarded to the publisher for copy editing and typesetting. (Please see and incorporate the additional comment by the Reviewer at the end of this email.)

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Sincerely
Professor S. Rahimifard
Editor in Chief, International Journal of Sustainable Engineering

Reviewer 1:

Justify that analysis using three years of daily data is sufficient for characterization. Why don't the author uses five to ten years of data. If data is available kindly add it.

Paper Publication



Yusri Syam Akil <yusakil@unhas.ac.id>

Taylor & Francis author update: access to your article published in an issue of International Journal of Sustainable Engineering

1 message

Taylor & Francis <noreply@tandfonline.com>
Reply-To: support@tandfonline.com
To: yusakil@unhas.ac.id

Thu, Aug 31, 2023 at 1:11 PM



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ELD analysis under tropical climate using wavelet and regression approaches for power management: Indonesia case study

Yusri Syam Akil  Dewi M. Fortuna & Hasniaty A.
Pages 197-210 | Received 19 Sep 2022, Accepted 15 Aug 2023, Published online: 30 Aug 2023

Download citation <https://doi.org/10.1080/19397038.2023.2250374>

ABSTRACT