

# **SYARAT TAMBAHAN**

untuk Usulan ke Guru Besar/Profesor

Sebagai Reviewer Jurnal Internasional Bereputasi

# **IJECE**

**Nama Dosen Pengusul:**

**Posma Sariguna Johnson Kennedy**

**NIDN: 0331017403**



posma\_hutatasoit hutasoit &lt;posmahutasoit@gmail.com&gt;

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**[IJECE] Article Review Request**

2 messages

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**Lech M. Grzesiak** <ijece@iaescore.com>  
Reply-To: Yahya Zakaria <yahya.zakaria2930@gmail.com>  
To: Posma Sariguna Johnson Kennedy <posmahutasoit@gmail.com>

Tue, Feb 20, 2024 at 7:10 AM

The following message is being delivered on behalf of International Journal of Electrical and Computer Engineering (IJECE).

---

Dear Prof/Dr/Mr/Mrs. Posma Sariguna Johnson Kennedy,

I believe that you would serve as an excellent reviewer of the manuscript, "Wind-Powered Water Pumping System for Food Estate Program in Indonesia," which has been submitted to International Journal of Electrical and Computer Engineering (IJECE). The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

Please log into the journal website by 2024-02-27 to indicate whether you will undertake the review or not, as well as to access the submission and record your review and recommendation. The website is <https://ijece.iaescore.com/index.php/IJECE>

The review itself is due 2024-04-02.

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Submission URL:

<https://ijece.iaescore.com/index.php/IJECE/reviewer/submission/74132>

Thank you for considering this request.

Best Regards,  
Yahya Zakaria  
IJECE Editorial Staff on behalf of Editor-in-Chief  
International Journal of Electrical and Computer Engineering  
Institute of Advanced Engineering and Science (IAES)  
[yahya.zakaria2930@gmail.com](mailto:yahya.zakaria2930@gmail.com)

"Wind-Powered Water Pumping System for Food Estate Program in Indonesia"

**Abstract**

The Food and Agriculture Organization released a communiqué in March 2020 cautioning about the possibility of a worldwide food emergency due to COVID-19. As a response to the food shortages brought on by the COVID-19 outbreak, the authorities of Indonesia initiated a nationwide program aimed at improving the country's food supply known as the Food Estate (FE), which was later incorporated into national strategic programs. The climate and availability of surface water sources in this region make establishing an FE area in the Central Sumba Regency difficult. Sumba, on the other hand, possesses wind energy resources that can be transformed into electrical energy and used to pump underground water for agricultural purposes. A wind-powered water pump (WPW) is being developed in this study to provide water for maize plantations in the FE region in Central Sumba District,

Indonesia. The study on the Levelized Cost of Energy (LCOE) for water pumping indicates that the wind-powered system is more economically viable than the diesel-powered alternative. The LCOE for a WPW pumping system is 6,994 IDR/kWh, whereas the LCOE for a diesel-powered system is 16,667 IDR/kWh. The overall net present value of WPW and diesel-powered systems is 708,667,200 IDR and 2,158,349,000 IDR, respectively.

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Sincerely yours,

Yahya Zakaria,

IJECE Editorial Staff on behalf of Editor-in-Chief

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## [IJECE] Registration as Reviewer with International Journal of Electrical and Computer Engineering (IJECE)

1 message

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**Lech M. Grzesiak** <ijece@iaescore.com>

Tue, Feb 20, 2024 at 7:04 AM

To: Posma Sariguna Johnson Kennedy <posmahutasoit@gmail.com>

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In light of your expertise, we have taken the liberty of registering your name in the reviewer database for International Journal of Electrical and Computer Engineering (IJECE). This does not entail any form of commitment on your part, but simply enables us to approach you with a submission to possibly review. On being invited to review, you will have an opportunity to see the title and abstract of the paper in question, and you'll always be in a position to accept or decline the invitation. You can also ask at any point to have your name removed from this reviewer list.

We are providing you with a username and password, which is used in all interactions with the journal through its website. You may wish, for example, to update your profile, including your reviewing interests.

Username: pjohnsonkennedy  
Password: KsM79zz4

Thank you,  
Lech M. Grzesiak

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**[IJECE] Article Review Request (Y-35023)**

3 messages

fadhilafp.iaes@gmail.com &lt;fadhilafp.iaes@gmail.com&gt;

Tue, Feb 27, 2024 at 3:55 PM

Reply-To: fadhilafp.iaes@gmail.com

To: posmahutasoit@gmail.com

*The following message is being delivered on behalf of International Journal of Electrical and Computer Engineering (IJECE).*

*(We apologize if you receive this message multiple times.)*

Dear Prof./Dr. Pasma Sariguna Johnson Kennedy,

I believe that you would serve as an excellent reviewer of the manuscript, "**Wind-Powered Water Pumping System for Food Estate Program in Indonesia**" which has been submitted to *International Journal of Electrical and Computer Engineering (IJECE)*. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us. The review is due **2024-04-02**.

Please log into the journal web site to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation. The website is [ijece.iaescore.com](http://ijece.iaescore.com).

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Please find the paper you are required to review in <http://ijece.iaescore.com/index.php/IJECE/reviewer/>.

If you have any difficulties during the process, please do not hesitate to contact me.

Thank you for considering this request.

Best regards,

Fadhila F. Pramasti

IJECE

[fadhilafp.iaes+ijece@gmail.com](mailto:fadhilafp.iaes+ijece@gmail.com)

**"Wind-Powered Water Pumping System for Food Estate Program in Indonesia"****Abstract**

The Food and Agriculture Organization released a communiqué in March 2020 cautioning about the possibility of a worldwide food emergency due to COVID-19. As a response to the food shortages brought on by the COVID-19 outbreak, the authorities of Indonesia initiated a nationwide program aimed at improving the country's food supply known as the Food Estate (FE), which was later incorporated into national strategic programs. The climate and availability of surface water sources in this region make establishing an FE area in the Central Sumba Regency difficult. Sumba, on the other hand, possesses wind energy resources that can be transformed into electrical energy and used to pump underground water for agricultural purposes. A wind-powered water pump (WPW) is being developed in this study to provide water for maize plantations in the FE region in Central Sumba District, Indonesia. The study on the Levelized Cost of Energy (LCOE) for water pumping indicates that the wind-powered system is more economically viable than the diesel-powered alternative. The LCOE for a WPW pumping system is 6,994 IDR/kWh, whereas the LCOE for a diesel-powered system is 16,667 IDR/kWh. The overall net present value of WPW and diesel-powered systems is 708,667,200 IDR and 2,158,349,000 IDR, respectively.

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**posma\_hutatasoit hutasoit** <posmahutasoit@gmail.com>  
To: fadhilafp.iaes@gmail.com

Tue, Feb 27, 2024 at 4:00 PM

Ok, I'll review.  
[Quoted text hidden]

---

**Fadhila Pramasti** <fadhilafp.iaes@gmail.com>  
To: posma\_hutatasoit hutasoit <posmahutasoit@gmail.com>

Thu, Feb 29, 2024 at 11:46 AM

Dear Dr Posma,

Thank you for your willingness. Please click the "WILL DO THE REVIEW" on your review page to start the review process.

Regards,  
Fadhila F. Pramasti  
IJECE  
[Quoted text hidden]



posma\_hutatasoit hutasoit <posmahutasoit@gmail.com>

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1 message

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**IAES Support Team** <ijece@iaescore.com>

Fri, Mar 1, 2024 at 5:53 AM

Reply-To: IAES Support Team <info@iaesjournal.com>

To: Posma Sariguna Johnson Kennedy <posmahutasoit@gmail.com>

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35023	02-20	Electrical		WIND-POWERED WATER PUMPING SYSTEM FOR FOOD ESTATE PROGRAM...	04-02	1

1 - 1 of 1 Items

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## #35023 Review

### Submission To Be Reviewed

Title Wind-Powered Water Pumping System for Food Estate Program in Indonesia  
 Journal Section Electrical and Power Engineering

Abstract The Food and Agriculture Organization released a communiqué in March 2020 cautioning about the possibility of a worldwide food emergency due to COVID-19. As a response to the food shortages brought on by the COVID-19 outbreak, the authorities of Indonesia initiated a nationwide program aimed at improving the country's food supply known as the Food Estate (FE), which was later incorporated into national strategic programs. The climate and availability of surface water sources in this region make establishing an FE area in the Central Sumba Regency difficult. Sumba, on the other hand, possesses wind energy resources that can be transformed into electrical energy and used to pump underground water for agricultural purposes. A wind-powered water pump (WPW) is being developed in this study to provide water for maize plantations in the FE region in Central Sumba District, Indonesia. The study on the Levelized Cost of Energy (LCOE) for water pumping indicates that the wind-powered system is more economically viable than the diesel-powered alternative. The LCOE for a WPW pumping system is 6,994 IDR/kWh, whereas the LCOE for a diesel-powered system is 16,667 IDR/kWh. The overall net present value of WPW and diesel-powered systems is 708,667,200 IDR and 2,158,349,000 IDR, respectively.

Submission Editor Youssef Errami (Review)  
 Salvatore Favuzza, Ph.D. (Review)  
 Fateh Krim (Review)  
 Mihaela M. Albu (Review)  
 Peng Zhang (Review)

Submission Metadata [VIEW METADATA](#)

### Review Schedule

Editor's Request 2024-02-20  
 Your Response 2024-03-24  
 Review Submitted —  
 Review Due 2024-04-02

### Review Steps

1. Notify the submission's editor as to whether you will undertake the review.  
Response Accepted
2. If you are going to do the review, consult Reviewer Guidelines below.
3. Click on file names to download and review (on screen or by printing) the files associated with this submission.
 

Submission Manuscript	<a href="#">35023-67754-1-RV.DOCX</a>	2024-01-02
Supplementary File(s)	None	
4. Click on icon to fill in the review form.  
[Review Form](#)
5. In addition, you can upload files for the editor and/or author to consult.
 

Uploaded files	None
<a href="#">Choose File</a>	No file chosen
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6. Select a recommendation and submit the review to complete the process. You must enter a review or upload a file before selecting a recommendation.

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## Send Email

To	Fateh Krim <fkrim@univ-setif.dz> Mihaela M. Albu <albu@ieee.org> Peng Zhang <peng.zhang@stonybrook.edu> Youssef Errami <errami.emi@gmail.com> Salvatore Favuzza, Ph.D. <salvatore.favuzza@unipa.it>
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	<input type="checkbox"/> Send a copy of this message to my address (posmahutasoit@gmail.com)
Attachments	<a href="#">Choose File</a> No file chosen <a href="#">Upload</a>
Subject	[[IJECE] Able to Review
Body	Fateh Krim: I am able and willing to review the submission, "Wind-Powered Water Pumping System for Food Estate Program in Indonesia," for International Journal of Electrical and Computer Engineering (IJECE). Thank you for thinking of me, and I plan to have the review completed by its due date, 2024-04-02, if not before.  Posma Sariguna Johnson Kennedy

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## View Metadata

### Title and Abstract

Title	Wind-Powered Water Pumping System for Food Estate Program in Indonesia
Abstract	The Food and Agriculture Organization released a communiqué in March 2020 cautioning about the possibility of a worldwide food emergency due to COVID-19. As a response to the food shortages brought on by the COVID-19 outbreak, the authorities of Indonesia initiated a nationwide program aimed at improving the country's food supply known as the Food Estate (FE), which was later incorporated into national strategic programs. The climate and availability of surface water sources in this region make establishing an FE area in the Central Sumba Regency difficult. Sumba, on the other hand, possesses wind energy resources that can be transformed into electrical energy and used to pump underground water for agricultural purposes. A wind-powered water pump (WPW) is being developed in this study to provide water for maize plantations in the FE region in Central Sumba District, Indonesia. The study on the Levelized Cost of Energy (LCOE) for water pumping indicates that the wind-powered system is more economically viable than the diesel-powered alternative. The LCOE for a WPW pumping system is 6,994 IDR/kWh, whereas the LCOE for a diesel-powered system is 16,667 IDR/kWh. The overall net present value of WPW and diesel-powered systems is 708,667,200 IDR and 2,158,349,000 IDR, respectively.

### Cover

Cover image	—
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### Indexing

Academic discipline and sub-disciplines	Electrical (Power)
Keywords	Food estate Central Sumba Regency Water pumping Wind turbine Levelized cost
Language	en

### Supporting Agencies

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# Wind-Powered Water Pumping System for Food Estate Program in Indonesia

Amiral Aziz<sup>1</sup>, Didik Rostyono<sup>1</sup>, Toha Zaky<sup>1</sup>, Nurry Widya Hesty<sup>1</sup>, Ifanda<sup>1</sup>, Khotimatul Fauziah<sup>1</sup>,  
Ridwan Budi Prasetyo<sup>2</sup>, Rudi Purwo Wijayanto<sup>3</sup>, Ario Witjakso<sup>1</sup>, and Agustina Putri Mayasari<sup>4</sup>

<sup>1</sup>Research Center for Conversion and Conservation of Energy – National Research and Innovation Agency Republic of Indonesia (BRIN) – South Tangerang 15314 Indonesia.

<sup>2</sup>Research Center for Hydrodynamic Technology – National Research and Innovation Agency Republic of Indonesia (BRIN) – Yogyakarta, Indonesia.

<sup>3</sup>Directorate of Technology Transfer and Audit Systems, Deputy for Utilization of Research and Innovation. – National Research and Innovation Agency Republic of Indonesia (BRIN) – South Tangerang 15314 Indonesia.

<sup>4</sup>BKPUK – National Research and Innovation Agency Republic of Indonesia (BRIN) – South Tangerang 15314 Indonesia.

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## Article Info

### Article history:

Received month dd, yyyy

Revised month dd, yyyy

Accepted month dd, yyyy

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### Keywords:

Food estate

Central Sumba Regency

Water pumping

Wind turbine

Levelized cost

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## ABSTRACT

The Food and Agriculture Organization released a communiqué in March 2020 cautioning about the possibility of a worldwide food emergency due to COVID-19. As a response to the food shortages brought on by the COVID-19 outbreak, the authorities of Indonesia initiated a nationwide program aimed at improving the country's food supply known as the Food Estate (FE), which was later incorporated into national strategic programs. The climate and availability of surface water sources in this region make establishing an FE area in the Central Sumba Regency difficult. Sumba, on the other hand, possesses wind energy resources that can be transformed into electrical energy and used to pump underground water for agricultural purposes. A wind-powered water pump (WPW) is being developed in this study to provide water for maize plantations in the FE region in Central Sumba District, Indonesia. The study on the Levelized Cost of Energy (LCOE) for water pumping indicates that the wind-powered system is more economically viable than the diesel-powered alternative. The LCOE for a WPW pumping system is 6,994 IDR/kWh, whereas the LCOE for a diesel-powered system is 16,667 IDR/kWh. The overall net present value of WPW and diesel-powered systems is 708,667,200 IDR and 2,158,349,000 IDR, respectively.

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---

## Corresponding Author:

Amiral Aziz

Research Center for Conversion and Conservation of Energy – National Research and Innovation Agency Republic of Indonesia (BRIN) – South Tangerang 15314 Indonesia.

Email: amiral.aziz@brin.go.id

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\*

It is necessary to add a comprehensive evaluation of diverse program needs and the utilization of research outcomes for the food estate program's effectiveness.

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## #35023 Review

### Submission To Be Reviewed


Title	Wind-Powered Water Pumping System for Food Estate Program in Indonesia
Journal Section	Electrical and Power Engineering
Abstract	The Food and Agriculture Organization released a communiqué in March 2020 cautioning about the possibility of a worldwide food emergency due to COVID-19. As a response to the food shortages brought on by the COVID-19 outbreak, the authorities of Indonesia initiated a nationwide program aimed at improving the country's food supply known as the Food Estate (FE), which was later incorporated into national strategic programs. The climate and availability of surface water sources in this region make establishing an FE area in the Central Sumba Regency difficult. Sumba, on the other hand, possesses wind energy resources that can be transformed into electrical energy and used to pump underground water for agricultural purposes. A wind-powered water pump (WPW) is being developed in this study to provide water for maize plantations in the FE region in Central Sumba District, Indonesia. The study on the Levelized Cost of Energy (LCOE) for water pumping indicates that the wind-powered system is more economically viable than the diesel-powered alternative. The LCOE for a WPW pumping system is 6,994 IDR/kWh, whereas the LCOE for a diesel-powered system is 16,667 IDR/kWh. The overall net present value of WPW and diesel-powered systems is 708,667,200 IDR and 2,158,349,000 IDR, respectively.
Submission Editor	Fateh Krim  (Review) Mihaela M. Albu  (Review) Peng Zhang  (Review) Youssef Errami  (Review) Salvatore Favuzza, Ph.D.  (Review)
Submission Metadata	<a href="#">VIEW METADATA</a>

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Editor's Request	2024-02-20
Your Response	2024-03-24
Review Submitted	2024-04-02
Review Due	2024-04-02

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- Notify the submission's editor as to whether you will undertake the review.  
Response Accepted
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- Click on file names to download and review (on screen or by printing) the files associated with this submission.
 

Submission Manuscript	<a href="#">35023-67754-1-RV.DOCX</a>	2024-01-02
Supplementary File(s)	None	
- Click on icon to fill in the review form.  
[Review Form](#) 
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Uploaded files	None
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Recommendation	<b>Revisions Required</b>	2024-04-02
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- Does the title of the paper accurately reflect the major focus contribution of this paper?
- If No, please suggest change of the title as appropriate: Is the abstract an appropriate and adequate digest of the work?
- Is the paper clear, concise, and well organized?
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- Are the figures and tables in IJECE style, clear, relevant, and are the captions adequate?
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- Please mark appropriate scale for the overall grade for this paper? 10, 9, 8, 7, 6, 5, 4, 3, 2, 1 or 0 (A score of 7 or above typically provides ground for IJECE acceptance)

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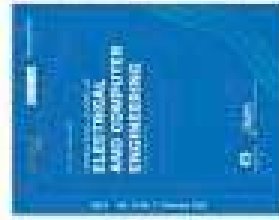
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