



Fajri Vidian unsri <fajri.vidian@unsri.ac.id>

eScripts: Decision on your submission "Thermodynamic Simulation of Producer Gas from Biomass Gasification" (ID: 6842) in Energy Web

3 pesan

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Kepada: fajri.vidian@unsri.ac.id
Cc: arifdrahman@gmail.com

20 Juli 2022 pukul 08.56



eScripts

Dear Fajri Vidian,

The review process for your manuscript

Paper ID: 6842

Title: Thermodynamic Simulation of Producer Gas from Biomass Gasification

Authors: *Fajri Vidian, Arif Rahman Hakim.

Publication: Energy Web

has been completed.

Based on the reviews and the Handling Editor evaluation below, your paper requires major revision.

If you feel you can respond to their remarks (attached below), you can submit revised version on the "My Papers" page on eScripts, or via the following direct link:

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Reviewers comments:

*** REFEREE 1 REPORT ***

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** Below you can find comments on each criterions **

1 . Novelty of the contribution

thermodynamic simulation of the combustion of producer gas from biomass gasification is carried out to obtain the effect of excess of air on combustion flame temperature and heat release during the combustion process. Simulations are carried out by applying mass and energy balance. The simulation results show that an increase in excess of air will decrease the non-adiabatic and adiabatic flame temperature. The increase in excess of air will reduce the amount of heat release to the environment for the same flame temperature. The maximum adiabatic flame temperature is at 1725.430C. The non-adiabatic flame temperature in the range of 600 to 800 0C at heat release in the range of 20.1 kW to 28.8 kW and excess of air in the range of 0 to 40%.

2 . Innovation impact of the proposed concept

thermodynamic simulation of the combustion of producer gas from biomass gasification is carried out to obtain the effect of excess of air on combustion flame temperature and heat release during the combustion process. Simulations are carried out by applying mass and energy balance. The simulation results show that an increase in excess of air will decrease the non-adiabatic and adiabatic flame temperature. The increase in excess of air will reduce the amount of heat release to the environment for the same flame temperature. The maximum adiabatic flame temperature is at 1725.430C. The non-adiabatic flame temperature in the range of 600 to 800 0C at heat release in the range of 20.1 kW to 28.8 kW and excess of air in the range of 0 to 40%.

3 . Technical content and correctness of the contribution

biomass gasification in the form of producer gas can be used as a fuel gas burner

4 . Importance of the manuscript for the thematic area

yes

5 . Implementation potential of the proposed concept

The use of new and renewable energy for application on gas burners is very beneficial, especially for the environment.

6 . Completeness of the references

complete

7 . Quality of the writing
good

**** General comments by referee 1 to Author****

Note for this paper the preparation of the paper is still reversed for a better Nomenclature after reference and this paper has not explained the evaluation of the Thermodynamic Simulation of Producer Gas from Biomass Gasification, please make it, thank you

***** REFEREE 2 REPORT *****

=====

**** Below you can find comments on each criterions ****

1 . Novelty of the contribution

...

2 . Innovation impact of the proposed concept

...

3 . Technical content and correctness of the contribution

...

4 . Importance of the manuscript for the thematic area

...

5 . Implementation potential of the proposed concept

...

6 . Completeness of the references

...

7 . Quality of the writing

...

**** General comments by referee 2 to Author****

The organization of the paper is not in proper order.
The need for the proposed system is not justified. Please clearly mention the problems in the existing system.
The proposed methodology is very weak.
The author should compare the proposed system with atleast five state art of the method.
In the conclusion section, the authors claim that their system is better when comparing with the existing system; however, there are no metrics and graphs provided to support their claim.

There no future direction added.
Improve your English. The majority of the sentences lack clarity.



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20 Juli 2022 pukul 14.25

Dear Editor

Thank You Very Much

For Your Attention

best regards
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Dear Fajri Vidian,

The copyright agreement for your article has been accepted by the corresponding author.

Paper ID: 6842

Title: Thermodynamic Simulation of Producer Gas Combustion from Biomass Gasification

Authors: *Fajri Vidian, Arif Rahman Hakim.


Publication: Energy Web

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Dear EAI – European Alliance for Innovation, n.o.
Thank You very much for your information. I will do it as soon as possible.

best regards

Fajri vidian

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Best Regards

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Dear Fajri Vidian,

Thank you. I will move forwards with the publishing process of your manuscript.

Kind regards,
Nikola

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21 Desember 2022 pukul 19.49

Dear Prof Dr Nikola

Thank you very much for your attention and information

Best Regards

Fajri Vidian

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