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6842	Thermodynamic Simulation of Producer Gas from Biomass Gasification ***Fajri Vidian***, *Arif Rahman Hakim* Journal: Energy Web For any query contact EIC: ghazanfar.safdar@beds.ac.uk, ayslam@eee.hku.hk		

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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
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Reviewers comments:

*** REFEREE 1 REPORT ***

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

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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 ***

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

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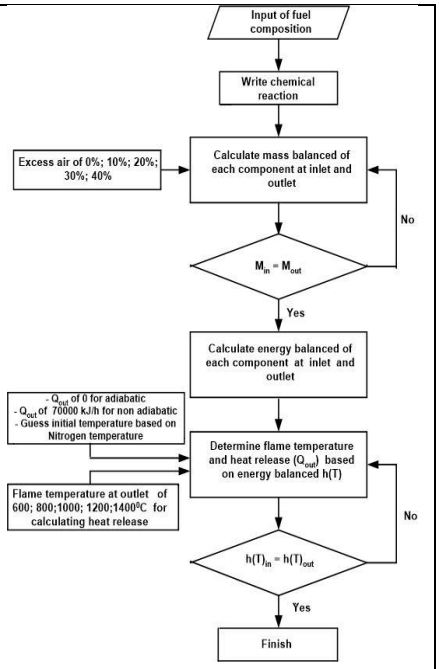
1 . Novelty of the contribution
...
2 . Innovation impact of the proposed concept
...
3 . Technical content and correctness of the contribution
...
4 . Importance of the manuscript for the thematic area
...
5 . Implementation potential of the proposed concept
...
6 . Completeness of the references
...
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 propsed 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.

REVISI YANG DILAKUKAN DAN DIKIRIM VIA ONLINE SUBMISION

Reviewer 1		
No	Comments	Responses
1`	for this paper the preparation of the paper is still reversed for a better Nomenclature after reference	The position of Nomenclature and Reference has been changed, please see in the manuscript revision
2.	this paper has not explained the evaluation of the Thermodynamic Simulation of Producer Gas from Biomass Gasification, please make it,	the true of the manuscript title is "Thermodynamic Simulation of Producer Gas **Combustion** from Biomass Gasification", so it has been explained in the manuscript revision.
Reviewer 2		
No	Comments	Responses
1.	The organization of the paper is not in proper order	The organizations paper has been improved and corrected, please see in manuscripts revision
2.	The need for the proposed system is not justified. Please clearly mention the problems in the existing system	The problem of existing system is very hard to get the value of heat release, by using simulation thermodynamic from this model, It is easy to get
3.	The proposed methodology is very weak	The proposed methodology has been improved, Please see in manuscript revision

		
4.	The author should compare the proposed system with at least five state art of the method.	the method calculation in combustions process have the same with the method that have been used by: 1. P. Mondal, S. Ghosh, Thermodynamic Performance Assessment of a Biogasification Based Small-scale Combined Cogeneration Plant Employing Indirectly Heated Gas Turbine, INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH, Vol. 5, No. 2, 2015,pp 354-366. In Page of 357 2. Xiaoli Hao, Guoqiang Zhang, Youming Chen, Jin Zhou, Thermodynamic Model and Numerical Simulation of Single-Shaft Microturbine Performance, HVAC Technologies for Energy Efficiency, Vol. IV-10-1, pp 1-7,2006 In Page of 3 3. A. Durante , G. Pena-Vergara , P.L. Curto-Risso , A. Medina , A. Calvo

		Hernández , hermodynamic simulation of a multi-step externally fired gas turbine powered by biomass, Energy Conversion and Management 140 (2017) 182–191 4. In Richard V. James, Howells I. Hart, Barinyima Nko, Thermodynamic and Environmental Assessment of Gas Flaring in the Niger Delta Region of Nigeria. Journal of Power and Energy Engineering, 6, 39-56.2018 In Page of 43. Page of 185 5. Larionov V.M, Saifullin E. R, Konstantinov N. V, Nazarychev S. A, Malakhov A. O, Yunusova E. A, The influence of hydrogen concentration on the flame temperature of a mixture of methane-hydrogen fuel with air, Journal of Physics: Conf. Series, 1328 012048, 2019 In Page of 1-2 it is put on manuscript revision at '3.3 The Comparation of Thermodynamic Simulation and Experimental' with paragraph of "The simulation method adopted was also referenced [7, 22-25]".
5	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.	The author does not conclude that this simulation result is better, but only describes the simulation results obtained by the author for the gas composition conditions used. Then the results of this simulation can be compared with the experimental results described in section "3.3 . The Comparation of Thermodynamic Simulation and Experimental" although the

		results are still different because the operating parameters used are different. The comparison graph between the simulation and experimental results is shown in Figure 5.
6.	There no future direction added	it is put on manuscript revision '3.3 The Comparation of Thermodynamic Simulation and Experimental' with paragraph of "To remedy this situation, the future study must equalize the operating parameters and improve both the simulation and experimental aspects".
7.	Improve your English. The majority of the sentences lack clarity	The English has been improved by using proof reading, please see on the manuscript revision

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25 Oktober 2022 pukul 14.15

Dear Fajri Vidian,

We are pleased to inform you that your manuscript,
Paper ID: 6842
Title: Thermodynamic Simulation of Producer Gas Combustion from Biomass Gasification
Authors: *Fajri Vidian, Arif Rahman Hakim.

has been accepted for publication in Energy Web.

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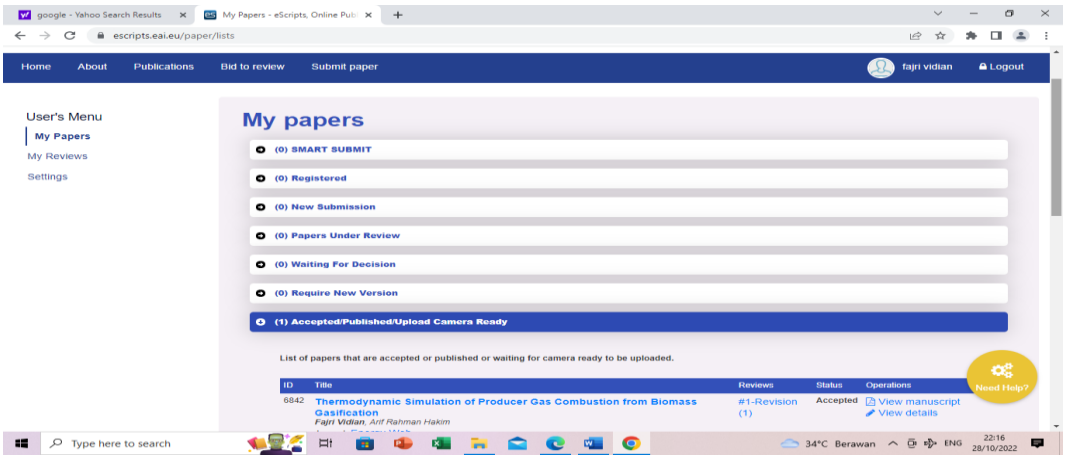

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21 Desember 2022 pukul 16.52

Dear authors,

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Best regards,
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