CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE

Faculty of Tropical AgriSciences

Evaluation of the Bachelor Thesis by Opponent

Thesis Title	Assessment of the environmental and economic potential of biomass in Cambodia				
Name of the student	Nariputhisak Vong				
Thesis supervisor	doc. Bc. Ing. Tatiana Ivanova, Ph.D.				
Department	Department of Sustainable Technologies				
Opponent	Ing. et Ing. William Nkomoki, Ph.D.				
Formulation of the air	ns 1 2 3 4				
Choice of suitable me	thods 1 2 3 4				
Fulfilment of the aims	1 2 3 4				
Scientific contribution	of the thesis				
Originality of the thes	1 2 3 4				
Theoretical backgrour	nd of the author 1 2 3 4				
Handling with data an	d information 1 2 3 4				
Handling with scientif	ic literature (citations)				
Argumentation and cr	itical thinking 1 2 3 4				
Abstract and keyword	1 2 3 4				
Structure of the chapt	ers and paragraphs 1 2 3 4				
Comprehensibility of	1 2 3 4				
Accuracy of the termin	1 2 3 4				
Quality of scientific la	nguage 1 2 3 4				
Formatting, layout and	d general impression 1 2 3 4				
Evaluation of the worl	k by grade (1, 2, 3, 4) 2				
	Evaluation: 1 = the best				
Date 03/09/2021	Signature of Opponent				
	Signature of Opponent				

Other comments or suggestions:

The Bachelor thesis presented titled "Assessment of the environmental and economic potential of biomass in Cambodia" is authored by Nariputhisak Vong under the supervision of Associate Professor Tatiana Ivanova and in consultation with Charles Amarachi Ogbu, MSc. The main objective of this thesis was to analyze and summarize the data and information on biomass role and energy potential in Cambodia.

The study is well-structured, over 31 pages, excluding the references. The study is a literature review consideration. I appreciate that the author was able to incorporate the citation in the text.

Limitation includes -

The main objective indicates the component of analyzing and summarizing the data; however, the literature does not show the summarized data aspect apart from the information on the role.

The author does not indicate how the data was processed and analyzed from relevant sources on the methodology.

The author performed a decent work reviewing the literature. However, I would have appreciated it if more recent references were used, especially on statistical data. For example, "A total of 15.3 million people in Cambodia was without electricity in 2012". "Cambodia's overall rice production in 2014 was estimated to be at 9.3 million tons (page 25)".

My main concern is that the economic assessment did not consider past literature, especially on overall inputs costs and outputs of biomass energy in Cambodia. Consideration of prior environmental and economic literature, particularly from the Southeast Asia region, would have integrated well with identifying what may be beneficial for Cambodia.

Minor comments

The text has minor typos and inconsistencies (some spaces on %, Ministry- upper and lower case, CO2).

I would like to appreciate the chosen topic as it is relevant to understanding how renewable energy from biomass may contribute to livelihood, especially for local communities and with practical implications. I recommend an overall grade of very good (2).

Questions for thesis defence:

What do you think are some of the essential requirements for economic assessment (in terms of biomass inputs) to make the power generation economically viable for smallholders in Cambodia?

Based on your literature consideration, what should be the top priority for policymakers that you recommend promoting the uptake of biomass as an energy source in Cambodia?

Date	03/09/2021		Signature of Oppone	