

Review of: "The Nexus between Energy Policies and Supply: A Descriptive Evaluation of Nigeria and UK Energy Sectors"

Matheus Koengkan¹

¹ Universidade de Coimbra

Potential competing interests: No potential competing interests to declare.

Reviewer comment (R.C.): The authors need to improve the abstract. Therefore, the abstract should answer these questions about your manuscript: What was done? Why did you do it? What did you find? Why are these findings useful and important? Answering these questions lets readers know the most important points about your study and helps them decide whether they want to read the rest of the paper. Make sure you follow the proper journal manuscript formatting guidelines when preparing your abstract.

Reply:

Reviewer comment (R.C.): The introduction section requires improvement to effectively convey the following key elements:

- Clearly stated research question
- Hypothesis or research expectation
- Primary objective of the study
- Identification of the gap in the existing literature
- Explanation of the motivation behind the study
- Significance of the study
- Any novel or innovative aspects
- Distinct contribution of this study compared to previous work.

Reviewer comment (R. C.): The literature review requires improvement. The authors are expected to conduct a comprehensive DISCUSSION of the current literature and to highlight the literature gaps. Identifying the gaps in the literature will provide insight into areas that need further research due to being unexplored, under-explored, or outdated. Please ensure to consider the factors such as population/sample size, type, location, research methods, and variables/conditions when analyzing the literature.

Reply:

Reviewer comment (R. C.): The authors need to enhance the methodology section. The choice of methodology should be explained and supported with a clear justification. Additionally, it is essential to acknowledge prior studies that have employed similar methodologies.

Reply:

Reviewer comment (R.C.): The authors need to enhance the data section by providing explanations and justifications for the selected variables in the model, including the literature's perspective on these variables and references to prior studies that have used them. The reader should be given a clear understanding of these details.

Reply:

Reviewer comment (R.C.): The authors need to clarify the reasoning behind their choice of a time series between 1971-2020. Provide a justification for the use of this time frame and explain how it is relevant to their study.

Reply:

Reviewer comment (R. C.): The authors are advised to create a conceptual framework that outlines the methodology used in the study. The framework should provide a visual representation of the relationship between the various components of the study and the methodology applied. Refer to Figure 8 in the article linked (<https://doi.org/10.3390/su132413611>) for an example of a well-structured conceptual framework. This will greatly enhance the quality and clarity of the manuscript.

Reply:

Reviewer comment (R. C.): The authors are advised to add a discussion section to the paper. In this section, the authors should offer insights and interpretations that build upon the results, rather than simply restating them. The discussion should include a comparison of the findings with existing literature, and provide clear and convincing explanations for any differences or similarities. The authors should aim to engage the reader and demonstrate the significance and relevance of their work.

Reply:

Reviewer comment (R.C.): The authors need to strengthen the conclusions section by linking it to the results of the study and demonstrating how their research contributes to the advancement of current knowledge in the field. The authors should explain how their findings add value to the existing literature and provide insight into new directions for future research.

Reply:

Reviewer comment (R. C.): The authors need to create a subsection called "Policy implications". In this section, the authors will identify the shortfalls of the current policy. Where is this policy failing? why and how can your recommendations improve the status quo? Moreover, authors also need to remember that the policy actors are interested in making practical, cost-effective, and socially acceptable decisions. Therefore, before realising policy recommendations, I suggest the authors realise the following questions for themselves: What specifically needs to be changed? How will this change come about? What resources will be needed? Where will these resources come from? What is the overall benefit

to the policymakers and society?

Reply:

Reviewer comment (R. C.): The authors could create a new subsection, "Limitations and future recommendations". As you already know, the study's limitations are those characteristics of design or methodology that impacted or influenced the interpretation of the findings from your research. Study limitations are the constraints placed on the ability to generalize from the results, to describe applications further to practice, and related to the utility of findings that are the result of how you initially chose to design the study or the method used to establish internal and external validity or the result of unanticipated challenges that emerged during the study.

Moreover, future recommendations need to be based on the following aspects: (1) building on a particular finding in your research; (2) addressing a flaw in your research; examining (or testing) a theory (framework or model) either (3) for the first time or (4) in a new context, location and/or culture; (5) re-evaluating and (6) expanding a theory (framework or model).

Reply:

Reviewer comment (R. C.): The authors need urgently to improve the presentation quality of the manuscript, where the presentation of tables, figures, and organisation of the text is poor. The manuscript has the potential to be published; however, the authors need to improve the quality of the investigation. The authors need to increase the attractiveness and readability of the manuscript to have more reads and citations. In order words, the authors need to pay attention to details in all manuscripts.

Reply:

Reviewer comment (R.C.): Moderate English changes are required.

I have identified some issues throughout the text, as seen below.

Abstract

- "Nigeria has targeted to become one of the twenty strongest economies in the world by 2020 tagged as vision 20:2020" - missing article before "twenty"
- "end of 2020" - missing article before "end"
- "one of the lowest in the world" - missing article before "lowest"
- "just 15 years apart from installed electricity facility" - "apart from" is incorrect, it should be "after"
- "Nigeria's per capita consumption was 2,725.678 in 2018" - missing unit of measurement
- "Provision of this quantum of energy" - "quantum" is incorrect, it should be "quantity"
- "the basis of mutatis-mutandis" - "mutatis-mutandis" should be in italics or quotation marks to indicate it's a Latin phrase
- "are collected from 1971 – 2018" - "1971 – 2018" should be in parentheses

- "present and analyze collected data" - repeat of "collected data"

Introduction section

- "Similarly, the country has the potential of generating over 11,000 megawatts of electricity from small and large hydro while its annual solar energy availability is about 27 times that of the country's total fossil fuel resource, and it is over 115,000 times generated electrical power." (This sentence is unclear, consider rephrasing)
- "Nigeria's population is over 200 million as at end of 2019 and is projected to grow to over 401 million as of 2050 [3]." (consider rephrasing as "As of the end of 2019, Nigeria's population was over 200 million and is projected to reach over 401 million by 2050 [3].")
- "The country's increasing population in addition to its economic growth are identified as responsible for increasing energy" (consider rephrasing as "The country's increasing population and economic growth are responsible for increasing energy demand.")
- "one; meet the energy demand of its growing population; two, achieve economic growth which will ensure prosperity for all citizens, peace and stability in the country." (consider rephrasing as "one, to meet the energy demand of its growing population; two, to achieve economic growth and ensure prosperity, peace, and stability for all citizens.")

Reply: