Journal Name:	Journal of Energy Research and Reviews
Manuscript Number:	**Ms_JENRR_56953**
Title of the Manuscript:	**Forecasting Solar PV Demand Split and Fuel Wood Usage Reduction in Eriti and Oke-Agunla Villages in Nigeria**
Type of the Article	**Data Article**

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This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty'**, provided the manuscript is scientifically robust and technically sound.
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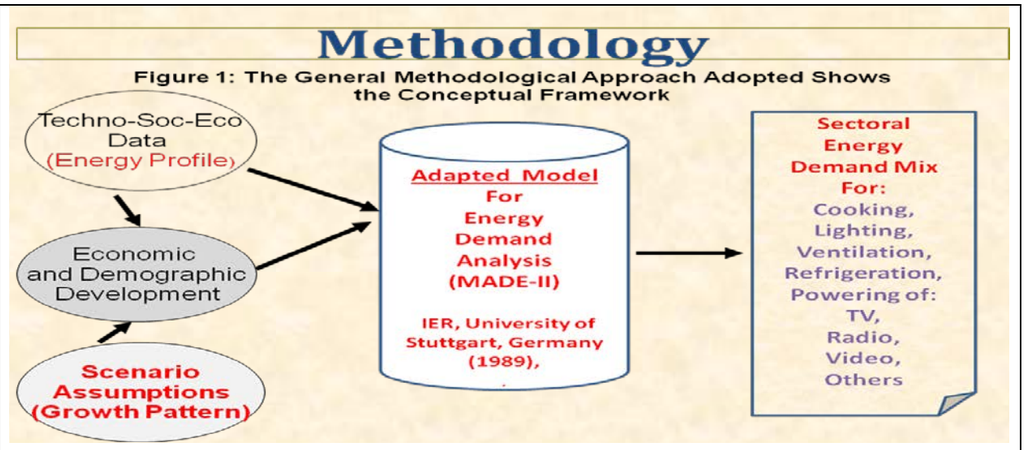
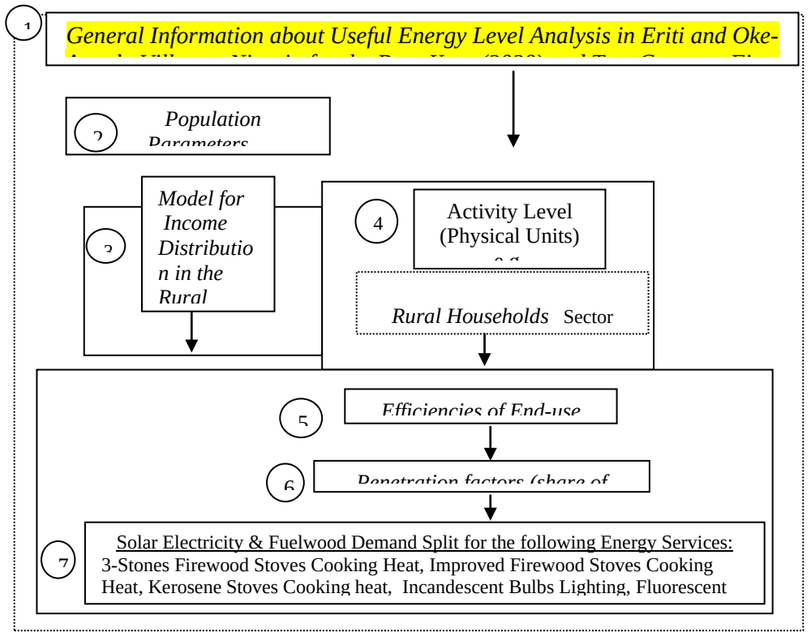
PART 1: **Review Comments**

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Compulsory REVISION comments	The study examined solar Photovoltaic demand split and fuel wood usage reduction in Eriti and Oke-Agunla villages, that were among the pilot sites for solar electrification programs in the western ecological region of Nigeria. It elicited information from 241 solar PV users, on alternative energy sources for provision of energy services using questionnaire techniques. Model for Analysis of Energy Demand (MADE-II) was used for the study. The study also adopted scenario analysis techniques widely used as scientific method for dealing with the basic inherent uncertainty about future evolution of various variables driving the energy demand. This becomes essential in evaluating available policy options for optimal future contribution of solar PV and fuel wood usage reduction in the energy mix for the study areas to achieve the second study objective. However, there are errors in the article (eg Key Woords, KWh), → Key words, kWh The article did not provide a scientific basis to build 241 interview questions. Why are there 241 questions, what is the accuracy of the selection? Need to provide a clear scientific basis	words, kWh (correction effected as appropriate in the whole document) **The study examined solar photovoltaic demand split and fuel wood usage reduction in Eriti and Oke-Agunla villages, that were among the pilot sites for solar electrification programs in the western ecological region of Nigeria. It used questionnaire techniques to elicit information in the local dialect of the respondents, on alternative energy sources for provision of energy services from each of the household's heads, representing solar PV users, in all the 371 households that constitute about 13.4 percent of the 2,778 dwellers in the two villages, for the base year 2020. Specifically, at the rate of the observed 8 dwellers per household, data were obtained from 179 respondents, out of a total of 1,434 dwellers in Eriti village. Likewise, at the rate of the observed 7 dwellers per household, data were also obtained from 192 respondents, out of a total of 1,344 dwellers in Oke-Agunla village. Model for Analysis of Energy Demand (MADE-II) was used for the study. The results revealed an insignificant 6.1% total lighting demand share for solar PV in each of the villages' total energy demand mix in 2020.** Please Note: Table 3a and 3b also show the historical (2010, 2015), the base year (2020) and the future (2025, 2030) persons per household, number of households and village population for the two villages.
Minor REVISION comments	Figure 1, need to explain each step of implementation	Figure 1 & 2, appropriately modified with further explanation provided in parahraph 2 of 2.2.0 on. Implementation steps: The conceptual framework which showed the general methodological approach of MADE-II adopted for the study was clearly highlighted in Figure 1. As presented in, Figure 2, MADE-II is made up of 7 Blocks of data in flow for demand analysis. Block 1 deal with general information about useful energy level analysis, base year (2020) and future two constant five-year periods (2025, 2030), while information on development of population is presented in Block 2 (see Tables 3a and 3b for further details). Data analysis for useful energy demand in the rural households sector is treated in Block 3 (Tables 6-9 captured the implementation of this block), while Block 4 dealt with activity level in physical units e.g. kWh/Day/Village (Tables 1, 2, 4 and 5 captured the data for block 4), Block 5 and 6 dealt with the efficiencies, penetration factors for the rural households' energy services, detailed calculations of these were presented in Tables 6 and 7. Block 7 treated the sectoral solar PV demand split for 3-Stones Firewood Stoves Cooking Heat, Improved Firewood Stoves Cooking Heat, Kerosene Stoves Cooking Heat, Incandescent Bulbs Lighting, Fluorescent Bulbs Lighting, Kerosene Lanterns Lighting, Solar Bulbs Lighting, Powering of TV, Video, Radio, Refrigeration, Fan Ventilation and Process Heat (Tables 8 and 9 summarized the implementation of block 7).

		 Figure 2: Schematic Diagram of Adapted from Model for Analysis of Demand for Energy MADE-II), IER, University of Stuttgart, Germany, 1989
Optional/General comments	This article may be published, however it is required to be revised. Especially the basis of selecting the number of interview questions, calculation methods and languages.	

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PART 2:

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	