

# CALL FOR PAPERS

## ERCE ANNUAL RESEARCH CONFERENCE 2023

**THEME:** "ENERGY REGULATION FOR SUSTAINABLE DEVELOPMENT IN EASTERN AFRICA"

19th JULY 2023 | ARUSHA, TANZANIA

The Energy Regulation Centre of Excellence Annual Research Conference 2023 will be the inaugural edition of the ERCE annual research conferences. The institution of the research conference is one of the initiatives to realize strategic objective 1 of the ERCE Strategic Plan. This objective aims to build a research powerhouse that will enhance realization of the East African Energy Union. The aim of the research conference is to pursue energy market-driven applied research projects that address the East African Community (EAC) needs in the energy sector. The conference will also promote knowledge and information sharing. This conference targets all energy stakeholders in the Eastern Africa region and beyond. These include academia, energy and petroleum regulators, utilities and individual researchers. Selected papers will be published in the Africa Journal on Energy Markets (AJEM) published by the Energy Regulation Centre of Excellence (ERCE).

**The ERCE Annual Research Conference working group welcomes high quality and original research and innovation works. The themes include, but are not limited to;**

- i. Electricity Markets
- ii. Energy regulation
- iii. Renewable Energy
- iv. Energy Efficiency
- v. Petroleum exploration opportunities
- vi. Sustainable petroleum development strategies
- vii. Environmental Health Safety and Social impacts Management in energy operations
- viii. Geopolitical influence on development of energy sector in East Africa
- ix. Energy transition
- x. Other areas with linkages to the energy
- xi. Energy & environmental issues
- xii. Petroleum (upstream & downstream)
- xiii. Policy issues

Contributions to the journal can use a range of methods, if appropriately and rigorously applied, including but not limited to experiments, surveys, econometrics, decomposition, simulation models, equilibrium models, optimization models, and analytical models.

The submitted work should not have been previously published in any journal. Authors should note that presentation of their papers at the research week will not jeopardize their future publication in journals.

The following are important dates to be noted by the authors:

No.	Deliverable	Timelines
1.	Call for Papers	13th February 2023
2.	Full paper Submission	30th April 2023
3.	Technical review and presenters' notification	12th – 15th June 2023
4.	<b>ERCE Annual Research Conference</b>	<b>19th July 2023</b>

# Review Process

Final works submitted will be reviewed by highly competent editors recognized in the EAC region energy and petroleum sectors. They will comment on the acceptability of the final paper, within 45 days of the submission deadline. If the papers have been accepted, they will be sent back to the authors, requesting them to implement the suggested revisions. The authors will have 15 days to effect the revisions. They will then be reevaluated to ascertain if the revisions have been attended to adequately. The papers may then be accepted or rejected. Papers will be rejected should they be found to be below the required standards set for this event. Such will be returned to the authors, with the comments of why they were rejected. If papers have been rejected, they will not be reevaluated.

## Submission Guidelines

The key elements of the paper should be:

- i. Title of Conference
- ii. Paper title
- iii. Names(s) of authors(s) and affiliations
- iv. Abstract
- v. Introduction
- vi. Methods
- vii. Presentation and discussion of results
- viii. Conclusion and recommendations
- ix. Acknowledgements
- x. Nomenclature
- xi. References
- xii. Appendices

The paper should be submitted in a word format. The above elements are briefly described in the following section, to provide further assistance to authors in writing, formatting and submitting their papers to ERCE.

### 1.1 Title of Conference

The conference title should be included only on the first page of the paper. The title should contain the following:

- i. Full name of conference
- ii. Conference dates (day, month, year) and location (city, country)
- iii. Should be 12 pt. boldface (Century Gothic)
- iv. Single line spacing

### 1.2 Title of Paper

The title of the paper should be concise and definitive, and should be in uppercase and should be:

- i. 12 pt. boldface (Century Gothic)
- ii. Single line spacing

### 1.3 Name of Author(s) and Affiliations

The Author(s) name should comprise:

First Name, Middle Initial, Last Name. Should be 12 pt. boldface (Century Gothic typeface).

The author affiliation should be 10 pt. (Century Gothic typeface). It should be upper- and lower-case letters and centred under the author's name. It should consist of the following and be listed in the order shown:

- i. Name of company or institution
- ii. Department or division
- iii. Mailing address
- iv. Name of city and country
- v. Phone, and e – mail

### 1.4 Body of Paper

The text for the paper should be 12 pt, 1.5 line spacing, in Century Gothic font

- i. **Text format:** Single column
- ii. **Footnotes:** Should be numbered consecutively using superscript numbers. The footnotes should be positioned, flushed to the left, at the bottom of the page in which the first reference appear. The footnotes should

## The author should take the following issues into consideration in the preparation of the paper:

### 1.4.1 Paper Outline

The author is urged to prepare a paper outline prior to writing the paper. In the outline form, the author is able to classify his ideas and organize his thoughts into a logical manner. By preparing the outline, the author can adjust and readjust his thoughts and ideas until the desired order is obtained.

### 1.4.2 Organisation

The paper should be organized into sections or logical parts. It is advisable that the primary aim of the paper is clearly spelt out at the beginning. This would enable the reader to have a good idea of the paper's objective.

### 1.4.3 Accuracy

Authors are to ensure that all the information contained in the paper is checked for accuracy and with utmost care.

### 1.4.4 Units of Measurement

Authors should use the SI units of measurements in the paper. In the event that other units are used, the SI equivalent should be given in parenthesis.

### 1.4.5 Headings and subheadings

Authors should use headings and subheadings throughout the paper to segment the subject matter into logical parts. Parts or sections may be numbered but paragraphs should not be numbered. The headings in the text should be:

- i. 12 pt. boldface (Century Gothic)
- ii. 1st Level: Upper case, flushed to the left
- iii. 2nd Level: Title case, flushed to the left

#### 1.4.6 Graphics

All the graphics in the paper such as graphs, line drawings, pictures etc. should be numbered consecutively and captioned. The caption should comprise a number and a brief title. The author should use the number when making reference to the figure in the paper. Figures can be referenced within the paper, for example as "Figure 1".

- i. The caption should be 12 pt. boldface (Century Gothic typeface)
- ii. The title or the caption should be centred below the graphic. Authors may insert the graphic as part of text, or include it on a separate page, as close as possible to its first reference.
- iii. The callouts within the graphic should be at least 9 pt.

#### 1.4.7 Tables

Authors should ensure that tables are numbered consecutively, and have a caption consisting of table number, and a brief title centred above the table. The table number should be used in the text, or included as close as possible to its first reference in the text.

- i. The caption or title should be 12 pt. boldface (Century Gothic typeface)
- ii. The callout within the table should be at least 9 pt.

#### 1.4.8 Mathematical equations

All mathematical equations used in the paper should be numbered consecutively, starting with (1). The number should be enclosed in parenthesis, and flushed to the right of the page, on the same line as the equation. Equations should be referenced in the paper as "Eqn. ( )".

#### 1.4.9 Acknowledgements

Authors may acknowledge the contributions of individuals or institutions not mentioned elsewhere in the paper.

#### 1.4.10 Nomenclature

Nomenclature should be listed in alphabetical order, with capital letters first, followed by lowercase letters.

#### 1.4.11 References

References in the text should be cited in numerical order. This should be done according to their order of appearance, with the numbered reference citation enclosed in brackets. In the event of two citations, the number could be separated by a comma, for example [3, 4].

**List of References:** All the references to original sources of cited material should be listed at the end of paper. The reference should be arranged in numerical order, in accordance with the order of appearance in the paper. As a further guide to authors, the references should be arranged in the following formats:

- a. References to journal articles and papers should comprise the following:
  - i. Last name of each author, followed by their initials
  - ii. Year of publication
  - iii. Full title of the cited article in quotes
  - iv. Issue number (if any)
  - v. Include page numbers (if possible)
- b. References to text books should follow the following format:
  - i. Author's last name, followed by initials
  - ii. Year of publication
  - iii. Full title of publications, which is italicized
  - iv. Publisher
  - v. City and country of publication
  - vi. Include page numbers (if possible)
- c. Reference to conference papers or papers compiled in conference proceedings should be in following format:
  - i. Last name of each author, followed by initials
  - ii. Year of publication
  - iii. Full title of cited paper in quotes
  - iv. Paper number (if any)

Full title of the publications (italicized) editor's initials, followed by last name, and followed by the abbreviation "eds"

  - vi. Publisher
  - vii. City and country of publication
  - viii. Volume number (if any)
  - ix. Page number of work being cited (e.g., "pp.")
- d. References to technical reports should be in the following format:
  - i. Last name of each author, followed by initials
  - ii. Year of publication
  - iii. Full title in quotes
  - iv. Report number (if any)
  - v. Publisher
  - vi. Institution name, city and country of publication

# Research Paper Format

The format for the research paper will be written to contain or at least reflect the following sections:

## Chapter One

### Introduction

#### 1.1 Background

The report should start by giving a bigger picture of the problem. It should capture the global issue, then, in an inverted pyramid kind of method, narrow down to the specific problem to be addressed.

This section should achieve three things:

- i. Familiarizing the reader with the problem at hand
- ii. Making one understand why it needs to be solved
- iii. Making the reader understand that the study report presents findings that will provide solutions to the problem

#### 1.2 Statement of the Problem

The statement of the problem should state the issues of concern the researcher will be addressing in the study. It is a consolidation of the build-up of the problem articulated in the background section. It states the gap and what needs to be done to address it. This might take two or three paragraphs.

#### 1.3 Research Purpose

A declarative statement that identifies the goal of the study. This should be one sentence.

#### 1.4 Objectives

Research objectives should be in point form and they should be geared towards solving the problem discussed in the background section.

#### 1.5 Research Questions or Hypotheses

These are drawn from the specific objectives. For example:

- i) "How does the inflation rate affect stock price movements?" and not "does inflation rate affect stock price movement?"
- ii) "What is the relationship between juvenile delinquency and family background?"

#### 1.6 Significance of the Research

This addresses in what ways the findings of the research will solve a social/economic/technical or academic problem. It answers the following questions:

- i) To whom is the study important?
- ii) Why is the study important?
- iii) What benefits will be derived from the study?

#### 1.7 Scope

This addresses the boundaries of the research in terms of time, cost and geography.

#### 1.8 Delimitation of the Study (Optional)

#### 1.9 Limitations of the Study

This addresses the constraints which may limit the universal application or conclusions of the findings.

The researcher should identify them and demonstrate how they will be mitigated.

#### 1.10 Assumptions of the Study (Optional)

## Chapter Two

### Literature Review

This section comprises of relevant theoretical and empirical reviews. Both reviews should be related to the objectives of the research. Theoretical review may include definitions of concepts related to the research, linkages between the variables and underlying theoretical concepts. The literature must be relevant and arranged from global to local, general to specific.

Empirical review consists of a critical analysis of past researches in the area. This is mostly drawn from peer-reviewed journals. At a minimum such a review should deliberate on the objectives, methods, results and conclusions of the journal. Further, it should point out the gaps in the research.

## Chapter Three

### Research Methods

This section should be clear enough to assist other researchers carry out the same activities and come out with the same results. It ensures that the work can pass the test of reproducibility, reliability and validity

#### **This section must include:**

- i. Description of the type of study used
- ii. Description of the study population
- iii. Description of the method used to sample the subjects to be evaluated
- iv. Description of the method used to obtain the sample size
- v. Description of the sample size
- vi. Description of the data collected (primary or secondary)
- vii. Description of the data collection tools (interview guide, questionnaire, and data measurement tools like power meters). These must be appended in the report. For technical tools used, error analysis must be presented.
- viii. Description of the data collection process. The report should detail the process in terms of how the subjects were reached at and how many days the process took.
- ix. Description of the method used to analyze and present the data. Data analysis would include use of descriptive statistics, inferential statistics, document analysis and testing of hypothesis.

#### **Where applicable, it should have the following sections:**

- 3.1 Research Design
- 3.2 Research Site/Study Area (Optional)
- 3.3 Target Population
- 3.4 Research Sample
  - 2.4.1 Study Sample Size
  - 2.4.2 Sampling Procedure
- 3.5 Data Collection
  - 2.5.1 Data Collection Instruments
  - 2.5.2 Pilot Testing of Research Instruments
  - 2.5.3 Instrument Reliability
  - 2.5.4 Instrument Validity
  - 2.5.5 Data Collection Procedure
- 3.6 Data Analysis
- 3.7 Legal and Ethical Considerations

## Chapter Four

### Data Analysis, Findings and Discussion

**4.1** Presentation of Research Analysis and Findings .It may adopt, where applicable, the following structure;

- 3.1.1** Objective One
- 3.1.2** Objective Two
- 3.1.3** Objective Three
- 3.1.4** Objective Four

### **4.2 Discussions**

This can still be combined with presentation of the findings.

The researcher offers his voice on the findings, discussing them as per the objectives.

- 4.2.1** Objective One
- 4.2.2** Objective Two
- 4.2.3** Objective Three
- 4.2.4** Objective Four

When presenting results, especially in quantitative based studies, the following should be observed:

- i. Tables should be numbered. Before using a table, it must be introduced, and then after it has been shown, a discussion of the contents should follow.
- ii. The same should apply for figures. Figures must be introduced in a sentence format, then after they have been shown, a discussion should follow.
- iii. In this section, the author should strictly focus on reporting the results, without giving his expert opinion.

## Chapter Five

### Conclusions and Recommendations

#### **5.1 Conclusions**

This section should give concluding remarks about the study findings. These should address every objective.

#### **5.2 Recommendations**

The recommendations should address every objective. As per the findings and discussion, the author should recommend areas for further study and, if possible, solutions to the problems identified

### **References**

### **Appendices**

**Appendix 1** - Questionnaires

**Appendix 2**- Research Permits and Approvals

## Submission Contact Details

Researchers responding to this call can submit their research papers by sending an email to [erce@energyregulators.org](mailto:erce@energyregulators.org)

