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REVIEWER'S REPORT

Manuscript No.: IJAR-54001 Date: 25-09-2025

Title: VERS UNE EFFICACITE ÉNERGETIQUE UNIVERSITAIRE EN AFRIQUE DE L\'OUEST : ÉTUDE MIXTE ET MODELISATION STRUCTURELLE A L\'UNZ-KOUDOUGOU.

Recommendation:	Rating _	Excel.	Good	Fair	Poor
Accept as it is	Originality		⋖		
Accept after minor revision	Techn. Quality			8	
Accept after major revision	Clarity		</td <td>-</td> <td></td>	-	
Do not accept (Reasons below)	Significance		<		

Reviewer Name: Mr.Bilal Mir

Reviewer's Comment for Publication:

1. Summary

This manuscript investigates energy efficiency determinants in Sub-Saharan African universities, using a mixed-methods approach at the University Norbert Zongo (UNZ) in Burkina Faso. The study combines a quantitative survey of 155 users with 41 semi-structured interviews and incorporates energy audits and structural equation modeling (SEM) to explore the relationships between awareness, attitudes, behaviors, and organizational factors.

Key findings include:

- A notable gap between high energy awareness (3.87/5) and actual energy-saving practices (3.21/5).
- A potential 35–55% reduction in energy consumption through technical optimization and behavioral interventions.

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- Identification of four user typologies, including 28.4% "conscious-passive" users with high mobilization potential.
- Critical weaknesses in institutional energy governance and a "compensation energy" phenomenon in the Sahelian context.

The study emphasizes the need for holistic approaches combining technical, organizational, and behavioral strategies to improve energy efficiency in African universities.

2. Strengths

- 1. **Originality and Relevance:** Addresses a significant research gap on energy efficiency in African higher education institutions.
- 2. **Methodological Rigor:** Uses a robust mixed-methods design, integrating quantitative surveys, qualitative interviews, energy audits, and SEM.
- 3. **Comprehensive Data Collection:** Adequate representation of different user categories and thorough analysis of energy consumption patterns.
- 4. **Clear Practical Implications:** Offers actionable insights for institutional policy and energy management.
- 5. **Integration of SEM:** Provides strong evidence for causal relationships between awareness, attitudes, behaviors, and institutional factors.

The manuscript makes a significant contribution to the literature on energy efficiency in African universities. With minor revisions addressing SEM reporting, practical implementation guidance, and language clarity, the paper is suitable for publication.