

REVIEWER'S REPORT

Manuscript No.: IJAR-58379

Title: Evaluation du potentiel solaire des régions naturelles de la Guinée.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		X		
Techn. Quality			X	
Clarity			X	
Significance			X	

Reviewer Name : Dr.Edmond Zeneli

Detailed Reviewer's Report

The manuscript investigates the solar potential of Guinea's four natural regions using observations from the National Meteorological Agency's automatic weather station network deployed in 2023. The topic is timely and relevant because reliable assessments of solar resources are essential for renewable energy planning in West Africa. The study is also valuable because it utilizes recently established ground-based observations, which remain limited in the region.

The methodology section is insufficiently detailed for reproducibility.

Important information is missing, including:

- solar radiation sensor model
- sensor accuracy
- calibration procedures
- quality-control procedures, etc.

Although MATLAB is mentioned, the processing algorithms are not described

Some main issues observed:

- One-year observation period.
- Insufficient methodological detail.
- No uncertainty analysis.
- No statistical testing.
- No external validation.
- Discussion lacks depth.

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

Conclusion:

This manuscript addresses an important and underexplored topic with practical significance for renewable energy development in Guinea. The use of newly deployed meteorological observations is a notable strength. However, the current version does not yet provide sufficient methodological transparency, statistical rigor, or critical discussion to support its conclusions. A substantially revised manuscript that addresses the methodological, analytical, and presentation issues identified above could make a valuable contribution to the literature on solar resource assessment in West Africa.