

REVIEWER'S REPORT

Manuscript No.: IJAR-59428

Title: Smart Grid Strategies for Improving Reliability and Operational Efficiency of Saudi MV/LV Distribution Systems.

Recommendation:

Accept as it is
 Accept after minor revision.....
 Accept after major revision
 Do not accept (*Reasons below*)

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

Reviewer Id: JPR-386

Reviewer's Comment for Publication.

The manuscript addresses an important and timely topic concerning the modernization of Saudi Arabia's medium-voltage and low-voltage distribution systems. It provides a well-organized integrative review of smart-grid strategies, including advanced metering infrastructure, distribution automation, fault detection and service restoration, active voltage management, distributed energy resources, battery storage, electric vehicle charging, and cybersecurity. The proposed integrated framework and staged implementation roadmap are particularly valuable, as they connect technical solutions with measurable reliability and operational efficiency indicators. The discussion of Saudi-specific challenges and the need for field validation strengthens the practical relevance of the study.

However, minor revisions are recommended. The authors should improve the presentation and readability of Figures 1 and 2 and Tables 1 and 2. The review methodology would benefit from additional details about the literature search sources and search terms to improve reproducibility. The authors should also ensure consistent terminology, correct minor grammatical and formatting issues, and clearly distinguish findings supported by existing studies from proposed implementation recommendations. Finally, the references and DOI links should be checked for bibliographic accuracy and consistency.

Overall, the manuscript is relevant, technically informative, and suitable for publication after minor revision.