

Peer Review

Review of: "Dynamic and Power-Quality Impacts of High Photovoltaic Penetration on Distribution Feeders That Static Load-Flow Studies Overlook"

V Balaji¹

1. Electronics and Communication Engineering, RMK Engineering College, Gummidipoondi, India

Dear Editor,

I have carefully reviewed the manuscript entitled "Dynamic and Power-Quality Impacts of High Photovoltaic Penetration on Distribution Feeders That Static Load-Flow Studies Overlook." The paper is timely, well-structured, and addresses an important gap in PV hosting-capacity research.

The authors provide a clear and thorough literature review, highlighting the limitations of static load-flow studies and emphasizing the importance of dynamic variability and harmonic distortion. The analytical backbone, including the voltage-rise approximation and worked examples, is strong and well-presented. The comparative analysis of selected studies adds credibility and context.

I recommend acceptance after minor revisions. Specifically, the authors could:

Expand the harmonic analysis with more quantitative detail and practical filtering strategies.

Provide a consolidated table clarifying penetration definitions across studies.

Enhance the visual presentation with additional schematic diagrams.

Strengthen the conclusion by suggesting specific future research directions.

Overall, this manuscript makes a valuable contribution to the field and will be of interest to both researchers and practitioners.

Declarations

Potential competing interests: No potential competing interests to declare.