View Reviews

Paper ID
385

Paper Title
An Island Threshold Setting Technique using Branch Current from PMU of a Hybrid Distribution System

Track Name
IEEEETFG2023 - Stage Two (New Submission Only)

Reviewer #1

Questions

1. Is the paper within the scope of the conference
Yes

2. Novelty of the paper
Satisfatory

3. The concepts are presented well enough and the contributions are highlighted clearly
Yes

4. Proper literature review and Proper citation of references
Satisfactory

5. Proper organization of the paper and clarity of written text, figures and equations
Marginal

6. Validation of results/Usefulness to Practicing Engineers
Marginal

7. It is highly recommended that reviewers give comments/suggestions (at least 100 words) to improve the paper for resubmission.
Dear Authors,
Some of my concerns are listed below:
1) Kindly provide a reference for the 16-bus hybrid distribution system, offering readers insight into its source.
2) Regarding Figure 1, consider using standard symbols to depict the single-line diagram rather than incorporating the Power World Simulator model.
3) Could you explain the presence of an additional line at Utility – 2 bus aside from the transmission line connected to Utility – 1, Utility – 3, Bus-DG_Utility-1, and the load?
4) Ensure correct usage of units, such as 'km' instead of 'Km' and 'kV' instead of 'KV'.
5) To enhance clarity, consider presenting the results in a comparative tabular format, allowing for a more straightforward interpretation of all cases.
The submitted manuscript requires improvement in formatting. Some of the general comments are:
1) In the last sentence of the first paragraph of Section II(B), there is a spelling error in 'Branch Current'.
2) Ensure that the font type and size used in Figure 2 are consistent with the text of the manuscript.

Reviewer #2

Questions

1. Is the paper within the scope of the conference
Yes

2. Novelty of the paper

Good

3. The concepts are presented well enough and the contributions are highlighted clearly

Yes

4. Proper literature review and Proper citation of references

Good

5. Proper organization of the paper and clarity of written text, figures and equations

Satisfactory

6. Validation of results/Usefulness to Practicing Engineers

Good

7. It is highly recommended that reviewers give comments/suggestions (at least 100 words) to improve the paper for resubmission.

This paper proposes a method to set the islanding threshold using branch current data from PMUs in a hybrid distribution system with different types of DGs. The paper considers five islanding scenarios and claims that the proposed method can determine the threshold value for each case and identify the branch with the highest impact from islanding. However, the paper has some limitations and weaknesses that need to be addressed, such as not providing a clear definition of critical power imbalance conditions and not comparing the proposed method with other existing methods.