Qeios

Peer Review

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

Suleyman Adak[1]

1. Electricity and Energy, Mardin Artuklu University, Turkey

The manuscript proposes "Dynamic and Power-Quality Impacts of High Photovoltaic Penetration on Distribution Feeders That Static LoadFlow Studies Overlook"

The reviewer's concerns are as follows:

1- The novelty of this study is not clear. Clearly define the novelty and contribution of the paper in the introduction.

2-Were inverter control functions (Volt-VAR, Volt-Watt, frequency support, etc.) considered? If not, why?

3- Which software platform was used for simulations, and why was it selected?

4-Which power-quality indices were evaluated (voltage fluctuation, flicker, THD, harmonic distortion, unbalance, frequency deviation, etc.)?

5- Authors have not provided sufficient comparison between their proposed methodology and the previous ones in the introduction. According to the current introduction, there is no contribution in the current study.

6-How do rapid PV output variations influence feeder voltage stability?

7- The number of references should be increased.

Declarations

Potential competing interests: No potential competing interests to declare.

doi.org/10.32388/565NG1