



All



ADVANCED SEARCH

Conferences > 2023 International Conference... ?

Design and Implementation of a Damping Controller in Microgrids

Publisher: IEEE

Cite This

PDF

Harshini Panda ; Pradeep Kumar Sivakumar All Authors

15 Full Text Views



Alerts

Manage Content Alerts Add to Citation Alerts

Abstract



Document Sections

- I. Introduction
- II. Literature review
- III. Proposed method
- IV. Results And Discussions
- V. Conclusion

Abstract:

The power generation and distribution sectors observe high-level penetration of Renewable Energy Sources (RESs) and Distributed Generators (DGs) due to several factors su... **View more**

Metadata

Abstract:

The power generation and distribution sectors observe high-level penetration of Renewable Energy Sources (RESs) and Distributed Generators (DGs) due to several factors such as perpetual energy demand, nature of sources and load. Nevertheless, more specifically, the direct current (DC) micro grid is getting more attention over the conventional alternating current (AC) Micro rid for several benefits; for example, higher efficiency and reliability. This research work focus on three aspects the first one to design phase shift full bridge DC-DC converter with and discuss with various optimization techniques for implementing the Micro Grid. The second aspects to validate to implemented the Enthalpy Sigmoid Neuro-Fuzzy crowbar control using DFIG for power oscillation damping. The third aspects to analysis and implementation of a damping controller with renewable energy sources. The advantages and disadvantages of different protection and planning approaches are explained in detail. The effectiveness for the proposed strategy is proved.

Published in: 2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT)

Date of Conference: 20-21 October 2023

DOI: 10.1109/EASCT59475.2023.10392835

Date Added to IEEE Xplore: 22 January 2024

Publisher: IEEE

Authors

Figures

References

Keywords

Metrics

More Like This



► ISBN Information:

Conference Location: Bengaluru, India

 Contents
I. Introduction

The world's consistently expanding energy interest, the electrical business is unavoidably faced with the advancement of significant expense power plants, transmission and circulation organizations, just as ecological difficulties, and environmental change. Renewable energy resources (RESs) and distributed generation (DG) are two innovative and effective solutions to this issue. These new resources have the potential to improve the dependability of power delivery to customers while also lowering transmission and sub-transmission line congestion and power loss. The advantages of renewable energy sources have prompted power grid planners to include them into their designs and to broadly deploy Micro-Grids (MGs) [1].

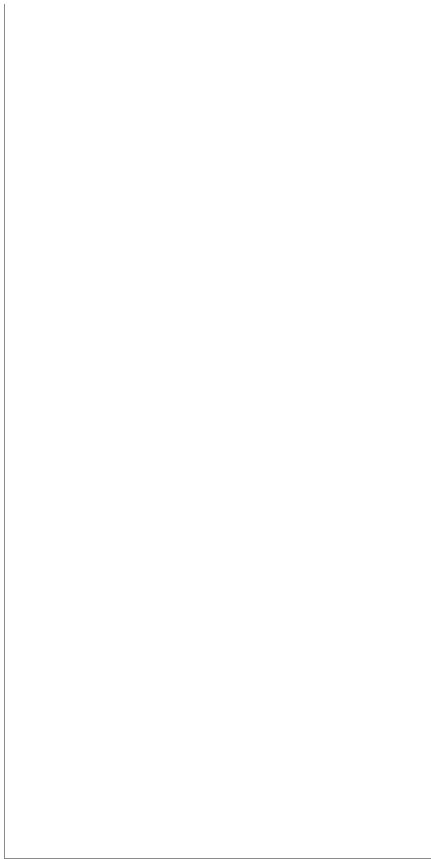
Authors	▼
Figures	▼
References	▼
Keywords	▼
Metrics	▼

More Like This

Vector Control Strategy to Control Active and Reactive Power of Doubly Fed Induction Generator Based Wind Energy Conversion System
2018 2nd International Conference on Trends in Electronics and Informatics (ICOEI)
Published: 2018

Reduced Order Model Based Optimal Oscillation Damping Controller Design for Doubly Fed Induction Generator (DFIG) Integrated Power Grid
2018 IEEE Industry Applications Society Annual Meeting (IAS)
Published: 2018

Show More



IEEE Personal Account

CHANGE
USERNAME/PASSWORD

Purchase Details

PAYMENT OPTIONS
VIEW PURCHASED
DOCUMENTS

Profile Information


COMMUNICATIONS
PREFERENCES
PROFESSION AND
EDUCATION
TECHNICAL INTERESTS

Need Help?

US & CANADA: +1 800
678 4333
WORLDWIDE: +1 732
981 0060
CONTACT & SUPPORT

Follow



[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [IEEE Ethics Reporting](#)  | [Sitemap](#) | [IEEE Privacy Policy](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2024 IEEE - All rights reserved, including rights for text and data mining and training of artificial intelligence and similar technologies.

IEEE Account

- » Change Username/Password
- » Update Address

Purchase Details

- » Payment Options
- » Order History
- » View Purchased Documents

Profile Information

- » Communications Preferences
- » Profession and Education

» Technical Interests

Need Help?

» **US & Canada:** +1 800 678 4333

» **Worldwide:** +1 732 981 0060

» Contact & Support

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [Sitemap](#) | [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2024 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.