

Impact of DG on Electrical Distribution Network Under Contingency Conditions

Publisher: IEEE

Cite This

PDF

Rudresh B. Magadam ; Sateesh N. Dodamani ; Vireshkumar Mathad ; Onkar B. Heddurshetti All Authors

2 Cites in Papers

35 Full Text Views

Alerts

Manage Content Alerts

Add to Citation Alerts

Abstract

Document Sections

» Nomenclature

I. Introduction

II. Methodology

III. Results and Discussions

» Iv.conclusion

Authors

Figures

References

Citations

Keywords

Metrics

More Like This

Download PDF

Abstract:In today's world, electric utilities are facing many challenges and issues such as rise in electricity demand, poor voltage regulation, lack of investment towards up-grad... **View more**

► Metadata

Abstract:

In today's world, electric utilities are facing many challenges and issues such as rise in electricity demand, poor voltage regulation, lack of investment towards up-gradation of electric infrastructure, poor power quality, unscheduled load shedding etc. The conventional energy sources are the major contributors [up-to 60 to 70%] to meet the present load. Thermal power plants are the foremost power provider in meeting the energy demand. The exponential increase in fuel and coal costs, environmental concerns thermal power plants are losing interest. The non conventional energy sources are gaining attention and playing key role in diminishing above mentioned issues. In this paper, performance of electrical distribution network is tested with and without DG under contingency conditions. The proposed algorithm is tested on seven bus network to verify the most favourable location and size of the DG to boost the overall enhancement of the network performance.

Published in: 2021 5th International Conference on Electronics, Communication and Aerospace Technology (ICECA)

Date of Conference: 02-04 December 2021**DOI:** 10.1109/ICECA52323.2021.9676028

Date Added to IEEE Xplore: 20 January 2022**Publisher:** IEEE

► ISBN Information:

Conference Location: Coimbatore, India

Rudresh B. Magadum
E&E Dept., KLS-GIT, Belagavi

Sateesh N. Dodamani
E&E Dept., KLS-GIT, Belagavi

Vireshkumar Mathad
E&E Dept., JCE, Belagavi

Onkar B. Heddurshetti
E&E Dept., HIT-Nidasoshi, Belagavi

☰ Contents

Nomenclature
Distributed Generation

Sign in to Continue Reading

Authors



Rudresh B. Magadum
E&E Dept., KLS-GIT, Belagavi

Sateesh N. Dodamani
E&E Dept., KLS-GIT, Belagavi

Vireshkumar Mathad
E&E Dept., JCE, Belagavi

Onkar B. Heddurshetti
E&E Dept., HIT-Nidasoshi, Belagavi

Figures



References



Citations



Keywords



Metrics



More Like This

- Analysis of the Impact of Reactive Power Compensation on the Electric Power Quality of the LV Consumers in Distribution Networks of Various Characteristics

2022 45th Jubilee International Convention on Information, Communication and Electronic Technology (MIPRO)

Published: 2022
- Planning and Optimal Routing of Distribution Network Considering to Improve Power Quality of System

2022 12th Smart Grid Conference (SGC)

Published: 2022

Show More

IEEE Personal Account

CHANGE
USERNAME/PASSWORD

Purchase Details

PAYMENT OPTIONS
VIEW PURCHASED
DOCUMENTS

Profile Information

COMMUNICATIONS
PREFERENCES
PROFESSION AND
EDUCATION

Need Help?

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

Follow

f @ in v

[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.

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.