Optimal Load Scheduling Strategies in Micro-Grid with Highly Resistive Lines: A Case Study in Lock-Down Periods

Publisher: IEEE

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Metadata

Abstract:
Micro-Grid (MG) has several advantages during the COVID-19 pandemic or we can say MG deals with this situation more effectively in several aspects. During this pandemic, most of the heavy load tripped off, however, the conventional grid can supply but if distributed generator (DG) has sufficient apparent power then grid forming mode can be deployed. The formation of MG with short-distance is not effective with the conventional droop control method due to the high R/X ratio. In this paper, a simple case study of a lockdown situation has been presented. Furthermore, this situation is analyzed with two strategies. An economic comparison of the previous two cases is presented. In both comparisons, the islanding mode provides better results. However, our study shows much better results in economical aspects as compared to the technical.

Published in: 2022 6th International Conference on Trends in Electronics and Informatics (ICOEI)

Date of Conference: 28-30 April 2022

INSPEC Accession Number: 21859994

Date Added to IEEE *Xplore*: 24 May 2022

DOI: 10.1109/ICOEI53556.2022.9776732

ISBN Information:

Publisher: IEEE

Conference Location: Tirunelveli, India

Contents