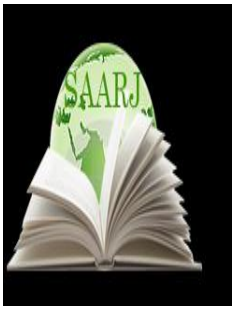
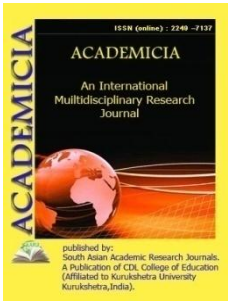


ACADEMICIA
An International Multidisciplinary Research Journal
(Double Blind Refereed & Peer Reviewed Journal)



DOI: 10.5958/2249-7137.2021.02098.X

THE OVERVIEW OF THE LOAD DISTRIBUTIONMETHODS IN POWER SYSTEM

Mr. Jitendra Kumar Singh Jadon*; Dr. Aniket Kumar; Mr. Mohd Ahamad*****

[1, 2, 3]School of Electronics,
Electrical & Mechanical Engineering, Faculty of Engineering and Technology,
Shobhit Institute of Engineering and Technology,
(Deemed to be University), Meerut, INDIA
Email id: [1]jitendra@shobhituniversity.ac.in, [2]aniket.kumar@shobhituniversity.ac.in
[3]mohd.ahamad@shobhituniversity.ac.in

ABSTRACT

There are different conventional load shedding approaches, such as under frequency control, but these have a slower response and are unreliable in correctly sharing load in the event of any disruptions or faults. This leads to a rise or decrease in loads, leading to a failure to satisfy the demand for electricity. The paper, titled Intelligent Load Shedding, focused on a more modern approach to load shedding. From the perspectives of architecture, engineering, implementation, and operation, a thorough comparison of traditional versus intelligent load shedding systems was conducted. It has been demonstrated that the intelligent process of load shedding overcomes all of the disadvantages of traditional approaches, is highly efficient, and requires very little maintenance.

KEYWORDS: *Traditional Load Shedding, Intelligent Load Shedding, Frequency Relay, Programmable Logic Controller, Power System Monitoring, Power System Simulation, Traditional Load Shedding, Intelligent Load Shedding, Frequency Relay, Programmable Logic Controller*

REFERENCES

1. T. Klingler, “Sharing the load,” *J. Libr. Adm.*, 1999, doi: 10.1300/J111v26n03_06.

2. T. McCormack, E. Karaikovic, and R. W. Gaines, “The load sharing classification of spine fractures,” *Spine (Phila. Pa. 1976).*, 1994, doi: 10.1097/00007632-199408000-00014.

3. M. N. Marwali, J. W. Jung, and A. Keyhani, “Control of distributed generation systems - Part

II: Load sharing control," *IEEE Trans. Power Electron.*, 2004, doi: 10.1109/TPEL.2004.836634.

4. R. Majumder, "Modeling , Stability Analysis and Control of Microgrid .," *Control*, 2010.

5. H. Han, X. Hou, J. Yang, J. Wu, M. Su, and J. M. Guerrero, "Review of power sharing control strategies for islanding operation of AC microgrids," *IEEE Trans. Smart Grid*, 2016, doi: 10.1109/TSG.2015.2434849.

6. J. M. Guerrero, L. García de Vicuña, J. Matas, M. Castilla, and J. Miret, "Output impedance design of parallel-connected UPS inverters with wireless load-sharing control," *IEEE Trans. Ind. Electron.*, 2005, doi: 10.1109/TIE.2005.851634.

7. C. K. Sao and P. W. Lehn, "Control and power management of converter fed microgrids," *IEEE Trans. Power Syst.*, 2008, doi: 10.1109/TPWRS.2008.922232.