Abstract

This paper Describe a feasible operation of micro grid. The micro grid is the combination of multiple distributed generators to solve global warming problems by reducing carbon dioxide emission in the electricity generation field had led to increasing interest in micro grids (MGs), particularly those containing the renewable sources such as solar and wind generation are widely used in actual practice due to easy availability of renewable source of energy. A Microgrid model, simulated on Matlab/Simulink software, is analyzed Due to wide use of these in isolated micro grid. This paper describe the new method of micro grid controlling Strategy introduced using Fuzzy-PI controller Algorithm using this technique the Islanded micro grid over come fluctuation problem the controller aims to optimize the better operation of micro grid central controller during the Islanded mode i. e. maximize the performance of micro grid. The developed operational algorithms are applied to the micro grid similarly the controller increases the performance of active power, variable frequency, phase angle, better synchronization the practical results are provided to validate the control scheme using PI- fuzzy-PI controller algorithm


**Index Terms**

Computer Science  
Electronics

**Keywords**

BESS  DG  Microgrid  MCC  IED/STS  EPS