Abstract

The usage of renewable energy sources (RES) to meet demand for electrical energy is acquiring attention as solution to the problem where lack of electrical energy occurs. Application of RES in electricity generation system is done in many configurations as compared to others in microgrid system. Various advantages from user as well as from electric utility provider are provided by implementation of microgrid system. Microgrid offers lots of advantages such as power quality is better, more environments friendly so development of
microgrid is carried out in various countries. Microgrid development is related to microgrid architecture, control system, protection system and technology generation. In this paper various technological developments regarding microgrid system and case study for development in microgrid system with the use of grid tie inverter (GTI) is reviewed. Implementation of microgrid system is done using GTI, transfer of power occur from GTI to grid when GTI has excess power and when power shortage is there grid supplies power to GTI.

References

- P. Degobert, S. Kreuawan and X. Guillaud "Micro grid powered by photovoltaic and micro turbine", ICREPQ’06, 2006

Index Terms

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Microgrid Architecture  Microgrid  Microgrid Technology  Grid Tie Inverter (gti)