

## Effect of DG Installation in Distribution System for Voltage Monitoring Scheme

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**Abstract :** Loss minimization is a long progressing issue mainly in distribution system. Nevertheless, its effect led to temperature rise due to significant voltage drop through the distribution line. Thus, compensation scheme should be proper scheduled in the attempt to alleviate the voltage drop phenomenon. Distributed generation has been profoundly known for voltage profile improvement provided that over-compensation or under-compensation phenomena are avoided. This paper addresses the issue of voltage improvement through different type DG installation. In ensuring optimal sizing and location of the DGs, predeveloped EMEFA technique was made to be used for this purpose. Incremental loading condition subjected to the system is the concern such that it is beneficial to the power system operator.

**Keywords :** distributed generation, EMEFA, power loss, voltage profile

**Conference Title :** ICEET 2014 : International Conference on Electrical Engineering and Technology

**Conference Location :** Penang, Malaysia

**Conference Dates :** December 16-17, 2014