

## **OPTIMAL LOCATION AND RATING OF CAPACITOR BANKS ON RADIAL DISTRIBUTION FEEDER**

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### **Abstract**

In this paper, the optimal location and rating of shunt capacitor banks on a 11 kV radial distribution feeder is determined, so that the total power loss in a distribution system is minimized. It is determined by realistic representation of a feeder containing a number of line segments with a combination of uniformly distributed loads along the feeder and a lumped load at the end of the feeder; finally it is applied to a practical distribution feeder.

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**Keywords:** Radial Distribution System, Power loss, Normalization, Compensators and Optimal Location and rating.