

Review on Power Distribution Planning in the Modern Power Systems: Methods

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Abstract: *In recent years, a large amount of study work has been dedicated to determining how contemporary power distribution systems might be designed to be as efficient as possible. The purpose of power distribution planning, often known as PDP, is to build the distribution system in such a way that it can promptly satisfy the demand increase in the most reliable, cost-effective, and secure manner that is feasible. During the planning process, it is necessary to take into account not only the influence of active demand and distributed generation but also the increasing benefits of their respective control as a result of the progressive transition of the distribution grid from a passive to an active state. In recent times, a number of different solutions to the contemporary PDP issue have been put up for consideration. In this work, an overview of the most recent and cutting-edge solutions that have been applied to the current PDP issue is presented.*

Keywords: PDP Problems, Economical, Reliable, Safe, Grid

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