

Analysis of a 132kV/11kV/415V substation and load flow assessment of different buses within the distribution network.

Abstract

This project presents a comprehensive study of a 132kV/11kV/415V substation and performs a load flow analysis of various buses in the distribution network. The study aims to understand the operational characteristics, design, and components of a high-voltage substation, including transformers, circuit breakers, busbars, and protection systems. Additionally, the project focuses on analyzing the power flow in the distribution network to determine voltage levels, power losses, and load distribution across different buses. The findings provide insights into optimizing power distribution, minimizing losses, and enhancing the reliability of the electrical network.

Academic Project Requirements:

1) Required No. of student(s) for academic project: 1

2) Name of course with branch/discipline: B.E./B.Tech. Electrical

3) Academic Project duration:

(a) Total academic project duration: 6 Weeks

(b) Student's presence at IPR for academic project work: 2 Full working Days per week

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