

ABSTRACT

Name : Atika Wulandari
Study Program : Teknik Elektro
Title : ANALYSIS OF THE PADAYUNGAN FEEDER
DISTRIBUTION SYSTEM AT THE TASIKMALAYA
SUBSTASION

Not all energy generated can reach consumers because some of the energy is lost when distributed to consumers in the form of power losses. In the Padayungan feeder at the Tasikmalaya Substation, an analysis of the calculation of power losses and the voltage drop was carried out to determine the value of the power losses and voltage drop and whether they are still under the standard or not. After calculating the power losses and voltage drop, the results of the power losses in the R phase are 6566,824 Watt or 0,88% and a voltage drop of 262,02 Volt or 1,31%. Power losses in the S phase are 6008,348 Watt or 0,85%, and a voltage drop of 257,36 Volt or 1,29%. Power losses in the T phase are 5291,314 Watt or 0,79% and a voltage drop of 243,48 Volt or 1,22%. Where from the results of the analysis of the calculation of power losses and voltage drop in the Padayungan feeder, it is still under SPLN 1 : 1995, that is, the allowable limit for decreasing or increasing the voltage is -10% and +5%.

Keyword : Losses, Voltage Drop.