

ABSTRAK

Electricity quality problems are getting more attention lately, where in modern times the use of electronic goods is increasing. One aspect of the decline in the quality of electric power is energy efficiency, thus the quality of electric power is one of the parameters of energy savings. Analyzing the quality of electric power is one strategy to prevent failures in the electrical system. By knowing the quality of electrical power such as changes in current, voltage changes, and changes in building frequency, it can facilitate the improvement of the electrical system in the building.

With this the author conducts research with the title "Analysis of the Quality of Electric Power Unires Putri Building Muhammadiyah University of Yogyakarta" using the Power Analyzer Metrel 2892-B. The results of this study indicate that the measurement of THD with the highest value for the R phase 286,240 watts, THD for the S phase 238,805 watts, THD phase T 281,742 watts, THD phase N 151,078 and the Power Shortage of 957,864 watts due to capacity measurement imbalances. Based on the results of the study of the quality of electric power in the Yogyakarta Uniersitas Muhammadiyah University Unires Building are some aspects that are not in accordance with IEEE 192.1992 standards.

Keywords: Efficiency, Electric power quality, Harmonics.