ABSTRACT

The monitoring system on campus electricity usage makes it easy to check the electricity used in the building, whether the building is in the high expenditure or low expenditure category. This system also aims to make it easier for logisticians to check without having to do it manually for each kWh meter. This application is of course used to analyze electricity usage data using the data grouping method with the BIRCH (Balanced Iterative Reducing and Clustering using Hierarchies) algorithm. This final project focuses on creating a monitoring / monitoring web that can display information about the details of electricity expenditure in each building, and also displays the results of clustering data using the BIRCH algorithm with accuracy results 0.77 and it is including a strong structure

***Keywords*:** *Web monitoring, BIRCH Clustering*