

## **Abstract**

Based on data from the Ministry of Energy and Mineral Resources, Indonesia's 2017 electricity consumption reaches 1,012 Kilo watts per Hour (KWH) / capita, up 5.9 percent from the previous year. For this year, the government is targeting public electricity consumption to increase to 1,129 kwh / capita. In terms of electricity distribution, PLN (State Electricity Company) has 2 distribution systems, namely postpaid electricity and prepaid electricity. Postpaid electricity is electricity that is billed at the end of the month according to the energy used. The striking difference from postpaid electricity with prepaid electricity is that on prepaid electricity customers can control electricity usage and can monitor or check electricity usage every day. While this is not yet owned by postpaid electricity due to the old system and the electric meter which only uses analog which shows the amount of power used. This project will create a tool that helps postpaid electricity users in monitoring their electricity usage, there is a sensor mounted on the power source and also an Android application and the final result of this application is that postpaid electricity users can find out the total usage in kWh units and total payment in rupiah units, with a certain usage period. So this makes it easy for postpaid electricity users to estimate their electricity usage in order to save usage.