ABSTRACT

Lately, it was intense to promoted prepaid electric system that expected to provide convenience to customers in controlling electric consumption. In prepaid system, we as customers are have to buy electricity in advance a certain nominal token, where token is worth to a certain amount of KWH's quota.. Token then will be loaded into customers PPM before customers can use electric power. Actually, the prepaid electric system is already quite easy-use for us as a customer. But the system still has an interval time that can make a negative impact, such as power outages if the electric quota was already exhausted before being filled again by the customers..

This final project has made a simulation of prepaid electric's token input system using a short message service that available on customer's *mobile phone*, who enable to enter an already-bought's token to customer's PPM by a short message who sent with a predefined format.

The sent's messages received by the *gateway*. And then, *gateway* do a communicate with *CPU* that read and process the message. Afterwards there are an output from CPU with the form of 'true' or 'not' from entered token. This process's results will be sent back *via* short message service from customers *mobile phone* as the *feedback*.

Keyword: Prepaid Electric, Electric's *Token* , short message services*, Gateway, CPU*