**Design And Build A Home-Based PLN KWH Meter Reading System As An IoT-Based Home Electricity Consumption Report**

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**ABSTRACT**

Electricity is one of the primary human needs in the era of technological and communication advancement. KWH Meter is an electrical energy counting device that works using the magnetic field induction method. With the process of manual calculation with the officer in the sense of time consuming. To facilitate the recording process, Design a Home Pln Kwh Meter Reading System as a Report on The Use of IoT-Based Home Electricity (kWh Meter IoT) is needed. Research Procedure uses Analisis, design, testing and implementation. The kWh IoT meter design uses NodeMCU8266 as a controller, PZEM004Tv3 as an energy sensor and a 2x16 LCD as a display. This IoT kWh meter tool can record the use of home electricity in accordance with the recording of PLN kWh meter installed in the customer's home with an average difference of 0.021 kWh energy recording within 15 days, data can be monitored in real time through the Android Fullscreen Browser Application and or Desktop Web Browser.

*Keywords: Iot Kwh Meter;pln;internet Of Thing;php Mysql;nodemcu8266;esp8266;pzem004tv3*