Abstract

Currently in Lab IoT Telkom University still uses digital kWh meter, whisch did not get to know the power usage in this building. One way to determine the power usage in this Lab is calculate manually, this way of course less efficient as a waste of time to do the calculations in order to determine how the use of power in the building.

In prototype system built smart metering, can be used to monitor power use in building D Telkom University in realtime using the current sensor and microcontroller based on the concept of M2M based transport protocol OpenMTC Web Socket platform.

From the results of tests and analysis showed that the system can monitor power usage via website using OpenMTC platform. Smart metering system in monitoring has a reading error electric power of 0.122% .

Keyword: *Smart Metering,* **M2M,** *Internet of Things***,** *Monitoring***,** **OpenMTC, Web Socket**