

## **ABSTRACT**

*As system technology goes on to provide solutions to improve existing electricity, current and voltage are intended to minimize the undesirable things that occur such as excess electricity costs. By integrating Arduino as a microcontroller and LoRa module that uses radio frequency as a data sender, from the results of tests that have been done, the system can monitor electricity in the electric meter (kwh) with sensors related to electricity with limits on the value of the current flowing so an overload occurs so that updates can be interrupted and immediately transferred to the user through the LoRa module.*

*Keywords: electricity, power, current, arduino, sensor, LoRa, overload, radio frequency.*