

Substation monitoring using iot A System for Monitoring the Electricity Sub-Station using Internet of Things

ABSTRACT:-

All-Pervading sensing enabled via Wireless Sensor Network (WSN) technologies has created a great impact on several areas of modern living stratum. It provides the facility to measure, conjecture and understand the environmental indicators starting from natural resources to metropolitan environment. The outburst of these devices in communicating-actuating network explores the Internet of Things (IoT), in which sensors and actuators binded together around us.

Then the information is being shared among devices to develop a fully automated environment. Nowadays there are several applications supported by IoT, among that home automation, health care, social welfares are the major areas which attained more importance.

In order to deal with emergency situations that arise in electricity supply station due to abnormal functioning of transformers, capacitors and reactors, its technological parameters must be monitored.

The number of parameters to be measured and monitored is likely to error prone when it would be processed manually. This proposed

system presents an IoT based real time online electric substation monitoring system and it can monitor as many transformers located at heterogeneous locations. By regular remote monitoring of transformers, capacitors, reactorshuge loss can be avoided and also can make accurate decisions using IoT.

Block Diagram:-

