

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAUM-590 014



PROJECT REPORT

ON

“ZIGBEE SMART ENERGY METER ECOSYSTEM”

(SPONSORED BY K.S.C.S.T, Bangalore)

**Submitted as part of
Bachelor of Engineering**

in

COMPUTER SCIENCE &ENGINEERING

by

PROJECT ASSOCIATES

KAVYA HEGDE (2SR07CS018)

PRATIBHA J (2SR07CS035)

RASHMI M (2SR07CS038)

**Under the guidance of
Mr.GURURAJ K S M.Tech**



DEPARTMENT OF COMPUTER SCIENCE & ENGINNERING

SRI TARALABALU JAGADGURU INSTITUTE OF TECHNOLOGY

RANEBENNUR – 581 115

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ABSTRACT

Utility provider (like electricity companies) may set different tariff rates (per unit rate) at different time intervals of the day and these scenarios can be classified as Normal, Peak and Critical scenarios. To interact with utilities, user should have a system proposed so that he can configure different actions on different in home appliances/devices for each tariff for power saving and cost effectiveness (such as turn off water pump during peak and critical hours and run only in normal hours, dim the corridor lights during peak, control the temperature settings of AC/ Fan speed, etc). Utility Companies communicate to user network through a device called Home Energy Gateway (HEG) situated at each home the functionality of each device/appliance configured by the user will be stored in HEG. When tariff changes, HEG will get that information from utility and controls all connected devices/appliances according to the pre configured status based on the current scenario.