



IMPLEMENTATION OF HOME AUTOMATION BY INTEGRATING SOLAR BASED SYSTEM WITH INTERNET OF THINGS

¹Mithilesh kumar Singh, Research Scholar, Department of CSE, CBS Group Of Istitution Jhajjar

²Nishant Anand(Assistant Professor), Department of CSE, CBS Group Of Istitution Jhajjar

Abstract: It is IoT that allows objects to be sensed & controlled remotely across existing network infrastructure, creating opportunities for more direct integration of physical world into computer-based systems, & resulting in improved efficiency, accuracy & economic benefit. In this research we have integrated Solar based system to implement home automation.^[3] The objective of research is Home automation using IOT with integration of Solar based energy system. Integration of sensing & actuation systems, connected to Internet, is likely to optimize energy consumption as a whole. It is expected that IoT devices will be integrated into all forms of energy consuming devices (switches, power outlets, bulbs, televisions, etc.)^[12] & be able to communicate with utility supply company in order to effectively balance power generation & energy usage. Solar Energy System that is properly installed & adequately sized will not really require much in way of management^[2].



© IJRPS International Journal for Research Publication & Seminar

[1]Introduction to Home Automation using IOT

The objective of research is Home automation using IOT with integration of Solar based energy system.^[1] Integration of sensing & actuation systems, connected to Internet, is likely to optimize energy consumption as a whole. It is expected that IoT devices will be integrated into all forms of energy consuming devices (switches, power outlets, bulbs, televisions, etc.) & be able to communicate with utility supply company in order to effectively balance power generation & energy usage. Solar Energy System that is properly installed & adequately sized will not really require much in way of management. To make this relationship clear, & for those who might think solar energy is complicated, I

designed & wrote this simulation to demonstrate basic operation of a solar energy electric power system. Only 3 things need to be considered first is level of charge on battery bank. (AmpHour Meter), Second is Amount of charging power coming in. (Solar Amps Meter), Third is Amount of power being used. (AC Amps Meter)

IoT is especially relevant to Smart Grid since this provides systems to gather & act on energy & power-related information in an automated fashion with goal to improve efficiency, reliability, economics, & sustainability of production & distribution of electricity.^[5]

Note :For Complete paper/article please contact us info@jrps.in

Please don't forget to mention reference number , volume number, issue number, name of the authors and title of the paper