

# An IoT based Load Efficiency making System using Renewable Energy Resource

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**CS70:** In modern days, the use of renewable energy increased more quickly than at any other point in history. The online visualization of solar energy utilization is referred as to renewable energy in the suggested system. This project depicts the utilization of renewable energy, when the availability of power is low while we are using the conventional sources the addition of solar energy to the system provides the continuity of the system without interruption and also the Arduino microcontroller is used to perform the monitoring of the system. Smart Monitoring shows the amount of renewable energy used each day. This aids in the user's analysis of energy consumption. IoT, which enables to be store, monitored remotely over an established network infrastructure, permits the total integration of the physical world into computer-based systems. This reduces the need for human intervention while increasing efficiency, accuracy, and financial gain. At present many uses this technology, including solar cities, smart villages, micro grids, solar street lights, and others. So using IoT we can remotely access the data and the voltage, current values and power that is consumed per day is stored in servers that can be remotely monitored using IoT.