IHP - Predictive Energy Management System Using IoT and Machine Learning for Energy-Efficient Living

Abstract:

Energy management leveraging IoT integrates advanced technology to optimize energy consumption and distribution. IoT-based energy management systems pro-vide insights into patterns, anomalies, and trends, empowering organizations to make informed decisions. Energy wastage is minimized through automation and smart control, enhancing sustainability and cost-efficiency. IoT applications energy appliances that are publicly used are mapped by tracking the personnel movement using their mobile phone within the building and nearness to the appliances, energy consumption pattern of appliances, the IoT system auto-suggests monitor and manages the appliances saving energy and associated costs in real-time.