

# IOT-based Energy Efficient Lighting as Emerging Technology

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**Abstract:** *Smart lighting control systems have emerged as a sophisticated means of reducing energy consumption. Advanced technology enables smart lighting control systems to afford greater user control by manually, remotely, and autonomously adjusting the brightness of lights, color, and timing. The review provides an overview of energy-efficient lighting technologies: LEDs, CFLs, and advanced controls in lighting. It describes the salient features and relative merits of each technology in saving energy and benefiting the environment. The review further discusses various benefits of energy-efficient lighting technologies, such as reduced energy use, lower operation and maintenance costs, and increased quality on account of better lighting. The discussion also involves ways these technologies help in energy conservation and sustainability, improving the overall experience of the lighting for its users [2]*

**Keywords:** Energy-Efficient, Lighting, LEDs, CFLs, Halogen.