A case study to assess the possibilities of electrical energy conservation in an office premises
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Abstract

Energy is a key input for development of any country. Due to the increase in population and their needs, the demand for energy sources are accelerating. Therefore effective management of energy is essential for utilizing energy in a sustainable manner while being cost effective. A leading telecommunication company in Sri Lanka was selected as our study site for conducting the project. The main objectives of this project was to improve the sustainable energy usage within the company while achieving economic benefits and to guide the company to process their activities in an eco-friendly manner. Electrical energy is the most widely used type of energy in the world. Therefore, prior concern was given towards electrical energy usage within the company. Visual assessment was conducted through the company to analyze the energy flow within the company premises and to figure out the energy loop holes. In order to get an idea about the knowledge of employees on energy conservation and management a survey was done. An awareness programme was properly conducted after recognizing the vital needs which need to be fulfilled to aware the employees on sustainable energy conservation practices. Feedback questionnaires and analysis of electricity bills were used to convince the effectiveness of project. Feasible recommendations were given to the company with justifications.

Keywords: Energy, sustainability, survey