

DEVELOPMENT OF ENERGY AUDITING SYSTEM FOR ENERGY AUDITORS: A case of Commercial Building in Dar es Salaam.

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Population and economic growth are paramount causes of increased energy demand. Energy, especially electrical energy is essential to human sustenance and development In society, industry, economy and the public. Commercial building in Tanzania cities finding the middle ground in reducing the energy use as to increasing the energy efficiency. Associating the energy use from the demand side is very challenging and excessive reposition. The only achievable way to handle this crisis, apart from the capacity addition, is the engagement of Energy Auditors to improve energy efficient utilization of available electrical energy by persistently monitoring and controlling the use of electricity.

The aim of this study was to Develop Energy Auditing System for Energy Auditors considering commercial building as a case study. Later, through a system, the energy auditing practicing saves time, increase accuracy and make the energy - use data available at a real time. Primary and secondary data were collected through interviews, questionnaires, observation and documents reviews. SPSS used to analyse data and later PHP and MySQL used to develop the system.

This study among others finds the effectiveness of an Efficiency Energy Auditing System (EEAS) when used to contribute to energy efficiency and sustainability by controlling systems more efficiently, facilitating behavioral changes in energy services utilization and reducing energy consumption. Hence, EEAS in energy services should not be ignored; there are benefits to be from the integration of it.

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