

ABSTRACT

Nowadays, electricity becomes very essential to human being. The importance of electricity usage on humans' daily life cannot be denied. In line with the rapidity of development and application of science and technology, the demand towards electricity is increasing per annum. Therefore, the cost of electricity supplying services increase proportionally with the demand. Due to those importance's, e-learning software has been developed which is capable to compute the cost of electricity in peninsular Malaysia, called MyIECS which is stand for My Intelligent Electric Cost System In order to develop MyIECS, two graphical programming language have been used, which are Microsoft Visual Basic 6.0 and Macromedia Flash 8.0. Both languages are very practical to use where user is allowed to interact with them in friendly manner. Approaches used in MyIECS such as buttons and graphic animation are good to ease user and attract them to use the software. Through MyIECS, a few analyses have been covered to strengthen the objectives of the project software including how certain factors influenced tariff rates, the variety of electric user, the function and structure of energy meter and also some methods on energy saving practices. As the result from this MyIECS, it would help user to enhance their knowledge on electric cost calculation and other related topics inside the software.

OBJECTIVES

This project aims to develop software MyIECS, which can be used to calculate the cost of electricity consumption for each type of consumer in Peninsular Malaysia. There are twenty types of electricity consumer which consist of different level of voltages. Besides that, MyIECS also provides important information about how electric meter works and some tips on energy saving.

RESULTS



Fig 1: Opening Screen

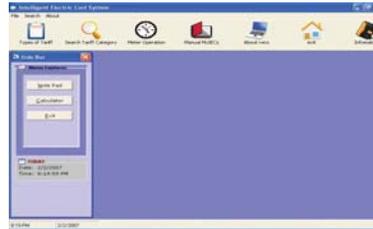


Fig 2: Main Menu



Fig 3: Types of Tariff

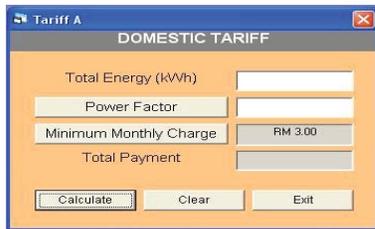


Fig 4: Domestic cost calculation

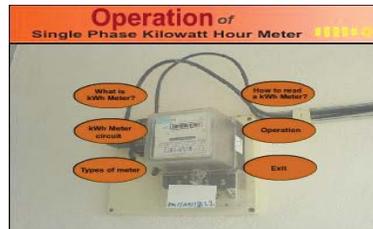


Fig 5: Meter Operation Menu

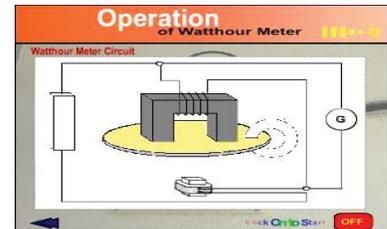


Fig 6: Operation of Watthour meter

ADVANTAGES & BENEFITS

- Easy to access - Freeware web.
- Easy to understand for all types of consumers.
- Attractive and interesting features.
- Useful information for saving energy and meter reading.
- Calculation based on new tariff approved by the Minister of energy, Water and Communication, in accordance with section 26 of the electric supply Act 1990, effective from 1st June 2006
- Enables the user gaining a deeper understanding of fundamental concepts in electrical cost savings.

NOVELTY

Most of software available only focuses on domestic, commercial and industry. No emphasizing on other categories such as mining sector, street light and agriculture sector. MyIECS overcomes this problem by covering all of 20 electricity consumers. In TNB webpage, bills are calculated without taking power factor/ penalty into consideration. MyIECS once again, overcome this problem by taking power factor into its calculation.

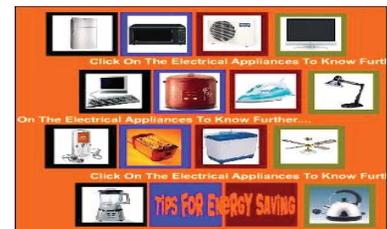


Fig 7: Energy Saving Tips

Researchers Info

Aida Fazliana Abd Kadir
Jurifa Mat Lazi
Junaidah Bt Ariffin

Tel : +6(06)-555 2229
Fax : +6(06)-555 2222
E-mail : fazliana@utem.edu.my