

Impact of Advance Computing and Technology to Manage Energy Resources

T. A. Fernando^{1*}

Electricity, the essence of life. It is one of the important supplement to run our lives, in the modern world. In the past, electricity used only to power up equipment we tend to use. Eventually Its lead to change with modern life style. Electricity currently (presently) not only use for power up homes or Industry, it is started to use for multiple energy sector too. With this peak electricity usage, energy efficiency is critical in proper household and Industry management. Hence the Sri Lankan government tend to find out various methods to generate more electricity. By researching author able to identify the massive increase of electricity consuming when comparing with past years and every year consumption increase. Consuming energy increases day by day, the Government not able to provide sufficient electricity requirement to the country and it can lead country to some anonymous difficulties. As a consumer, consumers should also take responsibility to adapt and understand the situation. Locally higher percentage of the consumers are not aware new advance technologies available for them to use to manage the electricity usage much better ways than the present methods they used. As an example, most of the electricity consumers use government or privet sector generated electricity and they end up with high expenses for the electricity. While researching author identifies present world there are many options consumers can implement to reduce their consumption, but most consumers not aware about the available solutions and possibilities they have. One example consumers are unaware that they are able to set up solar panels to generate electricity and the generated electricity could set against with the consumed electricity by the user. Applying this method, consumers are able to save money and also be able to support to save natural resources. Furthermore, the major issue is local consumer's lack of knowledge about their unwanted electricity usage and the available methods to use for manage their electricity usage appropriately. Local consumers are unaware the technology used by the developed countries to make their life easy and effectively manage the limited resources. By research author recognize available solutions to track down or control electric appliances such as time sensitive switches, sensor switches, smart switches. Some of the solutions are grouped and used to achieve the outcome consumers expecting. Furthermore, these solutions been more developed and thus adapt to the modern world technologies such as control the appliances using mobile devices. These advanced technologies already in used in globally. As an example, Home Automation Systems in developed countries are popular technology used for manage their day to day life electricity consumption. Using this technology, consumers are able to monitor the equipment consuming electricity and manage the consumption level even they are not in the premises. Hence, there will not be mismanage an electricity usage. Due to unknown of this Advance Computing Technologies by the local consumers, leads to critical in proper household and Industry management. Considering all these factors found while researching, Author recommend to local consumers to begin with these new Advance Computing technologies to manage energy efficiency and reduce their life complexity.

Keywords: *Advance Computing, Electricity, technology, efficiency, consumer*

¹ University of Kelaniya, Sri Lanka *ashanethiw@yahoo.co.uk
