

Energy Requirement for Rural ICT Telecentre: CoERI Implementation

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ABSTRACT

Recently there has been a growing realization in developing countries that ICT telecentre have an important role play in the economic development of rural area. One of the main criteria in developing the telecentre is the energy to provide power besides physical infrastructure such as the ICT building itself. There are few options to provide energy for the rural ICT telecentre. However, the design and development of the alternative energy in such area depends on the local energy resources and their development funds. The objective of this paper is to review and discuss the energy requirement for rural ICT telecentre based on the Centre of Excellence for Rural Informatic (CoERI) implementation. First, this paper reviews and discusses some of the options of small scale power system to provide energy for the telecentre. This paper discusses further on the selection of equipment criteria with energy efficient. Finally, energy requirement on few sites of CoERI ICT Telecentre namely, eBario, eLamai, eBa'Kelalan, eLarapan and eBuayan will be examined.

KEYWORDS : ICT Telecentre, Renewable Energy, Energy Efficient, Energy Load Profile, Rural Electrification