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EVALUATION OF COMMUNITY ENERGY-SAVING EFFECTS USING FUZZY LOGIC MODEL

Sung-Lin Hsueh*

Graduate Institute of Cultural and Creative Design, TungFang Design Institute, Taiwan, E mail: hsueh.sl@msa.hinet.net; Phone: +886 932883292; Fax: +886-7-6931234

Abstract

A township consists of diversified communities, and communities are the basic units of local infrastructure. The public buildings, public lighting equipment, private buildings, and community residents are the normal-state energy consuming aggregates. As community organizations have great influences, the promotion of community energy-saving policy under the organizational influence, along with the concepts of direction, evaluation, and subsidy, can help to realize the community energy-saving policies. This study uses the Delphi method and fuzzy logic theory to construct a quantized community energy-saving multi-attribute effect evaluation model, in order to evaluate the processes of community energy-saving promotional effects. Quantization is used as the criterion for reviewing the outcome of policy implementation, thus helping to achieve a low-carbon lifestyle of communities.

Key words: community energy-saving, Delphi method, energy-saving evaluation model, fuzzy logic theory

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* Author to whom all correspondence should be addressed: E-mail: hsueh.sl@msa.hinet.net; Phone: +886 932883292; Fax: +886-7-6931234