



CRITERIA FOR EVALUATION OF ENERGY EFFICIENCY MEASURES IN THE MANAGEMENT OF BUILDING ENERGETIC CHARACTERISTICS

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ABSTRACT

Renovation of the existing buildings is one of the aims of the society, actually reflected in the Energy efficiency Directive. Qualitative renovation begins by choosing energy efficiency measures (EEM). Criteria should be defined for all kinds of decision making methods. In order to increase sustainability of the renovation five main criteria (primary energy savings, environmental impact, economical criteria, physical comfort and Life cycle analysis criteria) are defined and analysed. The attributes representing each criterion are defined. The defined criterions are commonly used separately or in groups, e.g. 2E or 3E evaluation. The model for integration of criteria from different fields of science (energy, environment, economy, health and building construction) is presented. The sensitivity analysis for estimation of weight for each criterion is presented and the impact of each criterion for decision making is described.

Keywords: Building renovation, Energy efficiency measures, Sustainability, Criteria