

TITLE OF DIPLOMA THESIS

Cost-benefit analysis for energy performance of public schools

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ABSTRACT

This dissertation analyzes the importance of the cost-benefit analysis in decision-making by Civil Engineers, as it relates to the energy upgrade of a public school. A bibliographic review is carried out in the field of cost-benefit analysis and the various methods of energy upgrading of buildings. Interventions carried out in public schools in Thessaloniki are examined and the correlation of these interventions is determined, in terms of cost, energy reduction and reduction in the operating costs of the school. A model is developed to predict the impact of each individual intervention will have on a future school and it is then examined whether this relates to reality or not.

KEYWORDS

Cost-benefit analysis, energy performance, public school