

ENERGY LIFE-CYCLE COST ANALYSIS (ELCCA)

Glumac utilizes energy life-cycle cost analysis (ELCCA) to help building owners and the design team to make decisions based on educated comparisons of energy usage values of various design alternatives.

We develop computer models early in the design process using energy modeling software for the basic building design. We then make several adjustments to the model to reflect design alternatives. For each alternative, first costs and maintenance costs are inputted, and energy costs are calculated from the models. As alternatives are adopted, the models are refined until a suitable solution is reached.

This analysis can be used both for the design and development of energy-efficient new buildings, as well as in evaluation of existing facilities to identify opportunities to update old systems and operations to improve efficiency. Our reputation as a "green" firm within the sustainable design community has been earned by our consistent advocacy for higher and higher levels of energy efficiency, supporting our designs with analysis and hard economics to show the benefits of life cycle costs over short-sighted first costs.

