



ASHRAE Level I, II, and III Energy Audits

HELPING CLIENTS FIND STRATEGIC SOLUTIONS TO LOWER ENERGY CONSUMPTION IN THEIR BUILDINGS.

Energy audits assess building components and maintenance of building systems to determine no-cost, low-cost, or capital-intensive measures that a building owner may undertake to improve a property's energy efficiency. Through performing these audits, Marx|Okubo can identify and provide savings and cost analysis of practical energy conservation measures involving capital investment with potentially attractive paybacks.



The American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE) defines three different levels of energy audits:

- > **Level I - Walk-Through Assessment:** This level involves assessing the building energy costs and efficiency by analyzing energy bills and briefly surveying the building while accompanied by the building operator. Level I analysis identifies and provides a savings and cost analysis of low-cost/no-cost measures. It also lists potential capital improvements that merit further consideration, along with an initial judgment of potential costs and savings. The results can be used to develop a priority list for buildings that are recommended for a Level II or Level III audit.
- > **Level II - Energy Survey and Analysis:** This includes a more detailed building survey and energy analysis. A breakdown of building energy use is provided. A Level II analysis identifies and provides the cost and savings analysis of practical measures that meet the owner's constraints and economic criteria, along with discussions of effects on operation and maintenance procedures, if applicable. A Level II audit lists potential capital-intensive improvements that require more thorough data collection and analysis, along with an initial judgment of potential costs and savings.
- > **Level III - Detailed Analysis of Capital-Intensive Modifications:** This level of analysis focuses on potential capital-intensive projects identified during previous studies, and it involves more detailed field data gathering and engineering analysis. It provides detailed project cost and savings information with a level of confidence high enough for major capital investment decisions.

Through our well-defined process, Marx|Okubo is ideally positioned to assist clients to understand the opportunities to reduce a building's energy consumption and, by extension, its carbon footprint. In addition, an energy audit will assist in prioritizing capital expenditures and maximizing impact, helping clients reduce operating expenses, meet regulatory compliance, or achieve their own internal energy or carbon reduction goals.