

Whitman participates in all levels of the Energy Audit as follows:

Level 1 – Preliminary Audit

Preliminary audits are often referred to as “Walk-thru” audits because they involve simply walking through a facility, briefly interviewing facility personnel and performing a review of the facility’s monthly utility bills. Due to its brevity, the preliminary audit will usually uncover only major energy usage problems and is not usually considered sufficient for reaching comprehensive energy management solutions. This process usually includes documenting photographs of Mechanical Systems and Operational Equipment. These audits often identify “No cost/Low cost” operational practices that can substantially reduce energy usage. Preliminary audits allow for prioritization of problem areas and provide a framework to determine whether or not a more detailed audit is warranted or required.

LEVEL 1 – PRELIMINARY AUDIT	
<ul style="list-style-type: none">• Lighting<ul style="list-style-type: none">➤ Indoor➤ Outdoor➤ Light Harvesting • Heating/Air Conditioning/Ventilation<ul style="list-style-type: none">➤ HVAC➤ Chillers➤ Heat Pumps➤ Cooling Towers➤ Boilers➤ Energy Recovery Ventilation	<ul style="list-style-type: none">• Renewable Energy<ul style="list-style-type: none">➤ Photovoltaic➤ Solar Thermal➤ Wind➤ Geothermal • Water Heating Mechanicals • Steam/Hot Water/Thermal Fluid Systems<ul style="list-style-type: none">➤ Distribution➤ Generation

Level 2 – Targeted or Scoping Assessment

A Scoping Assessment generally expands upon the Preliminary Audit in terms of expanding the level of analysis. Utility bills will be gathered in order to evaluate a facility’s annual usage profile and more detailed information regarding the facility’s operating profile will be collected. Furthermore, additional metering may be utilized on known high-usage equipment to help create a base line of energy waste patterns. Detailed interviews of facility personnel are performed to better document variations in energy usage within a facility, as well as to gain a better understanding of the equipment utilized within that facility. Scoping Assessment will identify all appropriate energy conservation measures for a facility, and a financial analysis will be performed based on implementation costs, operating budgets, and attainable savings. Scoping Assessments are sufficient for drawing energy management conclusions.

LEVEL 2 – TARGETED / SCOPING ASSESSMENT
<ul style="list-style-type: none">• Performance Evaluation• Maximum Demand Management• Demand Reduction• Utility Billing and Tariff Review

Level 3 – Investment Grade Audit

The Investment Grade Audit (ASHRAE Level III) expands upon the Scoping Assessment by gathering a higher level of field data and providing more detailed financial information regarding energy usage and the operation of the equipment servicing the facility. Rigorous engineering and economic analysis produce reliable estimates of project energy and financial performance. An Investment Grade Audit provides realistic savings reports with regard to baseline operating costs, potential savings and avoided costs. Oftentimes investors will require this higher level information when reviewing the acquisition of a potential asset. Through our extensive accounting and financial background, we will develop reports that demonstrate the estimated ROI (Return on Investment) and projected savings in a manner that will instill confidence in the investor.

LEVEL 3 – INVESTMENT GRADE AUDIT

- **Fuel Shift & Cogeneration**
 - Micro turbines
 - Reciprocating Engines
 - Turbines
 - Fuel Cells
- **Building Envelope**
- **Electrical Distribution Systems**
- **Pumping Systems**
 - System & Pumping Operational Improvements
- **Compressed Air**
 - Usage
 - Distribution
 - Control Equipment
- **Advanced Ventilation Studies**
- **Water Consumption**
- **Motor Controls**
- **Effluent Treatment**
 - Waste Water Treatment
- **Desalinization**
 - Reverse Osmosis
 - Distillation
- **Building Automation Systems**
 - Pneumatic
 - Electric/Electronic
 - Direct Digital Controls
- **Maintenance Procedures & Workflow Management Systems**