

ecoefficient, inc.

Measured Performance, Sustainable Solutions.

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Energy Performance Assessment Packages

Our services include three different auditing packages to fit your needs:

Energy Check is a complete visual inspection of your home or building from an energy perspective to determine opportunities for energy improvements. While it does not include diagnostic testing, this level of assessment will give the homeowner a good understanding of the energy saving opportunities available within the home.

Ecoefficient's Energy Audit is a thorough testing of your home using calibrated equipment to determine the integrity of the building envelope, the duct system, and the HVAC efficiency. A Blower Door Test, Total Duct Leakage Test, Infrared Scan, and a Worst Case Depressurization Test (CAZ) are standard tests included as part of the audit. The Energy Audit will reveal the extent of issues impacting the home's energy performance, and solid test numbers that can be used as a basis for decision making and post-project verification.

Our **Comprehensive Home Energy Performance Analysis** combines a visual inspection & testing with a comprehensive building performance analysis to create a detailed computer model of the building through the use of a nationally recognized rating tool, REM Rate by the Architectural Energy Corp. Modeling the building in this manner determines the HERS Energy Rating of the building which is the basis for an Energy Star Certification, as well as many other programs. It also allows a more complete view into the home's energy performance, and subsystem performance, and generates specific measures & benefits to assist in the creation of an comprehensive plan for an energy retrofit project.

Testing and Diagnostic Services

In addition to our auditing packages, we offer many of the services included in the package as stand alone services. This may be beneficial if you require only a specific component of the building to be tested, such as the integrity of the building's envelope, or perhaps the tightness of the HVAC system and ducts. Follow up testing is often scheduled after a trade contractor has completed their work. Testing services include:

Blower Door Test – A blower door is a device that can depressurize (or pressurize) a home to measure

the amount of air infiltration of the building's envelope. A significant amount of energy is lost due to a home's air leakage.

Duct Leakage Test – Since a duct system is pressurized during heating and cooling of a home, any leakage of that system loses energy to unintended locations, often outside of the home. It can also draw poor quality air into the system from areas such as the crawlspace or attic.

Infrared Thermal Inspections – Infrared measures radiant energy to find areas of energy loss, missing insulation, air infiltration, and the presence of moisture in a structure. It is often used to facilitate energy efficiency retrofit projects.

Worst Case Depressurization (CAZ) Test – This determines if a home's installed ventilation equipment can create a condition of depressurization that could back draft naturally drafting combustion equipment.

Zone Pressure Testing – Determines the integrity of separating wall & ceiling systems, and the "communication" of one area (zone) to another.

Rating and Certification Services

HERS Energy Rating

Determining the HERS Rating Number for an existing home (*a confirmed rating*), planned, or under construction (*a projected rating*).

Energy Star Certification, Green Building Rating and Verification

Verify & certify a home for Energy Star and green building programs.

*Please call for quote on Rating & Certification Services.

Consulting & Inspection Services

Energy Efficiency Consulting and Pre-Construction Plans Review & Modeling

Provide energy efficiency and renewable energy technologies consulting before, during and after construction.

On-Request Inspection Services

Follow up inspections upon request.

Project Management for Energy Efficiency Retrofits

As a general contractor, we can provide full project management services for your Energy Efficiency Retrofit Project.