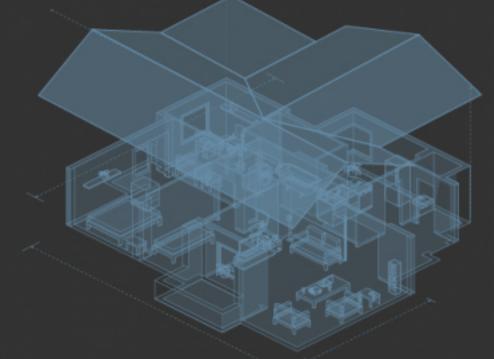


Energy Saver 101: Home Energy Audits

Take the first step to improving your home's energy efficiency: get a home energy audit.



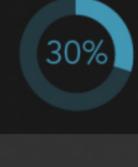
What is a

home energy audit?

A home energy audit helps you pinpoint where your house is losing energy and what you can do to save money. A home energy auditor will also assess health and safety issues that might exist in your home.

The audit involves two parts: the home assessment and analysis using computer software.





You could save 5 to 30 percent on your energy bill by making efficiency upgrades identified in your home energy audit.





Telescoping ladder To reach into an attic or up high



To help determine air leakage





Used to confirm fuel leaks in ombustion appliances

Soap bubbles



To remove outlet plates and inspect appliances



measure flue gas temperature, leaks and carbon monoxide

A large fan that depressurizes the home

the effect of a 20-mile-per-hour wind to allow the auditor to find air leaks

A gauge that measures the differences

by sucking air out. This test simulates



For testing temperature rise in heating equipment and fan operating temperatures

Digital probe thermometer



Flashlight and batteries To help see behind appliances

To help see into hard-to-reach places

and document elements of the house

For making a footprint sketch of the house



in pressure in a home to pinpoint air leakage and test exhaust devices for proper operation

Smoke generating device

Produces a thin stream of smoke or



To test for chimney drafts

Draft gauge

To see into constricted spaces

Inspection Mirror



Pen and paper

Digital camera



leakage and duct leakage Watt meter

The Home Energy Audit Checklist 🛭

Certified home energy auditors should go through the following steps in a home energy audit.

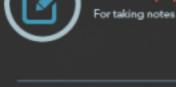
Measures the electrical energy used by various devices throughout the home

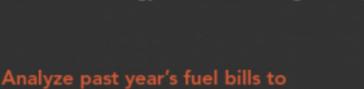
non-toxic fog to help find air



Measures moisture level in wood and other materials

Moisture meter





Interview the homeowner to learn about problems and how the

determine base energy consumption



Assess electrical system

for safety concerns

Interior visual inspection



Explain the audit process

home operates



Combustion appliance inspection



Health and safety inspection

Conduct exterior inspection



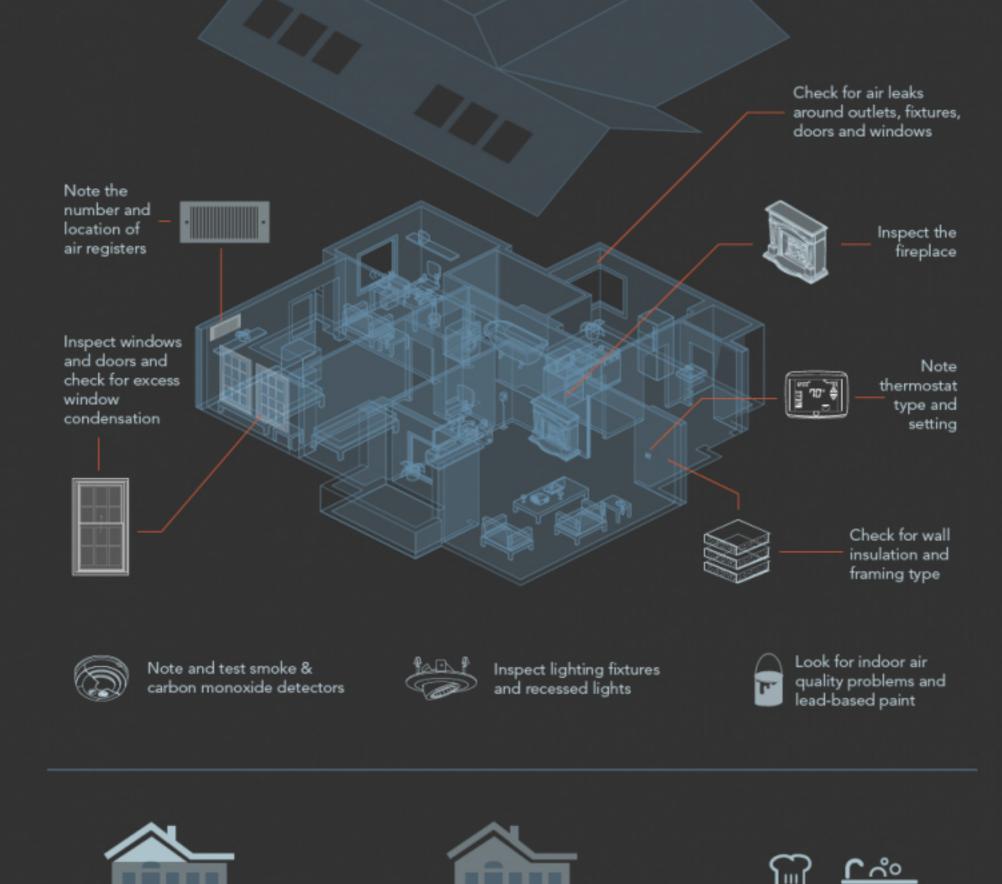
energy report

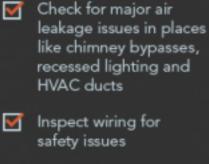
Analyze findings & create

a comprehensive home

Blower door test

Home Energy Audit: What to Look For





Note any signs of

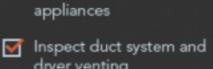
water leakage

Attic

Inspect insulation



▼ Furnace: Test for fuel leaks,



Water heater: Note

Perform Combustion

thermostat setting and

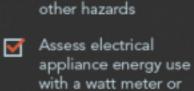
insulation on tank and

piping; test draft hood

Appliance Zone Testing on

all combustible fuel fired

dryer venting



Kitchen/Bathroom

Look for electrical or

manufacturer

Assess vent fans for

vapor

flow rate

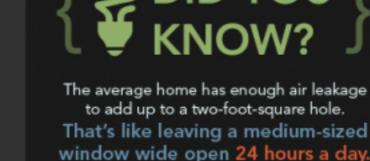


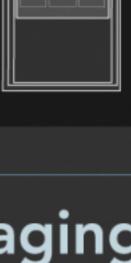
Blower Door Test? A blower door test locates air leaks by using a special fan to

What is the

depressurize a house. Blower tests are conducted before and after air sealing to measure the effectiveness of the work.







not be the only tool an see color.



It can only see temperatures with cold objects appearing darker

and warm objects

appearing lighter.

generated to make the difference in temperature

The color is computer easier to see to the untrained eye.

energy auditor uses. When used during a blower door test, infrared imaging is a powerful tool for determining air leaks.