

Home Energy Audits

Farmers Electric is now offering **home energy audits**. A professional home energy auditor will come to your house and make specific recommendations for improving your home's efficiency. Three types of audits are available:

The Home Energy Tune-uP®	\$ 50*
The Home Energy Tune-uP® plus Blower Door Test	\$ 150
The Home Energy Tune-uP® plus Blower Door Test and Infrared Imaging	\$ 200

*FREE for all-electric heat homes



Home Energy Tune-uP®

During your Home Energy Tune-uP a professional energy auditor will examine, measure, and evaluate the factors that affect energy use in your home, e.g., size of the home, efficiency of appliances, insulation, draftiness of walls, windows and doors, and efficiency of heating and cooling systems (HVAC).

The information gathered during the energy audit will be analyzed using specialized software to produce a comprehensive report. The report shows which energy-efficiency improvements would reduce costs and make the home more comfortable. The analysis takes into account local variables such as weather, labor and equipment costs, and fuel prices.

Your detailed report will contain estimates of the savings, costs, and payback for all recommendations. The report will enable contractors to provide preliminary cost estimates without a visit to your home. It also explains how to get energy savings from no-cost or low-cost measures you can do yourself.

Blower Door Test

A blower door test is used to find and measure air leakage in your home. An energy efficient heating system is a great way to save, but heat loss -- through gaps and cracks -- significantly compromises those savings.

To conduct a blower door test, technicians close all openings within the heated area of the house. They then seal a special, powerful fan within an exterior-door opening. The fan pulls air from the house, while gauges measure the difference between indoor and outdoor air pressures. During the test, outdoor pressure forces air through leaks in the building envelope. Technicians locate the leaks, record their locations, and give a report to the homeowner.

Infrared Imaging

Infrared images allow technicians to visually identify temperature differences in walls and ceilings. Like digital cameras, infrared cameras have a sensor chip that captures an image and displays it on an LCD screen. But instead of capturing visible light, the thermographic sensors detect light on the infrared wavelength, measuring relative temperature differences. Colder areas are shown in a different color gradient than warmer areas, allowing insufficient insulation and unseen gaps to be easily detected.