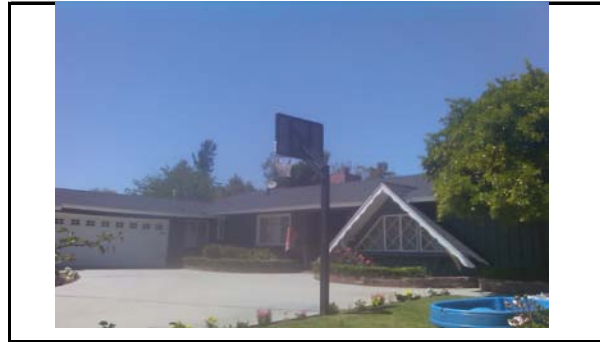


[Redacted]
Woodland Hills, CA 91367



Inspection Date: **05/04/10**
 Phone Number: [Redacted]
 Advisor: **Scott Hudson**
 Advisor Phone: **(805) 757-0278**

This Comprehensive Home Assessment (CHA) Report provides a detailed analysis of how your home currently uses energy and the opportunities to reduce your energy consumption and costs. Since the energy consumption patterns of homes are rather complex, this assessment report will highlight the potential savings you could reasonably expect by completing the recommended energy conservation measures and the cost-effectiveness of completing an energy project on your home.

First, it is important to better understand how your home currently uses energy. The current energy costs for your home, electric vs fossil fuel, is as follows:

Electric Costs

Electric Costs for your home include lighting, pumps, fans, air conditioners, dehumidifiers, most major appliances and plug loads (such as computers, printers, lamps, etc.)

The Annual Electric Costs for your home are **\$2,475**
 This is approximately **75%** of your Total Annual Energy Costs.

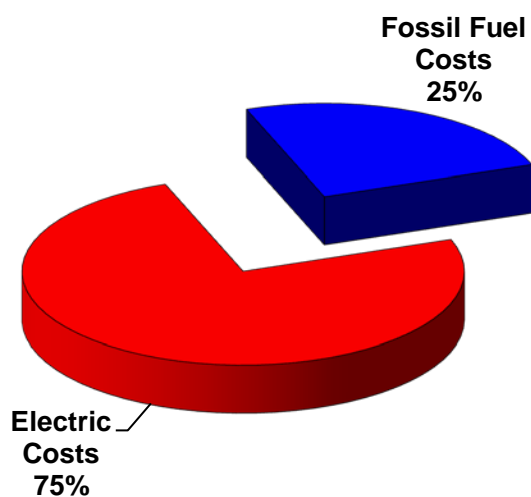
Fossil Fuel Costs

Fossil Fuel Costs for your home include heating systems, hot water systems, pool heaters, gas ovens and gas dryers.

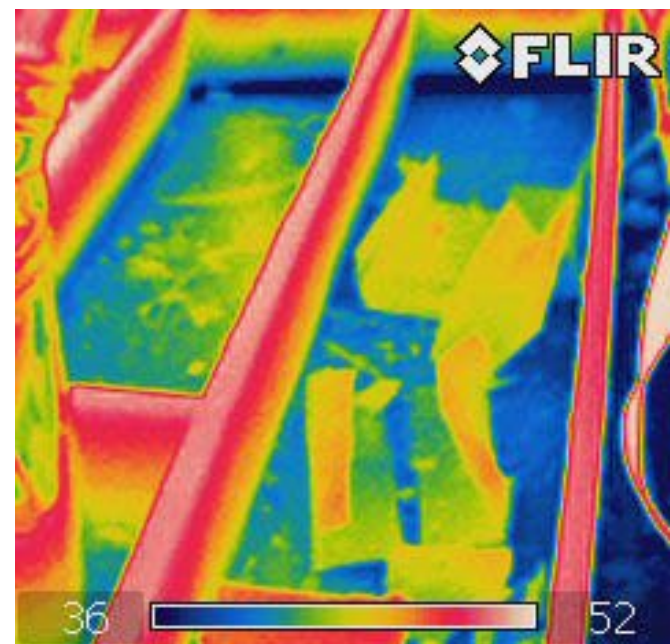
The Annual Fossil Fuel Costs for your home are **\$833**
 This is approximately **25%** of your Total Annual Energy Costs.

The Total Annual Energy Costs for your house are as follows: **\$3,308** per year, or **\$276** per month

The following graph shows how your total energy costs are divided between electric and non-electric costs (or fossil fuel costs). These costs become the basis for the energy savings estimates determined through the comprehensive home assessment process.



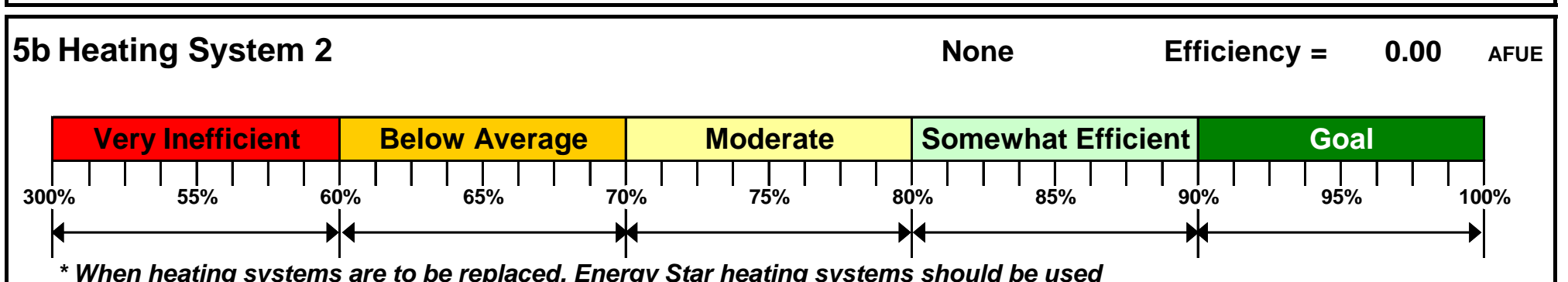
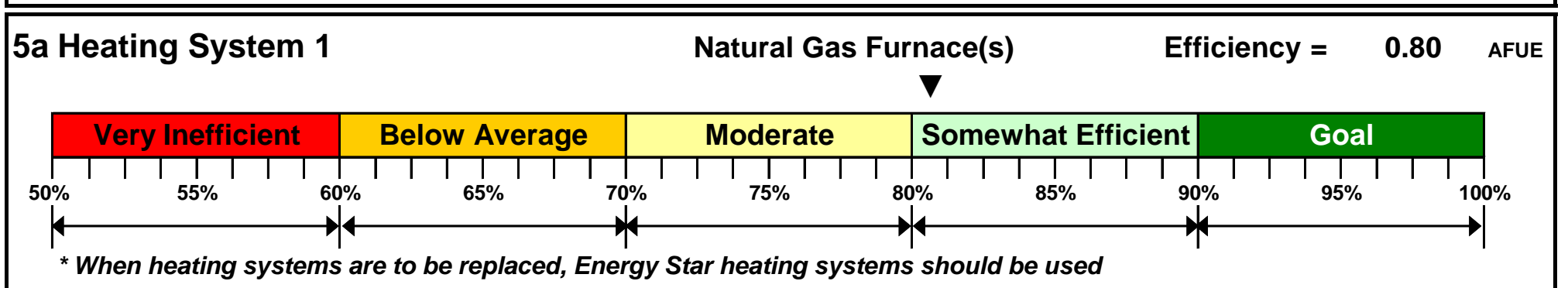
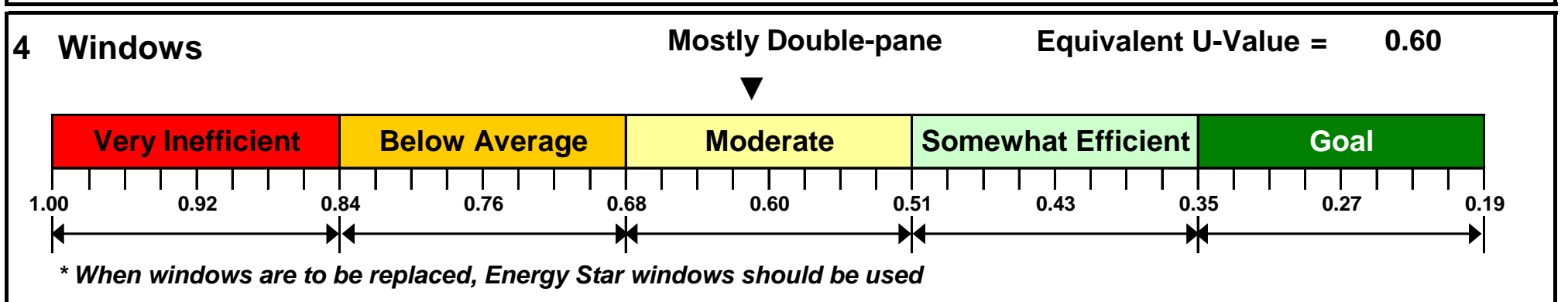
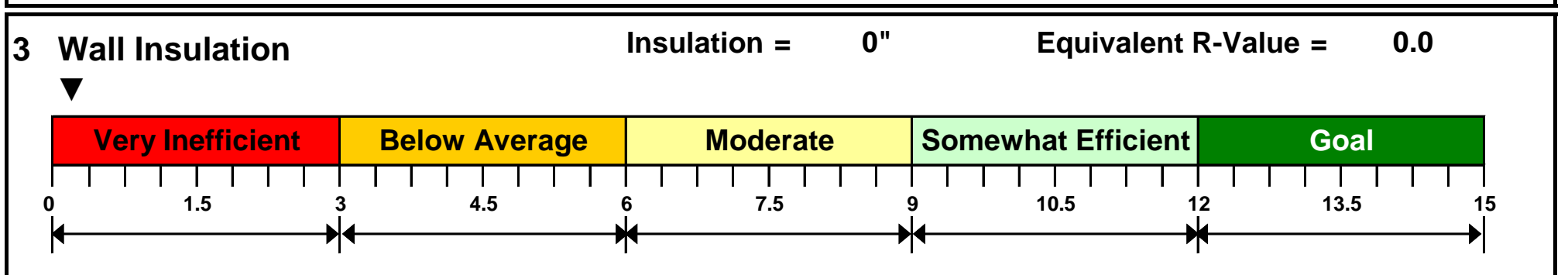
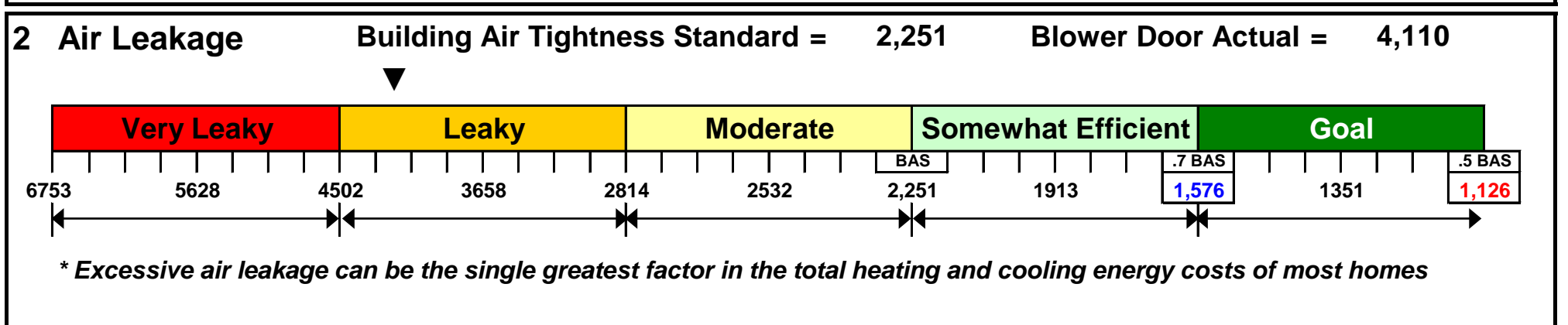
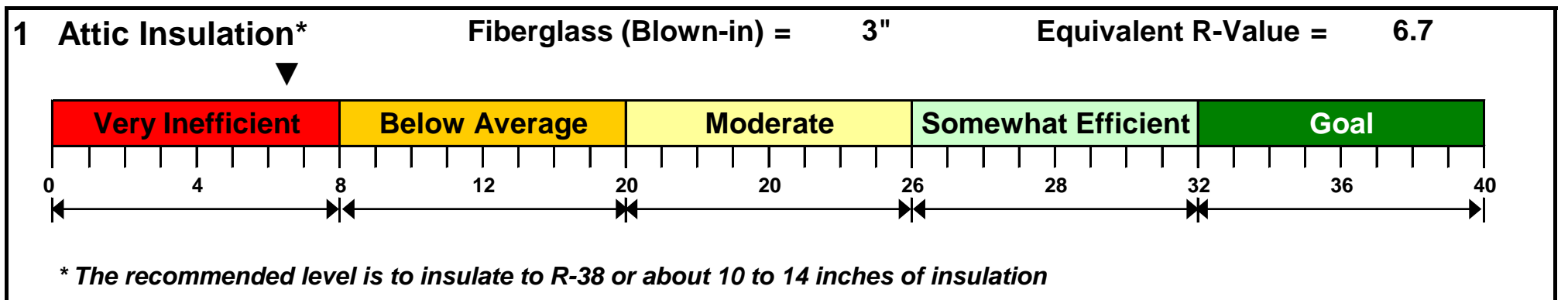
Electric vs Fossil Fuel Costs for Your Home



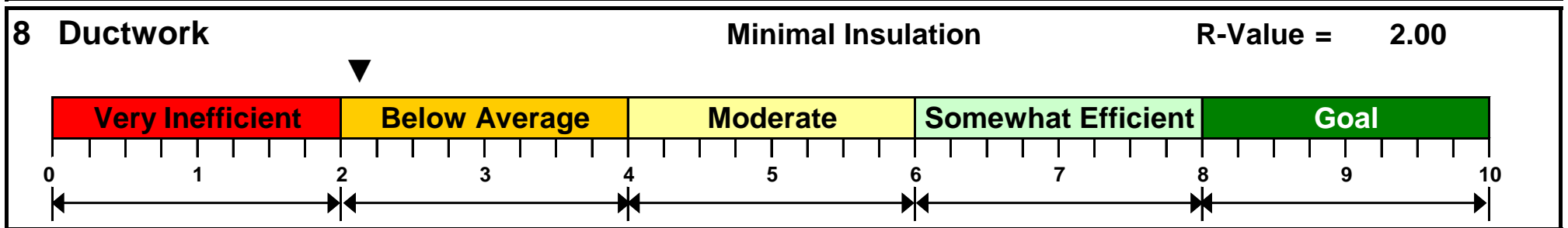
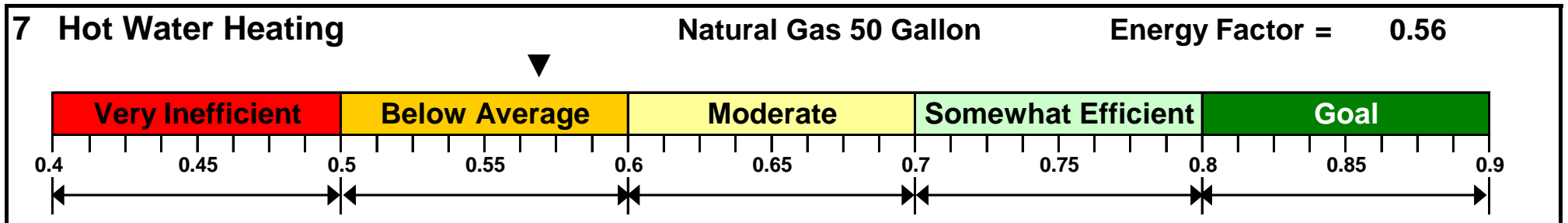
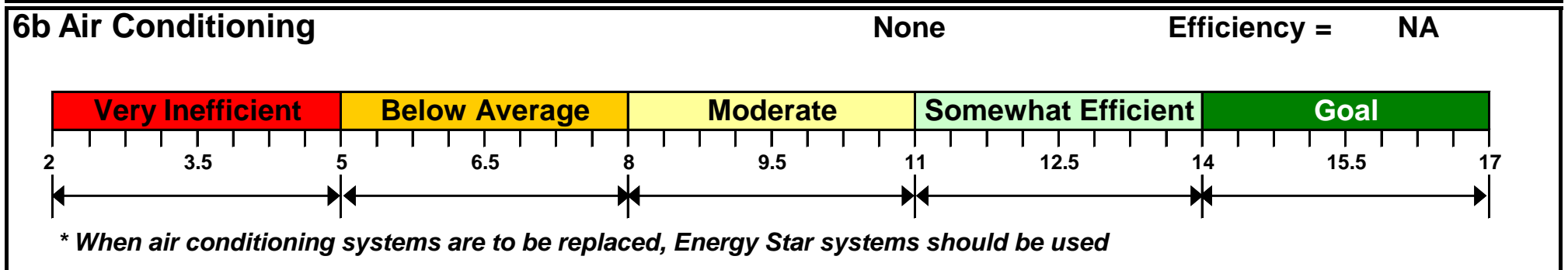
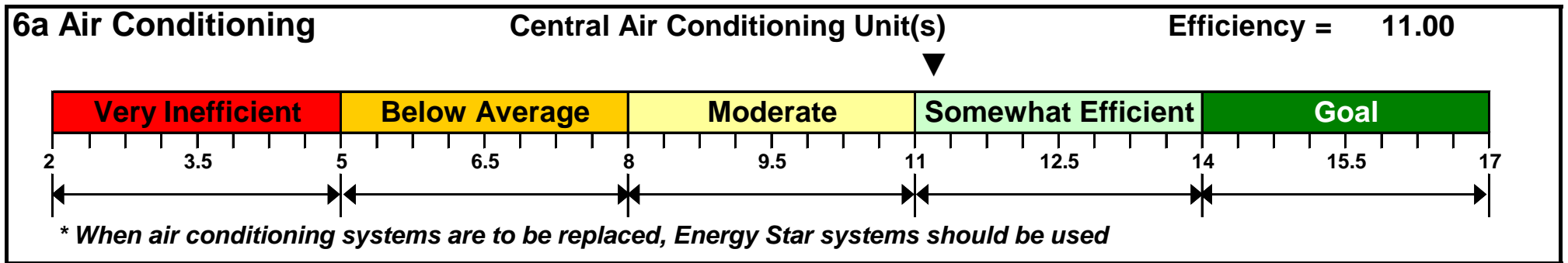
Infrared Picture Showing Thermal Weaknesses

Your Home's Main Energy Features

The graphs below summarize the relative efficiencies of the main energy features of your home. The ranges show you where your house is efficient and where opportunities to improve efficiencies exist.



Your Home's Main Energy Features (Continued)



Recommended Energy & Comfort Improvements

Next, our Comprehensive Home Assessment provides recommendations for Energy and Comfort Improvements for your home. For each recommendation, the level of importance is provided as well.

Recommended Energy & Comfort Improvements	Level of Importance
Building Shell Measures:	
1 All attic penetrations, holes and by-passes are recommended to be sealed.	★ ★ ★ Urgently Recommended
2 Comprehensive air sealing and insulation of thirty-eight (38) recessed can lights in the attic	★ ★ ★ Urgently Recommended
3 Increase attic insulation to at least R-38 with flame retardant, rodent repellent, environmentally friendly Cellulose loose-fill Insulation.	★ ★ ★ Urgently Recommended
4 The attic hatch should be insulated and air sealed as part of the project.	★ ★ ★ Urgently Recommended
5 Prior to adding insulation to the attic, ventilation baffles will be installed to make sure the attic is well ventilated	★ ★ ★ Urgently Recommended
6 Weather-strip leaky exterior doors.	★ ★ ★ Urgently Recommended
Mechanical System Upgrades:	
1 Install New CO Detector	★ ★ ★ Urgently Recommended
2 Repair the Gas Leak found at the Hot Water Tank during the audit.	★ ★ ★ Urgently Recommended

Benefits of Recommended Energy & Comfort Improvements

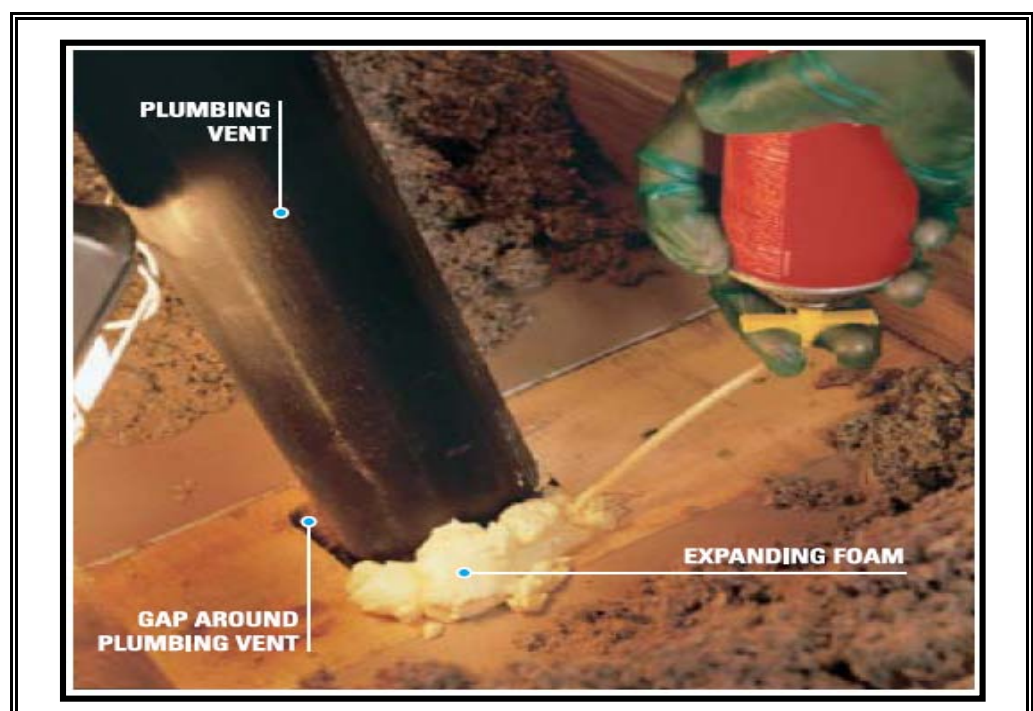
The Energy and Comfort Improvements installed in your home have numerous energy, environmental, health and safety benefits. These benefits help provide you with a more comfortable, energy efficient, healthier home. The benefits of Home Performance projects include:

-  *Cooler rooms in summer*
-  *Warmer rooms in winter*
-  *Significantly less drafts*
-  *Lower utility bills*
-  *Insurance against rising utility costs*
-  *Energy savings helps the environment*
-  *Improved Indoor Air Quality*
-  *Improved Health & Safety*
-  *Less dust throughout your home*
-  *Higher home resale value*
-  *Prolongs the life of your air conditioner*
-  *Prolongs the life of your furnace*



Your home's air leakage was measured to be 4110 CFM at 50 Pascals. The Building Air Tightness Standard is 2251. Therefore, your home's air leakage is 1.8 times the BAS.

Heat losses and gains due to excessive air leakage can be the single greatest factor in the total heating and cooling energy costs of most homes. Excessive air leakage also can cause unwanted drafts and cause rooms to be uncomfortable. When reducing air leakage in homes, leakage paths between the attic and the home should always be a top priority.



Air Sealing will dramatically reduce unwanted air leaks from your home

Estimated Savings from Proposed Energy Conservation Measures

This section of the report summarizes the energy cost savings that could be realized by installing the recommended Energy Conservation Measures. This energy cost savings projection is based on modeling of your homes key energy features and is an estimate only.

	Current Energy Costs	Projected Svgs - Year 1	Projected Svgs - Year 5	Projected Svgs - Year 10
Electric	\$2,475	\$718	\$4,382	\$11,439
Fossil Fuels	\$833	\$242	\$1,475	\$3,850
Totals	\$3,308	\$959	\$5,857	\$15,289

1 Projected energy savings are estimates only.

Indoor Health & Safety Analysis

GreenHomes America believes Health and Safety testing of homes is critically important. For that reason, each home is tested for elevated carbon monoxide (CO) levels, natural gas or propane leaks and proper operation of chimneys. Additionally, any moisture problem or other building performance failure is documented before any energy efficiency work begins.

The results of the health and safety testing on your home is as follows:

- | | | |
|--|---|---|
| 1 . CO levels produced by the Heating System | - | <i>Meets BPI and Program Requirements</i> |
| 2 . Draft in the chimney of the Heating System | - | <i>Meets BPI and Program Requirements</i> |
| 3 . Spillage of the Heating System | - | <i>Meets BPI and Program Requirements</i> |
| 4 . CO levels produced by the Domestic Hot Water System | - | <i>Meets BPI and Program Requirements</i> |
| 5 . Draft in the chimney of the Domestic Hot Water System | - | <i>Meets BPI and Program Requirements</i> |
| 6 . Spillage in the chimney of the Domestic Hot Water System | - | <i>Meets BPI and Program Requirements</i> |
| 7 . Ambient CO in Living Space | - | <i>Meets BPI and Program Requirements</i> |
| 8 . Ambient CO in CAZ Zones | - | <i>Meets BPI and Program Requirements</i> |
| 9 . CO levels produced by the Oven | - | <i>Meets BPI and Program Requirements</i> |

10 . Gas Leaks Found

- **Fails BPI and/or Program Requirements**




11 . Worst Case Depressurization

- *Meets BPI and Program Requirements*

Benefits to the Environment

Increasing the efficiency of your home has a direct and positive benefit on our environment. The obvious benefits are the conserving of our natural resources by consuming less electricity and fossil fuel. Secondly, another obvious benefit is lower utility bills. However, many people don't realize that consuming fewer kilowatt hours, therms of gas, gallons of oil, etc. has an immediate and positive impact on our environment. Increasing the efficiency of your home directly reduces the amount of air pollution because electric power plants will burn less fuel to produce electricity. Also, increased insulation, improved air sealing and high-efficiency heating equipment will save on the burning of fossil fuels to heat your home which will also lower carbon emissions.

Here is an estimate of the environmental benefits your project would provide:

-  **The energy savings realized by this energy project is Equivalent to planting 48 trees per year, or**
-  **The energy savings realized by this energy project is Reducing your carbon footprint by 5132 lbs of CO2 per year**
-  **The energy savings realized by this energy project is Equivalent to driving 5305 miles less per year**



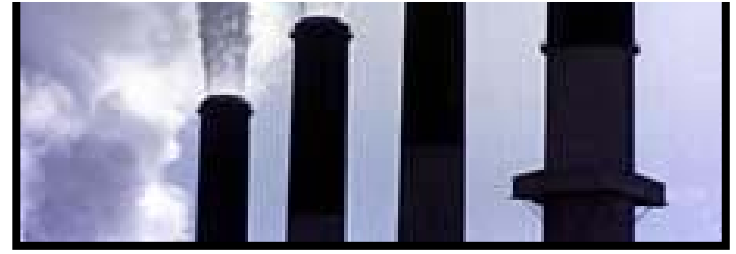
Each time you turn on a light, make toast, watch television, do a load of wash, etc., electricity is used. Electricity for your home is produced at large generating plants many miles from your home and transported through a series of wires called the electric distribution system.

Many of the electric generating plants burn natural gas or oil to produce the electricity. Many others burn coal or nuclear fuel and some are hydro-electric plants. Regardless of the type, all generating plants have a negative impact on our environment. The impacts include emitting pollutants into our air, changing the ecosystems of our rivers or leaving behind radioactive material for future generations.

Using energy more efficiently in your home reduces the pollution from power plants and conserves our natural resources. An energy



from power plants and conserves our natural resources. An energy efficient home helps improve our environment for the future while lowering your utility bills today!



The following images include specific issues to be addressed at your home or are examples of different aspects of Home Performance Contracting. If you have any questions concerning any of the following images, contact your energy advisor.



Fire retardancy and insulating ability of cellulose insulation



Well insulated attic after cellulose is installed



High Efficiency Heating/Cooling Systems



Air flow paths and leakage locations in a typical home

The following pages provide more detail on the recommended energy conservation measures including information on their benefits, energy savings, installed costs and cost-effectiveness. To move forward with this work or if you have any questions, please call:

GreenHomes America

1-800-424-7546
