Single Family Energy Audit Summary

IN COMPLIANCE WITH THE CITY OF AUSTIN'S ENERGY CONSERVATION AUDIT AND DISCLOSURE ORDINANCE

| PROPERTY INFORMA Austin Energy Electric Account Tax Assessor's Property ID: | t Number: | | | OF A VOTA |
|--|---|---|---|----------------------------|
| Owner | Phone | e (h) | (w) | <u> </u> |
| Physical Street Address: | | | | |
| Unit: | City: | State: | Zip: | |
| Mailing Address (if different): | | | | |
| City: | State | : Zip: | | |
| AUDITOR INFORMAT Auditor: | | | | |
| Company: | | | | |
| Certificate #: Date of Audit: | Amiliat | tion: BPI-BA | RESNET-Ho | me Rater 🔲 |
| 1. WINDOWS & SHAD Installation or replacements of Install (sq. ft.) exterior shading: S NW W | solar screens of solar screens, fil | m or awning for w | indows facing the f | ollowing directions: |
| 2. ATTIC INSULATION Add R of additional A Add R of additional A Add R of additional a Insulate Thermal Bypasses YI Insulate Attic Hatch/Stair Box: 3. HEATING & COOLIF Perform Comprehensive Duct S Replace/Add/Insulate Replace/Add/Insulate | aulted Ceiling II ttic/knee wall ir ND YD ND NG AIR DU Seal YDND Llinear feet of si | nsulation to bring to nsulation to bring to CT SYSTEM Repair/Replace/lupply duct | the overall R-Value t he overall R-Value t | to an R-38. To an R-11. |
| 4. AIR INFILTRATION Weather-strip all exterior doors Seal Attic Hatch/Stair Box Y□ | | Caulk around all p | olumbing penetrati | ions Y 🗌 N 🗍 |

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| PROPERTY INFORMATION Austin Energy Electric Account Number | | OFAU OF AU O |
|--|---|--|
| Tax Assessor's Property ID: | | _ |
| Owner | _ Phone (h) | _ (w) |
| Physical Street Address: City: _ | | |
| Mailing Address (if different): City: | | |
| AUDITOR INFORMATION Auditor: | | |
| Company: | | |
| Certificate #: | _ Affiliation: BPI-BA 🔲 | RESNET-Home Rater □ |
| Date of Audit: | | |
| Type of Cooling System: Central air conditioning – how ma Window Unit A/C – how many? Type of Heating System: Central gas – how many? Wall Furnace – how many? Gas space heater - how many? Heat recovery system - how many? Thermostats: | Lutilities: Electric Nate beam Deam De | tural Gas Propane gas Condo town home how many? No Cooling how many? how many? how many? |
| Manual ☐ Digital ☐ Comments | Programmable 🔲 | |

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AUDIT PERFORMED

The audit performed at this address focused on the following areas:

- 1. Windows 2. Attic Insulation
- 3. Heating & Cooling Air Duct System 4. Air infiltration



This audit is tailored to meet the requirements of the City of Austin's Energy Conservation Audit and Disclosure Ordinance. The ordinance is designed to give you a clear understanding of the energy efficiency of your home.

Each section of this audit contains specific recommendations, when needed, to improve the efficiency of your property. Making improvements is not required as part of the ordinance, but the improvements are listed for you to aid you in making decisions about your property, along with the availability of rebates and other incentives that can help you pay for improvements.

1. WINDOWS & SHADING

The hot Texas sun shining through south-, east-, and west-facing windows and skylights can significantly raise indoor temperatures, causing comfort problems and higher energy bills. Newer homes and some homes with replacement windows have "low-e" windows which filter out the sun's heat-generating ultra violet ("UV") rays. Windows and skylights that are not low-e rated and receive an hour or more of direct sunlight on 40% or more of their surface area each day should be covered with solar screens or solar window films. This audit will look at these areas to determine any recommendations.

| r |
|--|
| Existing Conditions |
| Type of windows (check all that apply): |
| Single-pane glass Double-pane glass Low-e glass Other |
| Skylights - Existing Covers Y N |
| Existing Solar screens or other solar improvements? Y N N |
| Type of exterior shading (check all that apply): |
| |
| Solar screens Solar film Awnings Other Solar film Solar film Other Solar film |
| Solar Shading (sq. ft.) |
| SNWWNESWESE |
| Skylights |
| Comments |
| Recommendation |
| Installation or replacements of solar screens or other solar improvements recommended? Y \(\subseteq \text{N} \subseteq \) |
| Install (sq. ft.) exterior shading: solar screens, film or awning for windows facing the following directions: |
| S NW W NE SW E SE |
| 2 IAAA AA IAE 2AA E 2E |
| Colon deadles at the Lor Door City of the Lor Door |
| Solar shading can save an estimated 25-30% of the cooling portion of the electric energy costs. |
| Incentives are available from: Austin Energy Y N N Solution |

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2. ATTIC INSULATION

Attic insulation should provide a blanket-like thermal barrier between a home's indoor living space and the frequently hot or cold attic above it. Homes with too



little attic insulation, or attic insulation that is installed improperly, heat up rapidly during summer and cool down quickly during winter, causing occupant discomfort and increased energy usage. The effectiveness of insulation is known as its "R-value", with a higher "R-value" providing better thermal resistance or protection. Austin Energy recommends attic floors have no less than R-22 insulation, with R-38 recommended. Vertical attic walls, or "knee walls," should have a minimum of R-11 securely installed. Insulating and sealing whole house fans, attic stairs and hatches, wall chases and openings between floors are also necessary.

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3. HEATING & COOLING AIR DUCT SYSTEM

Ducts are typically installed in attics, between floors, and in crawl spaces to provide airflow throughout the home. The duct system should be in good condition and have a leakage rate of 10% or lower, with an R-8 outer covering. The duct system must be properly sized or the efficiency of the heating and cooling system is significantly compromised. Conditioned air must flow easily into and out of rooms with the doors closed. This audit will review these areas to determine any recommendations.

| Existing Condition of Air Duct System & HVAC Equipment: System 1 Duct type: Grey Flex Mylar Flex Duct Board Sheet Metal Approximate R-Value Condition: Good Fair Poor Return Sizing: Adequate Inadequate Return Air Plenum Sealed Y N Duct System Test: Pressure Test CFM Leakage % Leakage | To make measurement, turn the Duct Blower ON and adjust fan speed until pressure reaches –25 Pa or acceptable HVAC system operating Pa, record the duct leakage flow rate reading from the digital manometer. Divide total leakage by total rated airflow for percentage of duct system CFM loss. |
|---|---|
| HVAC System Information | |
| Location of Air Handler: Closet ☐ Garage ☐ Attic ☐ | |
| Type of Air Handler: Up flow ☐ Down flow ☐ Horizontal ☐ | |
| Condenser: Age BTU's EER | |
| Furnace / AH: Age BTU's AFUE | |
| System Tonnage: Total System CFM HVAC Delta T: | Sq.ft.perTon |
| Comments | |
| | |
| Recommendation | |
| Perform Comprehensive Duct Seal Y□N□ Repair / Replace / Insulate Du | cts Y□N□ |
| Replace/Add/Insulatelinear feet of supply duct | |
| Replace/Add/Insulatelinear feet of return duct work | |
| Additional Return Air Y N N | |
| Incentives are available from: Austin Energy Y□N□ Texas Gas Service Y□ |]N 🗆 |
| In homes the average Duct Leakage is 27%. Acceptable leakage should not exceed 10%. | |
| Duct improvements can result in lower energy bills, greater comfort, and improved air quality. | |

3. HEATING & COOLING AIR DUCT SYSTEM (CONTINUED)

| Existing Condition of Air Duct System & HVAC Equipment: System 2 | 2 |
|---|--|
| Duct type: Grey Flex ☐ Mylar Flex ☐ Duct Board ☐ Sheet Metal ☐ | |
| Approximate R-ValueCondition: Good ☐ Fair ☐ Poor ☐ | |
| Return Sizing: Adequate ☐ Inadequate ☐ | To make measurement, turn the Duct Blower ON and adjust fan |
| Return Air Plenum Sealed Y□ N□ | speed until pressure reaches -25 |
| Duct System Test: | Pa or acceptable HVAC system operating Pa, record the duct |
| Pressure Test CFM Leakage% Leakage | leakage flow rate reading from the digital manometer. Divide |
| HVAC System Information | total leakage by total rated airflow for percentage of duct |
| Location of Air Handler: Closet ☐ Garage ☐ Attic ☐ | system CFM loss. |
| Type of Air Handler: Up flow ☐ Down flow ☐ Horizontal ☐ | |
| Condenser: Age BTU's EER | |
| Furnace / AH: Age BTU's AFUE | |
| System Tonnage: Total System CFM HVAC Delta T: | Sq.ft.perTon |
| Comments | |
| Recommendation | |
| Perform Comprehensive Duct Seal Y□N□ Repair / Replace / Insula | ate Ducts Y□N□ |
| Replace/Add/Insulatelinear feet of supply duct | |
| Replace/Add/Insulatelinear feet of return duct work | |
| Additional Return Air Y□ N□ | |
| Incentives are available from: Austin Energy Y N Texas Gas Service | e Y□N□ |

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4. AIR INFILTRATION

Outdoor air leaking into a home by way of cracks, holes and leaky doors is known "air infiltration." Too much air infiltration, however, or air infiltration from undesirable locations, such as a hot, humid attic, can cause a home to become hot and humid during summer and cold and drafty during winter, both factors that impact comfort and energy usage. For optimal health and energy efficiency, Austin Energy recommends air changes in a home approximately every 2 to 3 hours.

| Existing Conditions | | | |
|---|-------------|---|--|
| Number of exterior doors | Nun | nber of exterior doors properly weather-stripped | |
| | | ttic access is located in conditioned space Y□ N□ | |
| | | □ N □ Damper operable Y □ N □ | |
| Internal Combustion Air t | o Closet: | | |
| Gas Furnace Y | □ N □ Grill | in Door Y□ N□ Closet Door Weather-stripped Y□ N□ | |
| Gas Water Heater Y | □ N □ Grill | in Door Y□ N □ Closet Door Weather-stripped Y□ N□ | |
| Comments | | | |
| Recommendation | | | |
| Weather-strip all exterior of Seal Attic Hatch/Stair Box | | Caulk around all plumbing penetrations Y□ N□ | |
| Incentives are available from Austin Energy and Texas Gas Service through Air Infiltration and Duct sealing option. | | | |

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| nome water neater | | | |
|--|-----------------------------------|--|---------------------------------------|
| Fuel Type: Gas ☐ Electric | c 🔲 Solar | ☐ Tankless ☐ | TONADED 1839 |
| Combustion Air Provided: Y |] N 🔲 Time | er attached to water | heater Y 🔲 N 🔲 |
| | | | |
| | or appliances th | nat will remain in ho | me after sale.) |
| Description | | Quantity | Pre 1993? |
| Refrigerator | $Y \square N \square$ | MACHINE CONTRACTOR OF THE PARTY | Y 🗆 N 🗆 |
| Freezer | Y 🗆 N 🗆 | | Y 🗆 N 🗆 |
| Dishwasher | $Y \square N \square$ | | Y D N D |
| Clothes Washer | $Y \square N \square$ | The state of the s | Y 🗆 N 🗖 |
| Clothes Dryer | $Y \square N \square$ | | Y 🗆 N 🗆 |
| Pool Pump | $Y \square N \square$ | | |
| Timer attached to pool pump | $Y \square N \square$ | | |
| Standard Toilets | $Y \square N \square$ | | |
| Water Saving Toilets | $Y \square N \square$ | Minneys and the second | |
| Sprinkler System | $Y \square N \square$ | Year installed | (as per homeowner) |
| | | | |
| Recommendation | | | |
| City of Austin's Water Conser | vation Prograr | ns | |
| Consider installing low-flow | N toilets, rebate: | s are available. | aving horizontal clothes washer, |
| rebates are available. | a cioti ies wasi ie | i willi new water sa | iving nonzontal clothes washer, |
| □Consider having a free irrig | ation audit perf | formed by City staff. | |
| Austin Enguery Down Course | | | |
| Austin Energy Power Saver P | rogram ezer and refrige | erator Recycling you | ur secondary refrigerator can save up |
| to \$100 annually on you | r electric bill. W | e pick up and recycl | e in an environmentally responsible |
| to \$100 annually on your electric bill. We pick up and recycle in an environmentally responsible manner, call 1-800-452-8685 to learn more. Austin Energy offers up to \$50 to recycle your working | | | |
| refrigerator/freezer. | | | |
| Replace manual or digital thermostat with a programmable thermostat which can help you save | | | |
| 5 to 10% on your heating and cooling cost, and provide greater comfort year round. Sign up and get a free programmable thermostat plus free installation, call 1-877-549-2774 for details. | | | |
| ☐ Consider installing an appliance timer on your electric water heater to save on your utility bill. Free | | | |
| installation of timers available | ilable for qualifi | ed customers, call 1 | -877-549-2774 for details. |
| ☐Replace incandescent light bulbs with compact fluorescent light (CFL) bulbs. Save up to 66% on your lighting costs by using energy-efficient CFLs. Austin Energy offers instant coupons on | | | |
| purchases of ENERGY ST | AR® CFLs at par | ticipating stores. | iergy offers instant coupons on |
| | | , 5 | |

For more information about energy improvement incentives call Austin Energy's Power Saver™ Program at 974-7827 or visit www.austinenergy.com

To find out more information on how your home uses energy, visit our Online Energy Analysis at www.austinenergy.com/go/ECAD

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DISCLOSURES

Weather, equipment installation and electric usage will all effect actual savings. There is no guarantee or warranty, either expressed or implied, as to the actual effectiveness, cost or utility savings, if you choose to implement these recommendations.



The Energy Conservation Audit and Disclosure is not required to be included in the sales contract nor the Seller's Disclosure form (Texas Real Estate Commission), but instead is a stand alone requirement of the City of Austin.