



Energy Conservation Audit and Disclosure (ECAD)

Customer Energy Solutions | Austin Energy

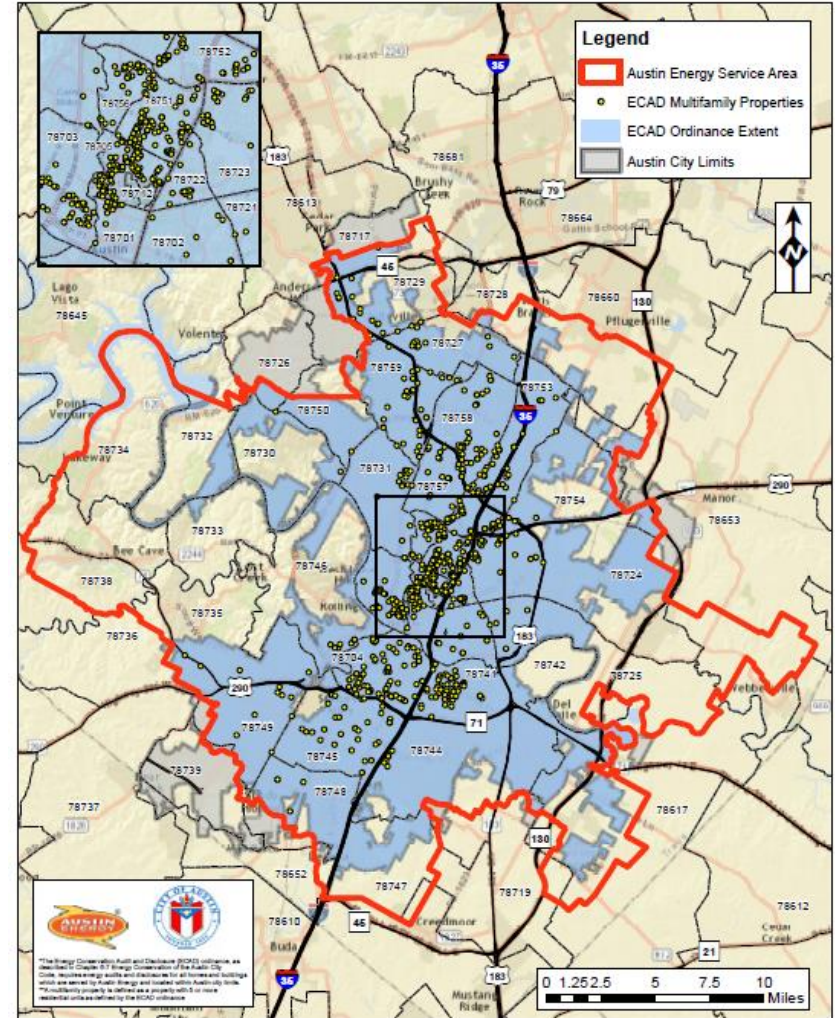
October 2015



Since 2008 ECAD adoption, Austin Energy has:

- Provided new energy usage tools
- Empowered consumers through education and awareness
- Educated building professionals to integrate sustainable practices
- Provided rebates for energy efficiency improvements
- Included requirements for commercial, single & multifamily
- Facilitated alternative commercial compliance path

Austin City Multifamily Properties and ECAD Ordinance





Reporting Requirements and Enforcement

Single Family Audits (2009)*

- Performed at time of sale
- Applied to houses 10 years old
- Required of seller
- Filed over 20,000 audits



Multifamily Audits (2010)*

- Performed every 10 years
- Applied to properties 10 years old
- Required for rebates
- Send out Energy Guides annually for display



Commercial (2012-2014) *

- Performed annually by building owners
- Applied to buildings > 10,000 square feet
- Required for rebates

Enforcement

- Violations may be reported by anyone to the City of Austin Municipal Courts for review and action.



ECAD OUTREACH



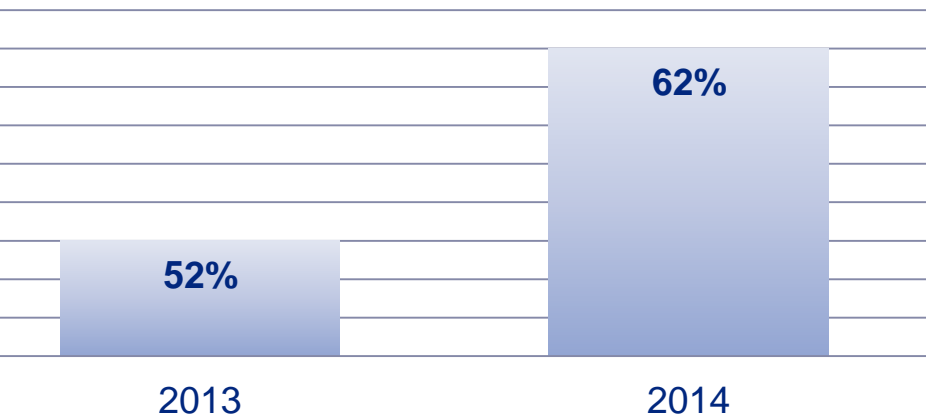
- Austin Board of Realtors (ABOR)
- Realty Round Up
- Apartment Association
- Multifamily property visits
- Business owners meeting
- City Building meeting
- EcoRise Youth Innovations
- Austin Chamber of Commerce
- Cool House Tour
- Blues on the Green
- City wide Safety Event
- Governor's Small Business Forum for Greater Austin Hispanic
- Contractor annual kick-off
- Capital complex education
- Media
 - Print (All)
 - Digital Advertising (Residential and Multifamily)
 - Radio (Commercial)
 - TV (Residential and Commercial)
 - Direct Mail (Multifamily)
 - Collateral (All)
 - Social Media (All)



ECAD Single Family

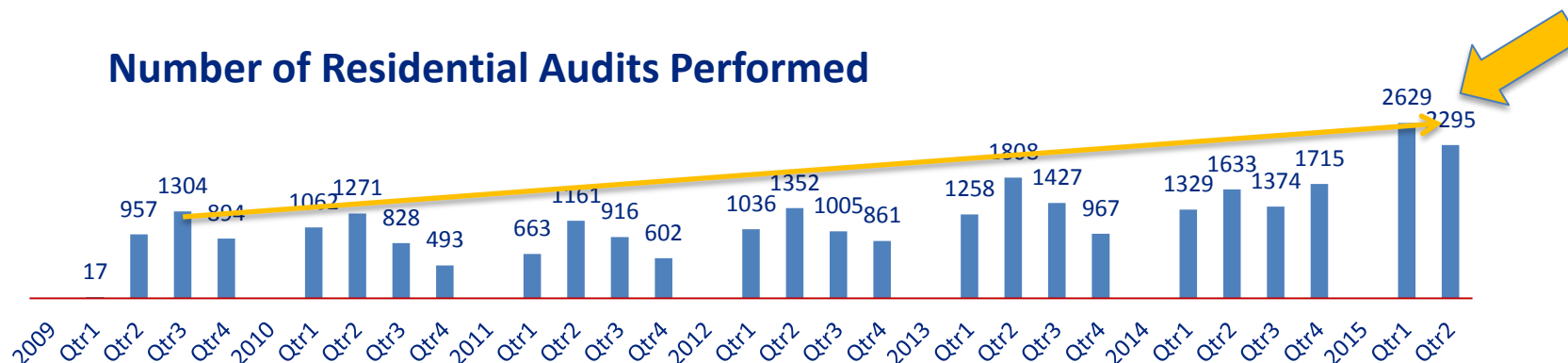


Residential Calendar Year Compliance



Single Family 2013 and 2014 data				
Year	Deed transfer*	Exempt**	Audited	% audited
2013	14,117	5,719	* 4344	52%
2014	11,089	2,797	5,174	62%

Number of Residential Audits Performed





Single Family Focus

- ✓ Increasing Number of Audits Performed
- ✓ Additional outreach presence
 - Events
 - Austin Board of Realtors
 - New audit e-form
- ✓ Pandora Campaign

"The new ECAD form has significantly reduced the time it takes us to input the data into the form. It also seems to present the information in a better format b/c we get a fewer questions from clients about what the data means."

- William Marshall, Austin Auditors

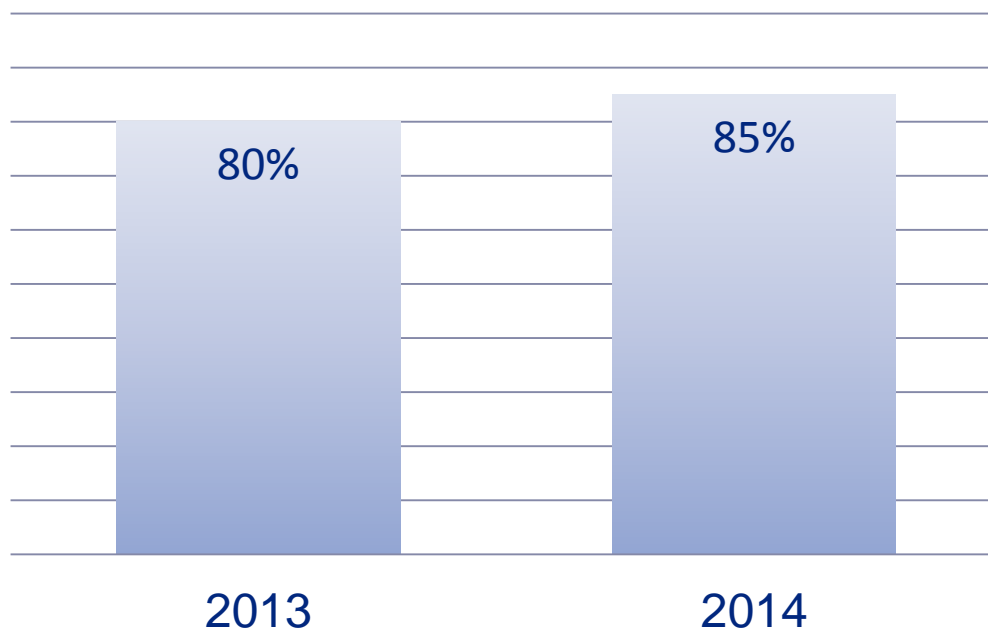




ECAD Multifamily Sector



Multifamily Calendar Year Compliance



Multifamily EE Rebated Upgrades Since ECAD Began

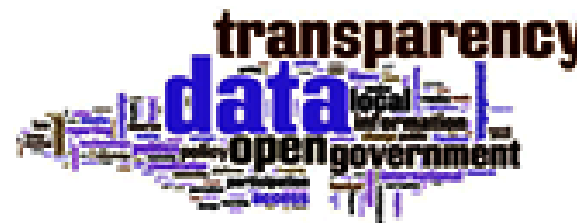
Time Periods	Projects	Rebates
2011 to present	313	Over \$9.9 Million
2014/2015	46	Over \$2.2 Million



Multifamily Focus

Efforts in the Multifamily Community

- New marketing campaign
 - Web and print
 - Radio
- Contractor training on data portal
- Site visits to educate on Energy Guides



Benefits of the Data Portal to Tenants

- Building results comparison
- Download and sortable data
- Map feature
- Competitive market influence

The Austin Open Data
Portal

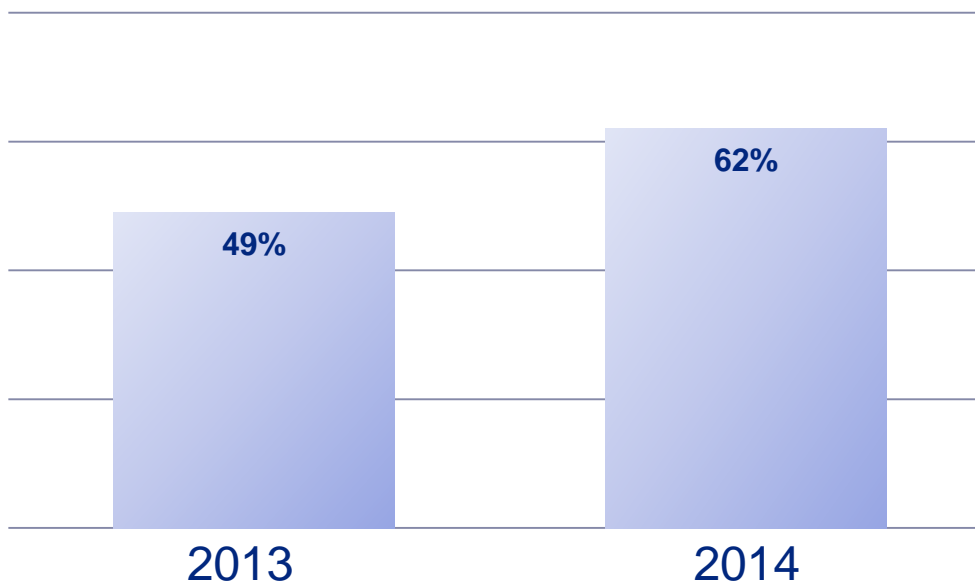
www.data.austintexas.gov



ECAD Commercial Sector



Commercial Compliance Rate Measured as of July 1, 2015



Reporting Implementation

	75,000 sq ft	35,000 sq ft	10,000 sq ft
2012	√	√	√
2013		√	√
2014			√

Data Portal Update:
Commercial 2014
benchmarking
results available as
of October 1, 2015



Options for Commercial Disclosure Compliance

1. Key Code – Simple Process

- Approved by Council to address customer concerns
- Identified by commercial building owner focus groups

2. ENERGY STAR® Portfolio Manager – Detailed Process

- Used to obtain ENERGY STAR® building rating
- May work with consultants to implement energy efficiency measures
- Track and report in monthly reports



- Choices create flexibility
- Customers value both reporting processes
- Community partnership with Chambers
- Community educational events



Next Steps

Residential

- Direct marketing campaign using ECAD audit data
- Involve real estate schools
- Target home financing programs

Multifamily

- 1st Quarter of 2016 – new Energy Guides to be released
- Complete case studies and launch recognition program
- Address multifamily affordable housing properties



Commercial

- February 2016 Reporting period opens
- Further enhance commercial rebate programs
- Educate building owners on disclosing comparable energy use
- Promote benefits of ENERGY STAR ® certification



Back Up Slides



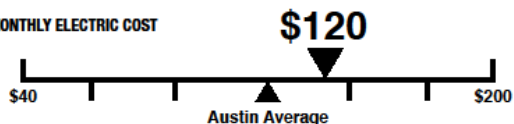
ECAD Multifamily Successes



Austin City Code Chapter 6-7, Energy Conservation ENERGY GUIDE FOR PROSPECTIVE TENANTS

2014

ESTIMATED MONTHLY ELECTRIC COST



THIS PROPERTY

This graph above represents the range of electric costs for Austin properties of a similar type to this one.

This property is:

- all electric
- built before 1985
- 800 sq. ft. average apartment size

Cost information:

- is based on this facility's average size apartment,
- based on a cost of \$0.10 per kWh, and
- is updated annually.

1,200 kWh

ESTIMATED MONTHLY ELECTRIC USE

For details, visit the web site austinenenergy.com/go/ECAD, call 482-5278 or see QR Code:



YOUR BILL

Your actual bill will depend on many factors:

- Weather (bills are higher in extreme heat and cold – especially if electric heat is used),
- Thermostat settings,
- Number of occupants,
- Lifestyle habits,
- Size and location of unit (upper floors and south and west facing units are generally warmer),
- Energy efficiency measures in place, and
- Age and type of heating/cooling equipment.

ENERGY AUDIT RESULTS FOR THIS PROPERTY:

4321 APARTMENT AVENUE, AUSTIN, TX 78700

STREET ADDRESS

ENERGY EFFICIENCY MEASURES EVALUATED

AUSTIN ENERGY RECOMMENDS

AUDIT RESULTS (AVERAGED)

Air Duct System	Less Than 15%	44% Leakage
Attic or Roof	Between R22-R30	R-14
Solar Screens or Window Film	On all East, South and West Windows	Complete

*Average values are calculated from results obtained from multiple buildings and systems.

CONSTRUCTION YEAR: 1978, 1982 ENERGY UTILITIES: All Electric ENERGY AUDIT CONDUCTED BY: A Qualified Auditor
NUMBER OF UNITS: 57 DATE OF ENERGY AUDIT: September, 2011 DATE OF DISCLOSURE NOTICE: June 30, 2011

I acknowledge that I have been given an opportunity to review the results of this multi-family property's energy audit conducted in accordance with Austin City Code, Chapter 6-7.

Signature/Date

Owner's Representative

Signature/Date



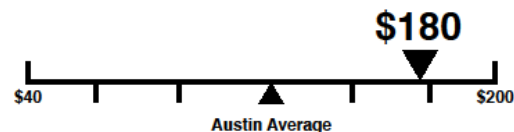
Austin City Code Chapter 6-7, Energy Conservation

NOTICE OF HIGH ENERGY USE PROPERTY

1234 APARTMENT AVENUE, AUSTIN, TX 78700

2014

ESTIMATED MONTHLY ELECTRIC COST



THIS PROPERTY

This graph above represents the range of electric costs for Austin properties of a similar type to this one.

This property is:

- all electric
- built in 1986
- 800 sq. ft. average apartment size

Cost information:

- is based on this facility's average size apartment,
- based on a cost of \$0.10 per kWh, and
- is updated annually.

1,800 kWh

ESTIMATED MONTHLY ELECTRIC USE

YOUR BILL

Your actual bill will depend on many factors:

- Weather (bills are higher in extreme heat and cold – especially if electric heat is used),
- Thermostat settings,
- Number of occupants,
- Lifestyle habits,
- Size and location of unit (upper floors and south and west facing units are generally warmer),
- Energy efficiency measures in place, and
- Age and type of heating/cooling equipment.

This property uses 15 % more energy per square foot than an average multi-family property in the Austin area. This may result in a higher electric bill than would be incurred in a similar unit in an average energy use property.

For details about energy use per square foot for Austin multi-family properties, visit austinenenergy.com/go/ECAD, call 482-5278, or see QR code:



I acknowledge that I have been given an opportunity to review the results of this multi-family property's energy audit conducted in accordance with Austin City Code, Chapter 6-7.

Signature/Date

Owner's Representative


Signature/Date



Updated Energy Audit Form

- First page now CoA rules-required form
- Data grouped together for better efficiency
 - Property ID block
 - Appliances/Water block
 - Attic Insulation/Air Infiltration block
 - Windows & Shading block
 - Heating & Cooling block
- Less redundancy over pages
 - Repetition only on summary page
 - Pages reduced: from 6 to just over 3 pages

In compliance with the
City of Austin's Energy Conservation
Audit and Disclosure Ordinance,
Austin City Code Chapter 6-7, June 2009.

 **SINGLE FAMILY
Energy Audit Data**

DATA SUMMARY Submission Date: _____

PROPERTY

Austin Energy Electric Meter Number _____ Tax Assessor's Property ID _____
Owner Name _____ Year Built _____
Street Address _____ Estimated Square Footage _____
City, State, Zip Code _____

AUDITOR

Auditor _____ Phone Number _____
Company Name _____ Property Audit Date _____

WINDOWS & SHADING

Type(s) of Window(s) _____
Type(s) of Existing Solar Shading _____

ATTIC INSULATION

Attic Insulation Type _____ Average R-Value _____
Open Chase(s) _____

HEATING & COOLING AIR DUCT SYSTEM

HVAC SYSTEM: Condenser: Manufacturing Date _____ Estimated EER _____
Furnace/AH: Manufacturing Date _____ Estimated AFUE _____
Pressure Leakage _____ % Leakage _____
Duct System Type(s) _____ No Duct System _____
Enrolled in the Austin Energy Power Partner Thermostat Program _____

ADDITIONAL SYSTEM: Condenser: Manufacturing Date _____ Estimated EER _____
Furnace/AH: Manufacturing Date _____ Estimated AFUE _____
Pressure Leakage _____ % Leakage _____
Duct System Type(s) _____ No Duct System _____
Enrolled in the Austin Energy Power Partner Thermostat Program? _____

AIR INFILTRATION/WEATHERIZATION

Exterior doors: weather-stripped or not weather-stripped? _____
Plumbing penetrations: sealed or unsealed? _____

ADDITIONAL AUDIT INFORMATION

Domestic Water Heater Type(s) _____
Type(s) of Toilet(s) _____

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