

Welcome to

# Live Green In Plano

## DIY HOME ENERGY EFFICIENCY 101

### ENERGIZE YOUR HOME

You can make a difference!

Energy Saving Ideas



There are ways to lower your utility bill, make your home more comfortable, safer and improving the indoor air quality.

Where does it start? It starts with control.

- ✓ Control your cost.
- ✓ Control your behavior.
- ✓ Control your contractors.
- ✓ Do it yourself.

**You've got the  
power.**

What is deregulation? How does it affect you? Take control!



# COST VS USAGE

- Cost-This is the price you pay per kilowatt hour for electricity.
- Usage-This is how many kilowatt hours you use during the billing cycle.

The average price your paid for electricity this month is \_\_\_\_cents per kwh.  
(kilowatt hour)

***This sentence is on YOUR electric bill.***

Ex: If you pay 14.7 cents and your neighbor pays 10.2 cents, he is paying 30% less than you!  
If you are paying 10 cents and he is paying 8, he is paying 20% less than you!  
Do the math here!

**PENNIES MATTER!**



Balance Forward  
Debits/Charges

\$ 0.00  
\$ 0.00

we will work to investigate the situation. If you are not satisfied with the resolution on the charges, you may file a complaint with the Public Utility Commission of Texas, PO Box 13326, Austin, TX 78711-3326; (512) 936-7120 or toll free in Texas (888) 782-8477. Hearing and speech-impaired individuals with text telephones (TTY) may contact the Public Utility Commission of Texas at (512) 936-7136.

**ESI ID Detail:**

Service Address: [REDACTED] DALLAS, TX 75211-5225

ESI ID: [REDACTED]  
Contract Expiration Date: 08/03/2011

The average price you paid for electric service this month was 11.2 cents per kWh excluding taxes and non-recurring charges or credits.

1. ESI ID - Typically starts with 1044372000-

2. IF YOU ARE IN A CONTRACT, LOOK FOR EXPIRATION DATE

Meter ID	Days in Reading	Read Type	Previous Read Date	Previous Meter Read	Current Read Date	Current Meter Read	Usage (kWh)	Multiplier	Billed Usage (kWh)
[REDACTED]	30	Actual	06/06/2011	7187	07/06/2011	8322	1135	1.00000	1135

Base Charge → PLAN

Energy Charge (1135 kWh x \$0.10327100) \$ 5.95

Subtotal \$ 117.21

Other Fees and TDU Surcharges \$ 123.16

Advanced Meter Charge \$ 2.10

**Your Electricity Usage**



**Detail**

Service Address: 635 HAMBRICK RD, DALLAS, TX 75218-1748

ESI ID: 10443720002671713

Contract Expiration Date: 07/31/2013

The average price you paid for electric service this month was 9.6 cents per kWh excluding taxes and non-recurring charges or credits.

Meter ID	Days In Reading	Read Type	Previous Read Date	Previous Meter Read
113068974LG	31	Actual	10/28/2012	25918

**TXU Energy Resident's Choice 12<sup>SM</sup>**

Energy Charge (1000 kWh x \$0.06600000) \$ 66.00

Energy Charge (644 kWh x \$0.05300000) \$ 34.13

Subtotal \$ 100.13

**Other Fees and TDU Surcharges**

TDU Delivery Charges \$ 58.03

Gross Receipts Reimb \$ 3.08

Subtotal \$ 61.11

Sales Tax \$ 1.61

**ESI ID Detail**

Service Address: 609 HAMBRICK RD, DALLAS, TX 75218-1748

ESI ID: 10443720002671650

Contract Expiration Date: 07/13/2013

The average price you paid for electric service this month was 41.5 cents per kWh excluding taxes and non-recurring charges or credits.

Meter ID	Days In Reading	Read Type	Previous Read Date	Previous Meter Read	C
113086304LG	31	Actual	10/28/2012	4536	11

**TXU Energy Resident's Choice 12<sup>SM</sup>**

Monthly Charge \$ 9.95

Energy Charge (51 kWh x \$0.06600000) \$ 3.37

Subtotal \$ 13.32

**Other Fees and TDU Surcharges**

TDU Delivery Charges \$ 7.85

Gross Receipts Reimb \$ 0.42

Subtotal \$ 8.27

Sales Tax \$ 0.22

# What the heck is a kilowatt hour?

**Before we see how much electricity costs, we have to understand how it's measured.**

When you buy gas they charge you by the gallon. How much is gas today per gallon?

When you buy electricity they charge you by the *kilowatt-hour (kWh)*. How much is electricity?

When you use 1000 watts for 1 hour, that's a kilowatt-hour.

For example:

Device	Wattage	Hours used	kWh
medium window-unit AC	1000 watts	one hour	1 kWh
large window-unit AC	1500 watts	one hour	1.5 kWh
small window-unit AC	500 watts	one hour	0.5 kWh
42" ceiling fan on low speed	24 watts	ten hours	0.24 kWh
light bulb	100 watts	730 hours (i.e., all month)	73 kWh
CFL light bulb	25 watts	730 hours	18 kWh

**To get kilowatt-hours, take the wattage of the device, multiply by the number of hours you use it, and divide by 1000.** (Dividing by 1000 changes it from watt-hours to kilowatt-hours.) That's exactly what I did in the table above.



**Here's the formula to figure the cost of running a device:**

**wattage x hours used ÷ 1000 x price per kWh = cost of electricity**

**For example, let's say you leave a 100-watt bulb running continuously (730 hours a month), and you're paying 15¢/kWh.**

Your cost to run the bulb all month is  $100 \times 730 \div 1000 \times 15¢ = \$10.95$ .

If your device doesn't list wattage, but it does list amps, then just multiply the amps times the voltage to get the watts.

For example:

$$2.5 \text{ amps} \times 120 \text{ volts} = 300 \text{ watts}$$







Behavior is not always  
how you act! Be aware!





When was the last time you cleaned your coil under the refrigerator?







CFL on left is 128°  
Incandescent is 160°









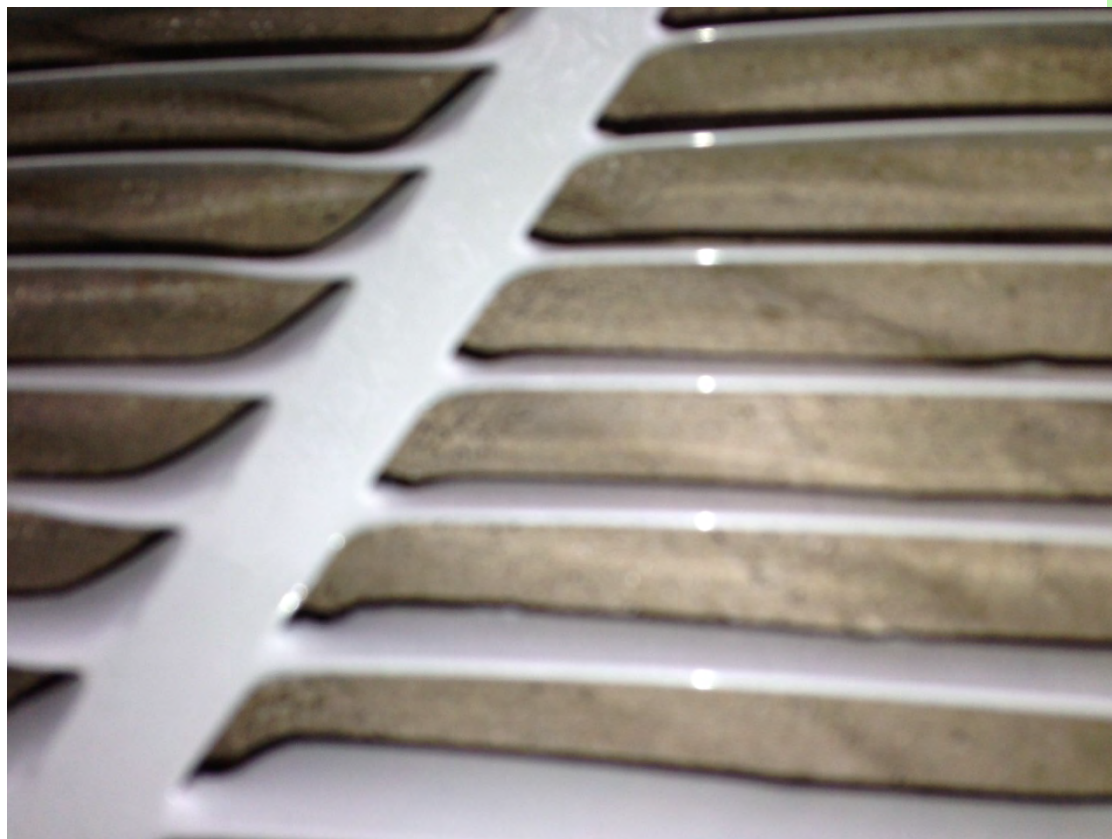


16,000 fires annually from clogged dryers and vents!













Customer:		100010309890
Account Number:		055026007604
Invoice Number:		
<b>Detail</b>		
nce	\$	946.36
ents		
ymment	02/10/2013 \$	946.36 CR
	\$	946.36 CR
ward	\$	0.00
rges	\$	0.00
<b>Detail</b>		
Address: 3629 BLOSSOM TRL, PLANO, TX 75074-4108		
443720003162188		
The price you paid for electric service this month was 12.1 cents per kWh		
taxes and non-recurring charges or credits.		

### Additio

This invoice indi  
taxes and other  
business plans.  
glad you've chos  
service. Want to  
txuexec@txu.co  
TX 75265-0764.  
at 1-800-242-91  
not satisfied with  
Commission of T  
Texas (888)782-  
may contact the















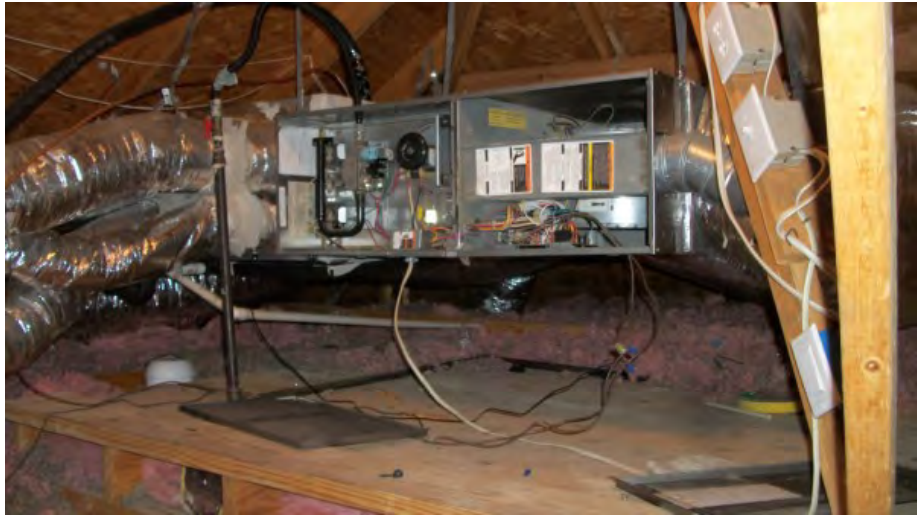












What's in your attic?





# WHAT IS A HOME ENERGY AUDIT?

## Home Energy Audit

- A comprehensive home energy audit will come with a written, detailed report. Typically, this is done thru an approved software program. The problem is, there are many software programs. REMRATE is the most widely recognized program and the primary program used for Energy Star compliance. This program is sanctioned by the National Association of Mortgage Industry. Banks sometimes use this report in determining energy upgrade compliance for new and existing homes. The tests we do on your home are the identical tests we do on a new home being built for compliance. The key here is this-there is a STANDARD to follow. Without a standard, an energy audit is whatever you and the person performing it agree on. Ask for a REM file, it's official.

## Home Energy Analysis

- On the other hand, we see many companies advertising “energy audits”. Beware, most of these companies are using it as a means of getting into your home to sell you their products without true consideration of a comprehensive home energy audit.( ie, radiant barrier, solar panels, etc) When asking about a home energy audit, be sure to clarify what it is you will be getting once the audit is complete to quantify the findings. Often times, we talk with consumers who tell us the person didn't leave them anything in writing. This is NOT good. In addition, ask for pictures. A good auditor will take photos from the beginning of the audit until it's complete documenting findings as they go. Pictures say a thousand words.









THANK YOU  
FOR ATTENDING  
**LEARN2LIVEGREEN**

**Please complete a paper evaluation  
form and drop it into the collection box  
as you exit the theater.**

**#L2LG2014**