



“KILL-A-WATT”

JANUARY NEWSLETTER

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JBSA ENERGY PROGRAM



Add Managing your homes energy and utilities consumption into your 2020 New Year Resolutions

RECOMMENDED STARTING POINT FOR HOME ENERGY MANAGEMENT

WHAT IS AN ENERGY AUDIT?

Energy Audit

There are different types of energy audits. This newsletter will cover energy audits for the do-it-yourselfer as well as energy audits that are done by professionals. In order to implement upgrades on any system, a walkthrough or inspection of a system's components will shed light on any issues that may be affecting the efficiency of your system. For example, taking a look at the air conditioning of your home may reveal that the air filter needs replacement or other routine maintenance items are needed. An energy audit will reveal the health of your system and determine the overall losses of energy derived from outdated, failing, or inefficient equipment that is on its last leg.

Do it yourself

Awareness of inefficiencies of your homes energy and water consumption can be as simple as a visual inspection. Visual inspections of deteriorating faucets, outdated bulbs, dirty air filters, clogged A/C coils, leaking sprinklers and other simple issues do not require expensive equipment. ENERGY STAR labeled products can save up to 30% on your energy bill. Systems that are recommended to inspect that will not require a large portion of your day include your homes'....

Lighting: Accounts to 12-13% of your homes electric consumption. Are all the bulbs in your house florescent, incandescent or LED?

Upgrade	Savings from Conversion
Incandescent to LED	85-87%
Compact Fluorescent to LED	40-45%
Fluorescent to LED	60%

Heating Ventilation and Air Conditioning "HVAC":

Accounts for 45-50% of your homes electric consumption. Is your house being cooled or heated while you are away? Is your thermostat



Incandescent Bulb



Compact LED Bulb



Compact Florescent



Fluorescent Bulb



LED Bulb



Smart Thermostat



programmable? Smart/Programmable thermostats if used correctly can save 10-30% on heating and cooling costs.

Plumbing:

Are your sinks, toilets, showers, or any orifices leaking? If not are they using more water than they need to accomplish their goal?

Avg. Residential Water Use Breakdown:

Appliance/Device	Household per Day	Percent of Total
Toilet	33 gallons	24%
Shower	28 gallons	20%
Faucet	26 gallons	19%
Washing Machine	23 gallons	17%
Leaks	17 gallons	12%
Bath	4 gallons	3%
Dishwasher	2 gallons	1%
Other	5 gallons	4%
Total	138 gallons	100%

Suggested Plumbing Upgrades/repairs:

Equipment	Upgrades or Repair
Faucet	Hands-free Touchless Operation shuts off automatically
Toilets	use 3-4 gallons less than full flush
Showers	low flow rate less than 2.5gpm
Miscellaneous	Fix Leaks

Hire a Professional

Professionals identify possible upgrades that may not be apparent without expensive equipment to inspect your home. Examples include your homes building envelope, underground plumbing, electrical faults, etc. Professionals can use high tech equipment to find air leaks on windows, doors, or other failing weathering in your home. Weatherization services, lighting services, landscaping services are available from local your local utility company.

INCENTIVES FOR MANAGING YOUR HOMES ENERGY

If the savings that can be achieved with making upgrades and repairs to your home are not enough maybe getting a rebate check will convince you. Rebate programs from CPS, SAWS, and other utility providers are available on their websites. Examples of some rebates that are available from a more efficient home are shown below. (*Note: all rebates shown are available on a first come first serve basis as well as are available for HOME OWNERS). The websites can be used for further details and qualifications for all Rebates and Coupons mentioned in this newsletter.



JBSA Energy Management Team and CPS 2019 Rebate Program

Equipment rebates from CPS may include:

- Central Air Conditioners - \$90-\$310/Ton Rebate
- Heat Pumps - \$90-\$310/Ton Rebate
- Window Units - \$15-\$25 Rebate
- Pool Pumps - \$150/HP Rebate
- Attic Insulation - \$0.25-\$0.35/SF Rebate
- Receive 85 dollars when you enroll your WI-FI thermostat in your home and 30 dollars every year that you keep the thermostat.
- Rebates of \$50 for each eligible tree planted for energy saving shade
- Bill credit up to \$60 for purchasing a qualifying green energy “electric” lawn mower

Available Rebates from CPS can be seen on their website for more details

- <https://www.cpsenergy.com/en/my-home/savenow.html?cid=new-homemaintile>

Watersaver rebates available from San Antonio Water System may include:

- Receive a \$100 coupon for converting your turf or backyard into a patio.
- Receive a \$100 coupon along with a \$50 dollar coupon for mulch when transforming your grass and sprinklers into new low water demand garden.

- Receive hundreds of dollars in cash when you remove or upgrade your irrigation system to meet certain SAWS requirements.
- Receive between \$500-\$2,000 dollars if you join there Cistern (Rain Water Collection Tank) program.
- SAWS will give you up to a \$250 credit on your water bill when you replace your pool's sand or diatomaceous earth (D.E.) filter(s) with a new high-efficiency cartridge filter system.
- Receive \$150 when you install a SAWS verified flow sensor device on your water system to detect leaks.

Available Rebates from SAWS can be seen on their website for more details

- <https://www.gardenstylesanantonio.com/coupons-and-rebates/>