




























HOME ENERGY CHECKLIST:









SIMPLE WAYS to SAVE ENERGY, SAVE MONEY, & REDUCE YOUR CARBON FOOTPRINT








√	ACTION	FAST FACTS	\$
LIGHTING			
	<ul style="list-style-type: none"> Replace 10 most frequently used incandescent light bulbs with Energy Star Compact Fluorescent Lights (CFLs) CFLs are available in different sizes, shapes, and wattages, for indoors and outdoors. CFLs are 2/3 more energy efficient and last 10 times as long. 	<ul style="list-style-type: none"> If every US household replaced 5 lights with ENERGY STAR bulbs, we could prevent the annual output of more than 21 power plants! Save about \$30 or more in electricity costs over each bulb's lifetime. Recycle your CFLs and dispose of them properly: www.deq.utah.gov/Pollution_Prevention/CFLs.htm 	
	<ul style="list-style-type: none"> Turn the lights off when not in the room. 	<ul style="list-style-type: none"> Save nearly 10% of a home's electricity costs by flipping the switch off. 	
REFRIGERATOR & APPLIANCES			
	<ul style="list-style-type: none"> My refrigerator and appliances are ENERGY STAR rated. 	<ul style="list-style-type: none"> Refrigerators account for 10% of your energy bill Refrigerators built prior to 1990 can use two to three times more energy than new efficient models. 	\$
	<ul style="list-style-type: none"> I have recycled my extra refrigerator(s). 	<ul style="list-style-type: none"> Prevent 4500 pounds of global warming pollution each year and save about \$150 a year on your electricity bill by discontinuing the use of a 2nd refrigerator. Rocky Mountain Power offers \$\$ to recycle old refrigerators, and they will pick it up from your home. Contact your local utility to see about similar programs. 	\$
	<ul style="list-style-type: none"> My refrigerator door closes firmly against the gasket. 	<ul style="list-style-type: none"> Check the tightness of the door by placing a flashlight inside the refrigerator and closing the door. If you see any light, replace the gasket. 	
	<ul style="list-style-type: none"> My refrigerator temperature is set to 37° to 40°F for the fresh food compartment and 5°F for the freezer section. If I have a separate freezer for long-term storage, I keep it at 0°F. I regularly defrost my freezer. 	<ul style="list-style-type: none"> Place an inexpensive appliance thermometer in a glass of water in the center of the refrigerator and one between frozen packages in the freezer. Read them after 24 hours. 	
	<ul style="list-style-type: none"> My refrigerator coils (located beneath or behind) are cleaned at least once a year. 	<ul style="list-style-type: none"> Refrigerator coils are heat exchange surfaces. Keep them clean to operate at peak efficiency. Unplug the refrigerator before cleaning the coils with a vacuum cleaner or soft brush. 	

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	<ul style="list-style-type: none"> Appliances with adaptors, lights, clocks are unplugged or plugged into a power strip, which I switch off when not in use. 	<ul style="list-style-type: none"> In the average US home, 40% of all electricity used to power home electronics is consumed while the products are turned off. Across the US, this equals the annual output of 17 power plants. Many appliances use energy when they are plugged in but not on (called “phantom loads”) Use power strips to shut off any power to the electronics at night and during the day. ENERGY STAR products save energy while in the ‘off’ mode. 	
LAUNDRY & DISHES			
	<ul style="list-style-type: none"> My dishwasher and/or clothes washer are ENERGY STAR rated. 	<ul style="list-style-type: none"> Compared to a model manufactured before 1994, an ENERGY STAR rated clothes washer can save up to \$110 per year on your utility bills and save more than 20 gallons of water per load. 	\$
	<ul style="list-style-type: none"> The dishwasher, washer and dryer are run only when they are fully loaded. I don’t use a dishwasher, I dry my dishes on a drying rack. I use the energy-saving mode on the dishwasher, washer and dryer, if they have one. 	<ul style="list-style-type: none"> Run your dishwasher with a full load, since most of the energy used goes to heat water. The “Energy-Saving” setting uses less water and less energy to wash and dry dishes and/or clothes. 	
	<ul style="list-style-type: none"> I wash my clothes in cold water. 	<ul style="list-style-type: none"> Using cold water for laundry saves up to \$63 a year while saving energy. Look for cold water laundry detergent. 	
	<ul style="list-style-type: none"> I dry my clothes on a clothes line or drying rack 	<ul style="list-style-type: none"> Prevent 1000 pounds of carbon dioxide annually by drying your clothes outside 6 months per year. 	
	<ul style="list-style-type: none"> I use a front loading laundry machine. 	<ul style="list-style-type: none"> Get a rebate from your utility for highly efficient washers and dryers. You’ll save water too! 	\$
COOKING			
	<ul style="list-style-type: none"> I use an induction cooktop, a solar oven, or a hybrid solar oven (see: www.solarcooking.org or google “solar ovens”) 	<ul style="list-style-type: none"> Induction cooktops use 90% of the energy produced compared to only 55% for a gas burner and 65% for traditional electric ranges. Solar ovens require no fuel of any kind to cook and reach temperatures of 360° - 400° F. 	

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		<ul style="list-style-type: none"> Hybrid solar ovens use electric backup for use when sun power is not available. 	
	<ul style="list-style-type: none"> I don't preheat longer than necessary, and I bake as many dishes in the oven as I can at one time to make the most of the heat. I use pots and pans that fit the stovetop burners and use a lid to reduce cooking time and energy use. I keep the oven door closed and look through the window to check on my food. 	<ul style="list-style-type: none"> Ten minutes for preheating is sufficient, and it's not necessary to preheat if you're roasting, broiling or preparing foods with a cooking time of over an hour. Pans that fit a burner absorb more energy, reducing the amount of wasted heat. Oven temperature is lowered by 25°F to 75°F every time you open the door. 	
WATER			
	<ul style="list-style-type: none"> I have aerator faucets and low-flow showerheads. 	<ul style="list-style-type: none"> Inexpensive and simple to install, low-flow shower heads and faucet aerators can reduce your home water consumption as much as 50%, and reduce your energy cost of heating the water also by as much as 50%. See Questar Gas' www.thermwise.com for more info 	\$
	<ul style="list-style-type: none"> None of my faucets have leaks, especially my hot water faucets. 	<ul style="list-style-type: none"> Water leaks are just money, water, and energy down the drain. Repair leaky faucets as quickly as possible; a slow drip could waste up to 48 gallons of water a week. 	
	<ul style="list-style-type: none"> My hot water heater thermostat is set to 120° F (be sure to check your dishwasher's manual for the appropriate water temperature) 	<ul style="list-style-type: none"> For each 10°F reduction in water temperature, you can save between 3%–5% in energy costs. Reducing your water temperature to 120°F slows mineral buildup and corrosion in your water heater and pipes. 	
	<ul style="list-style-type: none"> My water heater is properly insulated with a water heater blanket, and my hot water pipes are covered with sleeve insulation. 	<ul style="list-style-type: none"> Hot water heater blankets cost only around \$10 (Questar Gas provides them free with a self home energy audit). You can recoup the cost of the blanket in less than a year from energy savings. 	\$
	<ul style="list-style-type: none"> I turn my water heater down, when I leave for a week or more. 	<ul style="list-style-type: none"> Remember to turn it back up when you return. 	
	<ul style="list-style-type: none"> My hot water heater is ENERGY STAR rated I have a tankless ('on-demand') hot water heater <i>or</i> I have a solar thermal system 	<ul style="list-style-type: none"> Water heating is 13% of your utility bill. Consider upgrading if your water heater is more than 7 years old. Questar Gas offers rebates for all of these options, 	\$

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		see www.thermwise.com for more info.	
HEATING & COOLING			
	<ul style="list-style-type: none"> I have and use a programmable thermostat to automatically adjust the temperature throughout the week and when away. 	<ul style="list-style-type: none"> A properly used programmable thermostat can save as much as 10% a year on heating and cooling bills by automatically adjusting the thermostat while you are away or sleeping. They are easy to set according to your schedule. 	
	<ul style="list-style-type: none"> WINTER: I set the thermostat at 68° F or lower when I am home during the winter. When I am away for 4 or more hours, it is set at 55° F and I lower my thermostat at night while I am asleep. SUMMER: I set the thermostat at 78° F or higher when I am home during the summer. When I'm away for 4 hours or more it is set at 85° F. 	<ul style="list-style-type: none"> For every degree you lower your heat, you save up to 5% on heating costs. Reduce global warming pollution by 20% - 50% through proper heating and cooling equipment maintenance, upgrades, appropriate insulation, air sealing, and thermostat settings. 	
	<ul style="list-style-type: none"> I use solar passive heating during the winter by opening the drapes/blinds on south-facing windows to let the sun shine in to heat my home. At night, I close the drapes to retain indoor heat. 	<ul style="list-style-type: none"> In the summer, do the opposite by closing your drapes during the day to keep out the sun's warm rays. 	
	<ul style="list-style-type: none"> My furnace and A/C filters are clean; I replace filters monthly during the heating and cooling season. 	<ul style="list-style-type: none"> Clean furnaces run more efficiently saving energy and money. 	
	<ul style="list-style-type: none"> I close and seal the fireplace damper when I am not using it. 	<ul style="list-style-type: none"> Closing the damper prevents heat/cold air from escaping. Special damper seals are available. 	
	<ul style="list-style-type: none"> I have an evaporative or "swamp" cooler. 	<ul style="list-style-type: none"> Cooling accounts for 30% of home energy use. Evaporative coolers are the most efficient way to cool in the southwest's arid climate and they use 1/5 the energy of a central air conditioner. If you have an air conditioner, make sure it has an ENERGY STAR label with a SEER rating of 13 or above. 	\$

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	<ul style="list-style-type: none"> I have installed an ENERGY STAR ceiling fan. 	<ul style="list-style-type: none"> ENERGY STAR rated ceiling fans make a room feel 5°F cooler and are 50% more efficient than conventional fans. In the winter, set your fan to turn in the clockwise direction to help efficiently distribute warm air. 	\$
	<ul style="list-style-type: none"> I keep my windows and doors shut while heating or cooling (A/C only) I shut the door to unused rooms and close off any vents, so as to not heat or cool the room. 	<ul style="list-style-type: none"> NOTE: A cracked window is necessary for air flow with an evaporative cooling system. NOTE: Do not close the vents if you heat your house with a heat pump – closing the vents could harm the heat pump. 	
	<ul style="list-style-type: none"> My vents, radiators, heating and cooling equipment are not blocked by furniture, rugs, drapes, etc. 	<ul style="list-style-type: none"> Adequate space around heating and cooling equipment allows it to operate efficiently. 	
	<ul style="list-style-type: none"> My air ducts are properly sealed and insulated. 	<ul style="list-style-type: none"> Leaking ducts can reduce system efficiency up to 30%. Seal leaks with mastic or non-cloth backed tape labeled UL181 B-FX.. This is especially important for ducts located in unconditioned space, such as your attic. 	\$
HOME SEALING and INSULATION			
For more Home Sealing Information, download the free EPA ENERGY STAR “Do-It-Yourself Home Sealing Guide”. See the “Additional Resources” section for a link.			
	<ul style="list-style-type: none"> My walls, floors, basement and ceiling are properly insulated according to my climate zone. 	<ul style="list-style-type: none"> Increased insulation could cut heating and cooling costs 20% - 30% and make your home more comfortable. Visit www.ornl.gov/~roofs/Zip/ZipHome.html to find out what is appropriate for your location. 	\$
	<ul style="list-style-type: none"> I have checked my roof, walls, doors, ceilings and windows for leaks and sealed them appropriately. 	<ul style="list-style-type: none"> Hire a contractor or see the “Do-It-Yourself Home Sealing Guide” for proper sealing methods. 	\$
	<ul style="list-style-type: none"> My doors and windows have weather-stripping between them and the frames. 	<ul style="list-style-type: none"> Weather stripping ensures a tight fit for doors and windows, avoiding drafts and air leaks. 	\$
	<ul style="list-style-type: none"> I have high-efficiency ENERGY STAR rated double-paned windows or storm windows or I put up plastic sheeting around my windows during winter. 	<ul style="list-style-type: none"> Energy-efficient windows can save up to 30% on your heating and cooling costs. 	\$

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COMPUTERS and ELECTRONICS			
	<ul style="list-style-type: none"> My home computer(s) is/are powered down when not in use. 	<ul style="list-style-type: none"> If you can't turn your computer off, be sure to use the "Energy-Saving" mode and turn off your monitor. 	
	<ul style="list-style-type: none"> My computers are automatically set to go into standby mode or "sleep" after 20 minutes of inactivity. 	<ul style="list-style-type: none"> When you know you will be gone for a few hours, put your computer in standby mode or turn it off to save energy. 	
	<ul style="list-style-type: none"> All other equipment (scanners, printers, copiers, etc.) are turned off when not needed for more than 2 hours. 	<ul style="list-style-type: none"> Buy ENERGY STAR qualified equipment to reduce energy use while in standby mode. Computers and office equipment do not need to stay 	
	<ul style="list-style-type: none"> My equipment, electronics and computers are ENERGY STAR rated. 	<ul style="list-style-type: none"> Over its lifetime, ENERGY STAR qualified equipment in a single home office (e.g., computer, monitor, printer, and fax) can save enough electricity to light an entire home for more than 4 years. 	
	<ul style="list-style-type: none"> I turn off, computers, printers, TV's, DVD's, speakers, and other electronics when not in use. I plug my electronics into a power strip and turn the power strip off when not in use. 	<ul style="list-style-type: none"> 	
OUTDOORS			
	<ul style="list-style-type: none"> My outdoor lights are on a programmable timer or motion sensor, and have been upgraded with energy efficient light fixtures. 	<ul style="list-style-type: none"> Better yet, upgrade to solar powered lights which charge their batteries during the day, come on at night, and don't require any electricity from the grid. 	
	<ul style="list-style-type: none"> Trees and shrubs are planted around my house in such a way as to provide shade in the summer and shelter from the wind. 	<ul style="list-style-type: none"> Deciduous (leaf-shedding) trees and shrubs on the south side, shade during the summer and allow sun through in the winter. Trees and shrubs can provide shelter from cold winds when strategically planted. 	

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RENEWABLE ENERGY FOR YOUR HOME			
  	<ol style="list-style-type: none"> 1) Determine how much electricity and/or natural gas you use, on average, over the course of a year. You can do this by looking at your power bills or by contacting the power companies and requesting a summary of your usage history. 2) Use this checklist to reduce your home energy consumption. 3) Choose which renewable energy technology and determine whether you are interested in technologies for electricity, water, and/or space heating. Solar thermal, geothermal, solar photovoltaic, wind, and microhydro have different costs, applications and technologies. For more information on the various technologies, visit: www.utahcleanenergy.org, geology.utah.gov/sep/renewable_energy/index.htm, or www.eere.energy.gov. 4) Contact dealers and installers in your area to start getting an idea of costs. A list of dealers and installers for each technology is available on line at www.geology.utah.gov/sep/renewable_energy/index.htm 5) Net metering agreement. If you will be connecting with the grid, you will want to let your utility know you are planning to install a system and will be net metering. 6) Apply for Utility Rebates, State, and Federal Tax Credits. Familiarize yourself with, and be sure your contractor understands the requirements for any incentives. For information on available incentives, visit: www.utahcleanenergy.org/eepolicy/REIncentives.htm 	\$	
ADDITIONAL RESOURCES			
	<ul style="list-style-type: none"> ✦ Utah Energy Conservation Coalition: www.utahenergy.org ✦ US Environmental Protection Agency ENERGY STAR Program: www.energystar.gov ✦ A Do-It-Yourself Guide to ENERGY STAR Home Sealing: www.energystar.gov/ia/home_improvement/home_sealing/DIY_COLOR_100_dpi.pdf ✦ Department of Energy’s Consumer’s Guide to Energy Efficiency and Renewable Energy http://www.eere.energy.gov/consumer/ ✦ Energy Efficiency and Renewable Energy Network (EREN): www.eren.doe.gov ✦ Alliance to Save Energy: www.ase.org ✦ American Council for an Energy-Efficient Economy: www.aceee.org ✦ Rocky Mountain Power: www.rockymountainpower.net ✦ Consumer Federation of America www.buyenergyefficient.org ✦ Consumer Reports www.greenerchoices.org ✦ Southwest Energy Efficiency Project http://www.swenergy.org/ 		

This Energy Efficiency Audit was adapted by **Utah Clean Energy** from Alliance to Save Energy’s Home Energy Audit and Power\$mart Brochure, www.ase.org; American Council for an Energy –Efficient Economy’s Home Energy Checklist for Action, www.aceee.org; and Energy Efficiency and Renewable Energy Network’s Energy Savers Brochure, www.eren.doe.gov. **Utah Clean Energy thanks the Utah Geological Survey – State Energy Program and the George S. and Dolores Doré Eccles Foundation for their contributions to our Clean Energy Campaign.**