Do-It-Yourself Home Energy Audit Checklist

This energy audit checklist is a simple procedure that will allow you to appraise the energy efficiency of your home. By completing the energy audit checklist you will be able to spot areas that need improvement in the way you use energy.

- 1. Before you start the energy audit make sure you understand the terms used in the energy audit checklist.
- 2. Make sure you understand any safety and health issues.
- 3. Plan to spend two hours to complete your energy audit.
- 4. Fill in your checklist as you go by circling the answer that describes the way that you use energy.
- 5. When you are finished, add up your symbols (©=good energy performance, ©= medium energy performance) and enter them into table.
- 6. Review each item that may need improvement in terms of energy efficiency (Sections 1-8). Estimate how much you need to spend for each conservation measure. You can speak to a professional or your utility service to estimate the payback time of each upgrade.
- 7. Evaluate your habits/daily activities to determine what you can do to improve them (Section 9). Consider simple changes that have little or no-cost to make a meaningful impact on your overall energy performance. Commit to energy-saving changes and write them down.

Do you prevent air leakage? (by weatherstripping, sealing)					COMMENT				
		8	0		You will reduce your heating and cooling costs and make you comfortable and healthy if you use appropriate sealing and				
Windows			Y						
			Yes		weatherstripping. Sealing and weatherstripping will complement your insulation.				
Light switches/ Electrical	outlets		Y		insulation.				
Exhaust fans	outicts		Yes		1				
			Yes						
Basement/Attic/Crawl sp	ace		Yes						
Fireplace & duct penetra		I I		Yes					
			Y		-				
Living areas			Yes		1				
2. INSULATION		1 - 1							
Is your home insulated?					COMMENT	Γ			
				Insulation may cut your cooling and heating costs 20 – 30 percent and					
Θ		©		increase comfort of your home. Learn about insulation tailored to your					
Living Areas No			Yes, R-Value		zip code at http://www.ornl.gov/~roofs/Zip/ZipHome.html				
Attic No			Yes, R-Value						
Basement No			Yes, R-Value						
Floor No		Yes, R-Value							
3. HOUSE HEAT	TING S	YSTEM							
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c					\odot	COMMENT		
How efficient is your house heating system?	68–72 percent AFUE/Natural draft creates a flow of combustion gases/Continuous pilot light/Heavy heat exchanger			80–83 percent AFUE/Exhaust fan controls the flow of combustion air and combustion gases precisely/Electronic ignition/Compact size and lighter weight		90–97 percent AFUE/Condensing flue gases in a second heat exchanger for extra efficiency/Sealed combustion	An efficient heat system could save you up to 30 percer on your energy cost.		

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4. WATER HEAT	IING					
	8	©	©		COMMENT	
How efficient is your water heating system?	My water heater is over lyears old and not insulate	My water heater is over 15 years old, properly insulated with a water heater blanket. My hot water pipes are covered with sleeve insulation.		My hot water heater is Energy Star® rated/I have a tankless hot water heater/I have a solar thermal system	percent of your utility bill.	
My showerhead has flow rate of	5.5 gpm	2.5 gpm -5.5 gmp		less than 2.5 gpm	Low-flow fixtures save water by 25-60 percent.	
My hot water heater thermostat is set	at 120° F	between 120 ° F and 240	° F	above 140° F	You can save 3–5 percent in energy costs for each 10° F reduction in water temperature.	
5. APPLIANCES						
	8	©	COMME	COMMENT		
My refrigerator is Energy Star® rated	False	True	Efficient models use 20 percent less energy than conventional models			
My A/C Unit is Energy Star® rated	False	True	Energy Star® a/c central units have 14% more efficiency than standard models and can save 30 percent in cooling costs. Energy Star® a/c room units use 10 percent less energy than conventional models.			
My dishwasher is Energy Star® rated	False	True	Efficient units save 1,300 gallons of water over its lifetime.			
My freezer is Energy Star® rated	False	True	Efficient models use 10 percent less energy than conventional models			
My clothes washer is Energy Star® rated	False	True	Efficient models use 50 percent less water per load and use 270 kWh of electric per annum. Choose a unit with a cold water option. For best performance choose front loaders.			
My cooktop/oven is	Gas burner/ traditional electric	Induction cooktop/solar oven/ hybrid solar oven				
6.COMPUTER/E	ELECTRONICS					
	\odot	\odot	COMMENT			
My computer/display is Energy Star® rated	False	Ггие	Efficient models use up to 65 percent less energy than conventional models.			
My imaging equipment is Energy Star® rated	3 0.20	Ггие		ficient models use 40 percent less energy than conventional models.		
My audio/video equipment is Energy Star® rated	False	Γrue	Efficient n	t models use up to 60 percent less energy than conventional models.		

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My television is Energy Star® rated	False	True	Efficient models	Efficient models use 40 percent less energy than conventional models.			
7. DOORS AND V	WINDOWS						
	(3)	©	COMMENT	COMMENT			
My windows are Energy Star® rated	False True		To save up to 30 windows.	To save up to 30 percent on your cooling and heating consider energy-efficient windows.			
My doors are Energy Star® rated	False	True					
8. LIGHTING							
	(3)	(2)	\odot	COMMENT			
For indoor lighting I use mostly	Traditional Incandescent	Energy-Saving Incandescent compact	fluorescent lamps light emitting diodes (LED)	Fluorescent lights use much less energy than traditional incandescent lights.			
For outdoor lighting I use mostly	Traditional Incandescent	Efficient, with motion sensor	Solar	Solar lights do not need electricity to operate.			
9. HABITS							
	8	(1)	\odot	COMMENT			
How do you regulate the temperature at home?	I do not regulate the temperature.	I manually regulate the temperature	I use a programmable thermostat to automatically regulate the temperature	To meaningfully improve your energy performance combine energy efficiency with energy sufficiency and smart habits. A programmable thermostat can save up to 10 percent per annum on your total costs.			
When I am at home in winter, my living room temperature is	75° F/higher	72° F	68° F/lower	Lower the thermostat of heaters by 1° F in winter to reduce energy use by 5 percent.			
When I am at home in summer, my living room temperature is	70° F/lower	74° F	78° F/higher	Raise the thermostat of a/c units by 1° F in summer to reduce energy use by 5 percent.			
I heat and cool	Whole house	Living spaces	Rooms that people are in	Heat and cool only rooms that you are using.			
What do you use for cooling?	A/C system	Single room air conditioner	Ceiling fans and night breezes	Ceiling fans improve comfort substantially and complement a/c units. Do not forget to reverse the fan direction in winter.			
Do you have a second fridge/freezer?	Yes, always running	Yes, running only when needed	No second fridge or freezer				
Yes, heated, filter always running Yes, solar/not heated/ filter runs for 6hrs daily/ cleaned regularly		No	Think about a solar pool blanket & heater. Salt water chlorinators use twice as much energy to run. Keep your filters clean.				

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HABITS, CONTINUED			
	8	<u></u>	COMMENTS
I close the doors when I leave the room during the cooling and heating season.	False	True	
My furnace and A/C filters are clean; I replace filters monthly during the heating and cooling season.	False	True	
I turn the lights off when not in the room.	False	True	
I take 2-minute showers	False	True	Take short showers instead of baths and long showers.
My refrigerator coils are cleaned at least once a year.	False	True	Lint buildup on coils, makes the engine works hard thus utilizing more energy.
My appliances are unplugged when not in use.	False	True	When you are gone, even for a few hours, unplug your appliances to save energy.
I wash my clothes in cold water	False	True	Most of the energy used in washing clothes comes from heating the water. By washing your clothes in cold water you can save up to \$63 annually.
I dry my clothes on a clothes line or drying rack	False	True	If you do not use your dryer 6 months/year you can prevent 1,000 pounds of CO2/year. If you are considering a new dryer choose an energy efficient unit with a moisture sensor.
The dishwasher and washer are run only when they are fully loaded	False	True	
Trees, vines and shrubs provide shade to my house/I have the Energy Star roof	False	True	Plants that provide shade can cool down your home by 3-6 degrees and save you up to 25 percent of household energy use. You can lower the temperature of your roof by installing sheet covering, reflective paint or reflective shingles.
The fresh food compartment of my refrigerator temperature is set to 37-40°F. The freezer section is set to 5°F.	False	True	
I close and seal the fireplace damper when I am not using it	False	True	Closing the damper prevents heat/cold air from escaping.
I have installed blinds/thermal drapes on my windows. In winter, I open the drapes/blinds to use the solar passive heating. In summer, I close the drapes to insulate my windows from the warm summer heat.	False	True	
I air dry dishes instead of using my dishwasher's drying cycle	False	True	Dishwashers use 80 percent of its energy to generate heat.
I harness the power of the wind/and/or sun to generate electricity in my home	False	True	
I recycle/donate my old appliances as appropriate	False	True	

10. SUMMARY AND ACTIONS	Your results	What can you do?	By when?	How much do you need to spend?
1. AIR LEAKAGE	⊗= ⊚=			
2. INSULATION	⊗= ©=			
3. HOUSE HEATING SYSTEM	©= ©= ©=			
4. WATER HEATING	©= == ==			
5. APPLIANCES	©= ©=			
5.COMPUTER/ ELECTRONICS	©= ©=			
6. DOORS AND WINDOWS	(S)= (S)=			
7. LIGHTING	(3)= (2)= (3)=			
8. HABITS	⊗= ⊕= ⊕=			

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