





Grayson Rural Electric

A Touchstone Energy Cooperative 
The power of human connections

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PUBLIC SERVICE COMMISSION

How Your Home Uses Energy

<i>model baseline</i>	Elec	Gas	Propane	Wood/Coal
 Heating	10,700 kWh	0 kBTU	0 kBTU	0 kBTU
 Cooling	1020 kWh	0 kBTU	0 kBTU	
 Base	9550 kWh	0 kBTU	0 kBTU	
Total (yr)	21,270 kWh	0 kBTU	0 kBTU	0 kBTU
	20900 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Add Vaulted Ceiling Insulation.
- Add Crawlspace Wall Insulation.
- Add Rim Joist Insulation.
- Spray foam improvements listed elsewhere will greatly reduce air leakage as well.
- Seal brick to wall at great room fireplace.
- Reduce house air leakage to 2240 cfm50.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
5027 kWh (Elec)	4,657 kWh (Elec)	4,657 kWh	0.11 /kWh	\$512
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$43
before monthly How\$mart Charge

Financing

<p>\$6,400.00 Cost of Improvements (est):</p> <p>\$1,280.00 Kentucky Home Performance</p>	<p>\$5,120.00 Utility Contribution</p> <p>\$5,257 Not to Exceed Amount (90% of Savings)</p> <p>@ 3% over 15 years</p> <p>\$37 Monthly Charge</p> <p>87% of projected savings</p>
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Next Steps

1. Sign Purchase Agreement
 2. Select contractor and schedule the job
 3. Energy Specialist returns to inspect completed work
 4. Savings begin and installments charge appears on utility bill.
- If, after operation, any of the upgrades fail, the Utility will reevaluate the work.

Acceptance:

I understand that:

Values on previous page are estimates only and are not a guarantee of savings. Energy savings are a best-effort estimation calculated using a computer model. The model takes into account previous usage and characteristics of the house to determine usage and potential savings. Actual savings will vary depending on behavior, weather events, maintenance of the efficiency improvements, and future utility rates.

The Utility has explained what I can do to reduce my energy consumption including, but no limited to: thermostat and other equipment settings, the impact of lighting changes, and additional appliance or home investments not covered under How\$martKY.

Value of the improvements (cost of work) is an estimate and will be verified with the selected contractor. Final monthly charge will be determined at the time of contractor selection. If final project cost is more than the "not to exceed" amount, then customer may opt out of the installation.

Non-payment of the charge will be treated like non-payment of the utility bill potentially resulting in disconnection of service.

The Kentucky Energy Retrofit Rider (marketed as How\$martKY) is a voluntary utility tariff that amortizes the cost of the efficiency improvement over the course of fifteen years or 75% of the expected life of the improvement (whichever is less) at a fixed interest rate. The expected cumulative cost to the customer over the course of the payback period of the improvements is as follows:

	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$37	\$38		
Capital Investment	\$5,120	\$5,257		
Project Fee(s)	4.50% \$230	\$237	Payback Period (years)	15
Capital Fee	0.50% \$26	\$26	Cost of Capital	3%
Total Interest over life of payback	<u>\$1,332</u>	<u>\$1,422</u>		
Total Cost over life of payback	\$6,683	\$6,916		

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How Your Home Uses Energy

<i>model baseline</i>	Elec	Gas	Propane	Wood/Coal
Heating	10,100 kWh	0 kBTU	0 kBTU	0 kBTU
Cooling	855 kWh	0 kBTU	0 kBTU	
Base	11400 kWh	0 kBTU	0 kBTU	
Total (yr)	22,355 kWh	0 kBTU	0 kBTU	0 kBTU
	22300 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Replace HVAC Heating with New HVAC Heating System.
- Replace HVAC Cooling with New HVAC Cooling System.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
3170 kWh (Elec)	3,115 kWh (Elec)	3,115 kWh	0.11 /kWh	\$343
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$29
before monthly How\$mart Charge

Financing

\$3,900.00 Cost of Improvements (est):
\$780.00 Kentucky Home Performance

\$3,120.00 Utility Contribution
\$3,517 Not to Exceed Amount (90% of Savings)

@ 3%
over 15 years

\$23 Monthly Charge
79% of projected savings

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	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$23	\$26		
Capital Investment	\$3,120	\$3,517		
Project Fee(s)	4.50% \$140	\$158	Payback Period (years)	15
Capital Fee	0.50% \$16	\$18	Cost of Capital	3%
Total Interest over life of payback	<u>\$812</u>	<u>\$951</u>		
Total Cost over life of payback	\$4,072	\$4,626		

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How Your Home Uses Energy

model baseline		Elec	Gas	Propane	Wood/Coal
	Heating	4,820 kWh	0 kBTU	0 kBTU	0 kBTU
	Cooling	1700 kWh	0 kBTU	0 kBTU	
	Base	14500 kWh	0 kBTU	0 kBTU	
=	Total (yr)	21,020 kWh	0 kBTU	0 kBTU	0 kBTU
		21100 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Install Programmable Thermostat.
- Replace HVAC Heating with New HVAC Heating System.
- Seal Duct Work to 10% of fan capacity.
- Replace HVAC Cooling with New HVAC Cooling System.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
3468 kWh (Elec)	3,548 kWh (Elec)	3,548 kWh	0.11 /kWh	\$390
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$33
before monthly How\$mart Charge

Financing

\$4,250.00 Cost of Improvements (est):

\$850.00 Kentucky Home Performance

\$500.00 Rebates - Utility

\$2,900.00 Utility Contribution

\$4,005 Not to Exceed Amount (90% of Savings)

@ 3%
over 15 years

\$21 Monthly Charge
65% of projected savings

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	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$21	\$29		
Capital Investment	\$2,900	\$4,005		
Project Fee(s)	4.50% \$131	\$180	Payback Period (years)	15
Capital Fee	0.50% \$15	\$20	Cost of Capital	3%
Total Interest over life of payback	<u>\$755</u>	<u>\$1,083</u>		
Total Cost over life of payback	\$3,785	\$5,269		

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How Your Home Uses Energy

model baseline		Elec	Gas	Propane	Wood/Coal
	Heating	7,760 kWh	0 kBTU	0 kBTU	0 kBTU
	Cooling	1780 kWh	0 kBTU	0 kBTU	
	Base	12600 kWh	0 kBTU	0 kBTU	
=	Total (yr)	22,140 kWh	0 kBTU	0 kBTU	0 kBTU
		22100 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Add Crawlspace Wall Insulation.
- Add open cell spray foam insulation to underside of roof deck and gable ends
- Install new, air sealed pull down staircase at original attic access.
- Add Rim Joist Insulation.
- Seal Duct Work to 150 cfm or lower. Make sure returns are adequately sized.
- Replace one 60x66 single pane window with a double pane window.
- Reduce the whole house air leakage from 3200 to 2000 cfm50.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
2750 kWh (Elec)	2,710 kWh (Elec)	2,710 kWh	0.11 /kWh	\$298
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$25
before monthly HowSmart Charge

Financing

\$4,750.00 Cost of Improvements (est):

\$1,250.00 Customer Paid for Item(s)

\$0.00 Kentucky Home Performance

\$500.00 Rebates - Utility

\$3,000.00 Utility Contribution

\$3,059 Not to Exceed Amount (90% of Savings)

@ 3%

over 15 years

\$22 Monthly Charge

88% of projected savings

Next Steps

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	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$22	\$22		
Capital Investment	\$3,000	\$3,059		
Project Fee(s)	4.50% \$135	\$138	Payback Period (years)	15
Capital Fee	0.50% \$15	\$15	Cost of Capital	3%
Total Interest over life of payback	<u>\$781</u>	<u>\$827</u>		
Total Cost over life of payback	\$3,916	\$4,024		

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How Your Home Uses Energy

<i>model baseline</i>	Elec	Gas	Propane	Wood/Coal
 Heating	9,450 kWh	0 kBTU	0 kBTU	0 kBTU
 Cooling	0 kWh	0 kBTU	0 kBTU	
 Base	9300 kWh	0 kBTU	0 kBTU	
Total (yr)	18,750 kWh	0 kBTU	0 kBTU	0 kBTU
	18400 kWh	0 kBTU	0 kBTU	0 kBTU

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How Your Home Could Save Energy

- Replace HVAC Heating with New HVAC Heating System.
- Seal Duct Work to 10% of fan capacity.
- Install Programmable Thermostat.
- Replace HVAC Cooling with New HVAC Cooling System.
- 3. Repair skirting and belly wrap.
- 2. Seal top plate and windows.
- 1. Replace broken window.
- Reduce the house leakage to below 1500 cfm50.
- Repair and/or replace floor insulation and belly wrap as needed.
- Repair bad subfloor in master bedroom.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
5935 kWh (Elec)	5,585 kWh (Elec)	5,585 kWh	0.11 /kWh	\$614
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$51
before monthly How\$mart Charge

Financing

\$9,500.00	Cost of Improvements (est):	\$6,300.00	Utility Contribution
\$0.00	Kentucky Home Performance	\$6,305	Not to Exceed Amount (90% of Savings)
\$3,200.00	Customer Contribution	@ 3%	
		over 15	years
		\$46	Monthly Charge
		89%	of projected savings

Next Steps

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	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$46	\$46		
Capital Investment	\$6,300	\$6,305		
Project Fee(s)	4.50% \$284	\$284	Payback Period (years)	15
Capital Fee	0.50% \$32	\$32	Cost of Capital	3%
Total Interest over life of payback	<u>\$1,639</u>	<u>\$1,705</u>		
Total Cost over life of payback	\$8,223	\$8,294		

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How Your Home Uses Energy

<i>model baseline</i>		Elec	Gas	Propane	Wood/Coal
	Heating	12,900 kWh	0 kBTU	0 kBTU	0 kBTU
	Cooling	2530 kWh	0 kBTU	0 kBTU	
	Base	14800 kWh	0 kBTU	0 kBTU	
=	Total (yr)	30,230 kWh	0 kBTU	0 kBTU	0 kBTU
		30300 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Add Crawlspace Wall Insulation.
- Add Rim Joist Insulation.
- Add Spray foam Insulation to underside of roof deck and gables.
- Rework Ducts and Seal to 10% of fan capacity.
- Reduce house leakage to 1850 cfm50.
- 4. Caulk trim at garage ceiling.
- 3. Install DAP spray foam at garage baseboard.
- 2. Seal exterior doors by adjusting latches and / or adding new weatherstripping.
- 1. Finish trim installation: Entry doors.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
9669 kWh (Elec)	9,739 kWh (Elec)	9,739 kWh	0.11 /kWh	\$1,071
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$89
before monthly HowSmart Charge

Financing

\$8,474.00 Cost of Improvements (est):
\$1,694.80 Kentucky Home Performance
\$836.54 Rebates - Utility

\$5,942.66 Utility Contribution
\$10,995 Not to Exceed Amount (90% of Savings)
@ 3%
over 15 years
\$43 Monthly Charge
48% of projected savings

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	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$43	\$80		
Capital Investment	\$5,943	\$10,995		
Project Fee(s)	4.50% \$267	\$495	Payback Period (years)	15
Capital Fee	0.50% \$30	\$55	Cost of Capital	3%
Total Interest over life of payback	<u>\$1,546</u>	<u>\$2,973</u>		
Total Cost over life of payback	\$7,756	\$14,462		

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	Cooling	800 kWh	0 kBTU	0 kBTU	
	Base	18000 kWh	0 kBTU	0 kBTU	
=	Total (yr)	36,200 kWh	0 kBTU	0 kBTU	0 kBTU
		36300 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Add Crawlspace Wall Insulation.
- Add 5.5" spray foam insulation to roof deck and gable ends.
- Add Rim Joist Insulation.
- Replace HVAC Heating with New HVAC Heating System.
- Seal Duct Work to 10% of fan capacity.
- Install Programmable Thermostat.
- Replace HVAC Cooling with New HVAC Cooling System.
- 7. Remove whole house fan and create attic access there. (Air seal old one from attic side.)
- 6. Air seal penetrations in attic and crawl space.
- 5. Air seal plumbing penetrations in kitchen and bath cabinets.
- 4. Air seal door to old breezeway and front door.
- 3. Replace window in master bedroom.
- 2. Caulk all windows at jambs and casings.
- 1. Seal pipe in fireplace and panel to masonry.
- Reduce house air leakage to 1498 cfm50.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
14605 kWh (Elec)	14,705 kWh (Elec)	14,705 kWh	0.11 /kWh	\$1,618
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$135
before monthly HowSmart Charge

Financing

\$14,305.00 **Cost of Improvements (est):**
 \$2,000.00 **Kentucky Home Performance**
 \$664.42 **Rebates - Utility**

\$11,640.58 **Utility Contribution**
 \$16,601 Not to Exceed Amount (90% of Savings)
 @ 3%
 over 15 years
 \$84 **Monthly Charge**
 63% of projected savings

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The Kentucky Energy Retrofit Rider (marketed as How\$martKY) is a voluntary utility tariff that amortizes the cost of the efficiency improvement over the course of fifteen years or 75% of the expected life of the improvement (whichever is less) at a fixed interest rate. The expected cumulative cost to the customer over the course of the payback period of the improvements is as follows:

	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$84	\$121		
Capital Investment	\$11,641	\$16,601		
Project Fee(s)	4.50% \$524	\$747	Payback Period (years)	15
Capital Fee	0.50% \$58	\$83	Cost of Capital	3%
Total Interest over life of payback	<u>\$3,029</u>	<u>\$4,489</u>		
Total Cost over life of payback	\$15,193	\$21,837		

Account Holder: _____
print name

Date: _____


Owner: _____
print name

Date: _____






Energy Efficiency for Everyone

Grayson Rural Electric

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The power of human connections

Location ID:	Customer Information Removed for Privacy.
Name	
OwnerName	
Phone	
Assessor	
Date	

How Your Home Uses Energy

model baseline		Elec	Gas	Propane	Wood/Coal
	Heating	12,500 kWh	0 kBTU	0 kBTU	0 kBTU
	Cooling	846 kWh	0 kBTU	0 kBTU	
	Base	12400 kWh	0 kBTU	0 kBTU	
=	Total (yr)	25,746 kWh	0 kBTU	0 kBTU	0 kBTU
		25600 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Add Rim Joist Insulation.
- Seal Duct Work to 10% of fan capacity if needed.
- Replace HVAC Heating with New HVAC Heating System.
- Install Programmable Thermostat.
- Replace HVAC Cooling with New HVAC Cooling System.
- 2. Air seal basement windows with caulking.
- 1. Adjust and/or add weather strip to create a better seal on both doors from garage to house.
- Reduce the house air leakage from 2988 to 2500 cfm50.
- 3. Install new front door, air seal, trim and caulk. Paint to be done by customer.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
4225 kWh (Elec)	4,079 kWh (Elec)	4,079 kWh	0.11 /kWh	\$449
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$37
before monthly How\$mart Charge

Financing

\$6,700.00 Cost of Improvements (est):

\$1,340.00 Kentucky Home Performance

\$150.00 Customer Contribution

\$620.13 Rebates - Utility

\$4,589.87 Utility Contribution

\$4,605 Not to Exceed Amount (90% of Savings)

@ 3%
over 15 years

\$33 Monthly Charge
89% of projected savings

Next Steps

1. Sign Purchase Agreement
 2. Select contractor and schedule the job
 3. Energy Specialist returns to inspect completed work
 4. Savings begin and installments charge appears on utility bill.
- If, after operation, any of the upgrades fail, the Utility will reevaluate the work.

Acceptance:

I understand that:

Values on previous page are estimates only and are not a guarantee of savings. Energy savings are a best-effort estimation calculated using a computer model. The model takes into account previous usage and characteristics of the house to determine usage and potential savings. Actual savings will vary depending on behavior, weather events, maintenance of the efficiency improvements, and future utility rates.

The Utility has explained what I can do to reduce my energy consumption including, but no limited to: thermostat and other equipment settings, the impact of lighting changes, and additional appliance or home investments not covered under How\$martKY.

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	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$33	\$34		
Capital Investment	\$4,590	\$4,605		
Project Fee(s)	4.50% \$207	\$207	Payback Period (years)	15
Capital Fee	0.50% \$23	\$23	Cost of Capital	3%
Total Interest over life of payback	<u>\$1,194</u>	<u>\$1,245</u>		
Total Cost over life of payback	\$5,991	\$6,057		

Account Holder: _____
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Simple Things to Do to Spend Less on Energy

If you change what you do, you'll change what you get for a monthly bill.

Heating and cooling:

- Set the thermostat at a moderate temperature at the beginning of each season and leave it where you set it.
- A recommended, moderate winter temperature is 68 degrees. A moderate summer temperature is 74 degrees.

Heat pumps:

- If you have an electric heat pump, do not turn your heat pump up more than 4 degrees at a time in winter. Rapidly raising the temperature will force the heat pump to use its more expensive, auxiliary/emergency heat system to get the temperature up.
- Heat pump auxiliary heat can cost \$1.00 or more per hour whereas average heat pump operation costs 30 to 40 cents an hour.
- In summer, if you have an electric heat pump, do not lower the temperature by more than 4 degrees at a time.
- Taking care of your heat pump can help you save energy. In the fall, have a tune-up done to make sure refrigerant levels are optimum.
- Clean the coils to remove dirt so your equipment can operate efficiently.
- Regularly change the filter to help keep the coils clean.

Space heaters:

- Electric space heaters are energy hogs and are dangerous if used in the wrong place.
- Always keep space heaters at least three feet away from all flammable items such as curtains, blankets and furniture.
- Use space heaters only on level, non-flammable floor surfaces, NEVER on carpets, furniture or countertops.

Water heating:

- Set your water heater's thermostat at 120 degrees F. This temperature is plenty warm for showers and washing dishes.
- Use cold water to wash clothes whenever possible. Many of today's detergents are meant to work with cold water.

Other ways to use less electricity and spend less on energy:

- Turn off computers, lights, fans, air conditioners and televisions when they're not in use.
- Unplug appliances and electronics that use a 'phantom load' even in the *off* position. These usually have a red light glowing in the *off* position.



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