This energy-efficiency brochure was developed to educate customers on how to better manage their home's energy costs.

SMORTHOME YOU HAVE THE POWER





YOU HAVE THE POWER

To get started, GBPC recommends that you complete an energy audit of your home. An energy audit is designed to identify where and how your home may be wasting energy. While a professional energy audit provides the most complete picture of your home's energy use, a diligent self-assessment can help you pinpoint problem areas and prioritize your energy efficiency upgrades.

The estimated costs listed in this brochure are based on a rate of 30 cents per kilowatt-hour (kWh). You can locate GBPC rates at gb-power.com. The information in this brochure is based on estimated wattages and is intended to offer general guidelines only. Wattages may vary based on age, make and model of equipment and should not be regarded as fully representative of the costs of use.



How to save on your monthly energy bill.

HOW TO CALCULATE COST PER HOUR ?

The kilowatt-hour, or kWh, measures how much energy is used over a period of time. If you left that 100-watt light bulb on for 10 hours, that would have consumed 1,000 watthours, or 1 kWh of energy.

To calculate the approximate cost to operate a specific appliance, locate the wattage listed on the appliance (you may need to reference the owner's manual) and divide it by 1,000 to get the kilowatt-hour (kWh). Once you have the kWh, multiply by 30 cents per kilowatt-hour (kWh) to get an approximate cost to operate a specific appliance for a 1 hour period.







For example: Consider an appliance that uses 600 watts.

Divide 600 watts by 1,000 =0.6 kWh.

Multiply 0.6 kWh by 30 cents per kWh

= 18 cents per hour. Lighting accounts for about 15% of a typical residential utility bill. So, turn off the lights when not in use.





To improve energy efficiency even more, replace the incandescent or compact fluorescent (CFL) light bulbs in your home with energy saving compact LED bulbs.



For outdoor security lights, install lights with motion detectors so they only come on when needed.



Install dimmer switches to save energy and extend the life of compatible light bulbs.







Be brighter!

Energy-efficient bulbs have revolutionized lighting, but there are other simple ways to reduce both your lighting use and costs.

Reduce the wattage

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An overly lit room not only wastes power, it also can cause your cooling bill to increase. Choose bulbs whose wattage matches both the purpose of the room and the atmosphere you would like to create.

Use multiple switches

When installing lighting in a large open-plan space, install multiple switches to cover the different areas. That way you can restrict your use of lighting to the area you want to use.

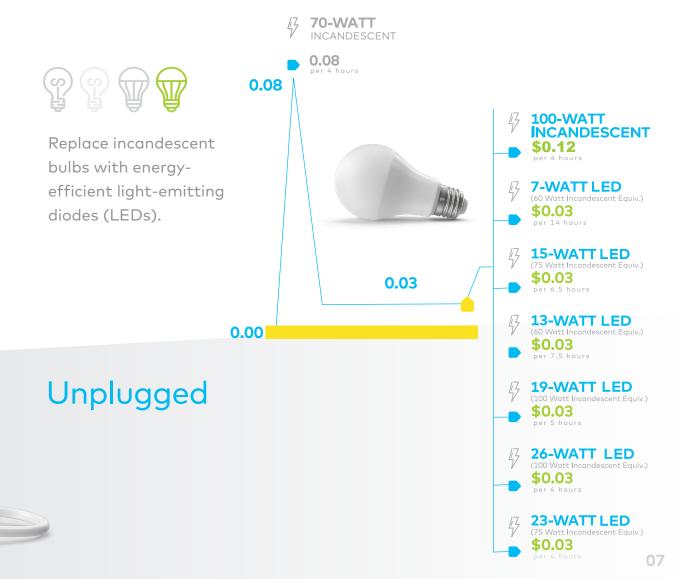
Install dimmers

Dimming reduces the amount of electricity a light uses and increases the life of low-voltage lighting such as halogen downlights. When you buy bulbs, check that they will work with a dimmer.



Save when you install multi-outlet power strips which have a switch that make it easy to turn off electronic devices that are not in use.







TVs, Computers, Monitors & Printers should be plugged into a power strip, and turned off when not in use.







Washing and drying clothes use a lot of energy and water in a typical house.





Here are 5 ways you can reduce your consumption of water and energy while doing laundry.

Wash full loads. - Your washer will use about the same amount of energy no matter the size of the load, so fill it up.

Clean the lint filter on the dryer. - The dryer will run more efficiently and safely. If you use dryer sheets, scrub the filter once a month with a toothbrush to remove film buildup that can reduce air circulation.

Use an ENERGY STAR-certified washer and dryer.

New ENERGY STAR washers use about 25% less energy than conventional models, and ENERGY STAR dryers use 20% less energy.

Dry right-sized loads for your machine.

If the dryer is too full, it will take longer for the clothes to dry. Loads that are too small can also take longer to dry, plus you spend more per item when running the dryer to only dry a few things.

Don't over-dry, set your dryer to the correct dry time to avoid wasting energy.











You might not necessarily consider the impact that being energy-efficient in the kitchen can have on the bills you pay.

You should always remember, though, that the amount of energy you use in the kitchen on a daily basis can also have a massive impact on your energy usage and subsequently your bills.

This basically comes down to the food you're cooking and the way you're cooking it, but you don't necessarily need to invest in a state-ofthe-art low-energy-using oven to improve the energy efficiency of your kitchen.

Being more mindful of your cooking processes can significantly reduce the amount of energy you use and cut your energy bills in the process.



With that in mind, we've pulled together a few simple, tips to help you become a more energy-conscious cook. You probably won't use them all when preparing every meal, but knowing about them and practising them when required will definitely make a difference to your energy usage and your wallet.

Always match the burner to the pan!

By matching the burner ring to the pan, you avoid wasting electricity and reduce unwanted heat that is generated by the uncovered burner.



Keep the oven door close.

Each time you open the door, the oven loses heat (sometimes as much as 25 degrees) and requires more energy to get back up to temperature.

On a similar note, try to keep the oven door clean so you can look in, rather than having to open it to see how your food is doing.

Cook as much as possible

Prepare to cook a full meal in the oven in one go to make sure all the space and heat is being used. If you make lunches for work, do them all at once - you can always keep them in the fridge or freeze them to warm up when you need them.

HOMENERGY ADVISOR

PLEASE

NO PLUGS

UNLY FNEEDED

WHEN IT COMES TO YOUR HOME ENEGRY CONSUMPTION, YOU HAVE THE POWER.

LEARN MORE

customerservice@gb-power.com

GRAND BAHAMA POWER COMPANY

Air fryers use energy efficiently and in comparison to an oven, it is best used for small portion meals while ovens are more efficient for larger meals.

Air fryers can reduce cooking times by up to 25% which, of course, makes it possible for an air fryer to run for a shorter amount of time when cooking. The average cooking time of an air fryer is much closer to 12-15 minutes.

2 SLICE TOASTER \$0.36 per hour











COFFEE POT pot brew \$0.30 per pot





LOOK FOR THE ENERGY STAR LABEL FOR WHEN BUYING HOME APPLIANCES.



Your refrigerator is the hardest working appliance in your home.

It will benefit both your wallet and the environment if you make an effort to keep it energy efficient. Follow these tips, and your refrigerator will be working smarter, not harder.

Keep the door closed

It's easy to get distracted and walk away from the refrigerator for a moment, leaving the door open. But this lets the cool air out and all the warm air in, so the appliance will have up its work rate to get things cool again. Try to keep door opening times to a minimum to put less stress on the appliance.

Store Food Properly

Use refrigerator-safe containers to store all food. Glass containers are better than plastic ones because glass absorbs and retains cold better. Moisture inside your fridge will make it harder to stabilize the internal temperature. Cover foods and liquids to avoid over-working the compressor.







Avoid putting hot dishes in the refrigerator.

Maximize efficiency by setting the temperature at or near the manufacture's optimal settings.

Prevent cold air leakage by replacing damaged door seals. Vacuum dust that accumulates on the condenser coils on the rear or bottom of the unit.



Costs vary based on the age and size of the unit



As much as half of the energy used in your home goes to heating and cooling. So making smart decisions about your home's heating, ventilating, and air conditioning (HVAC) system can have a big effect on your utility bills — and your comfort.

Have your duct system sealed. 78° Setting your thermostat to 78 degrees Fahrenheit is the most efficient setting for your air conditioner during warmer months.

72^o Reducing your home's temperature lower, such as to 72 degrees, could increase your cooling costs by as much as 47 percent.

Ensure windows and doors are properly sealed or equiped with weather-strips.

Replace central air conditioner with a more efficient unit.



Change filters monthly and make sure they are installed facing the correct direction (look for directional arrows on the side of the filter).

Service heating and cooling systems annually and adjust for maximum efficiency.

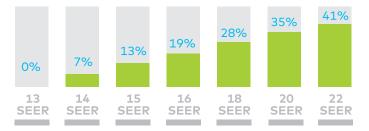
A programmable thermostat is ideal for people who are away from home during set periods of time throughout the week. Through proper use of pre-programmed settings, a programmable thermostat can save you.





SEER
RATESAnnual saving for cooling your home based
on the efficiency of a matched system.

Like miles per gallon in a car, the higher the system SEER rating, the more comfort you will get for each energy dollar.



RECOMMENDED BTUS by sq. foot.

BTU 12,000 400-650 Sq Ft. BTU 15,000 500-800 Sq Ft.

BTU

Sq Ft.

42,000

1,400-2,300

BTU 36,000 1,200-2,000 Sq Ft. **6,000 150-300** Sq Ft.

BTU

BTU 24,000 800-1,300 Sq Ft.

BTU 48,000 1,600-2,650 Sq Ft. BTU 9,000 300-500 Sq Ft.

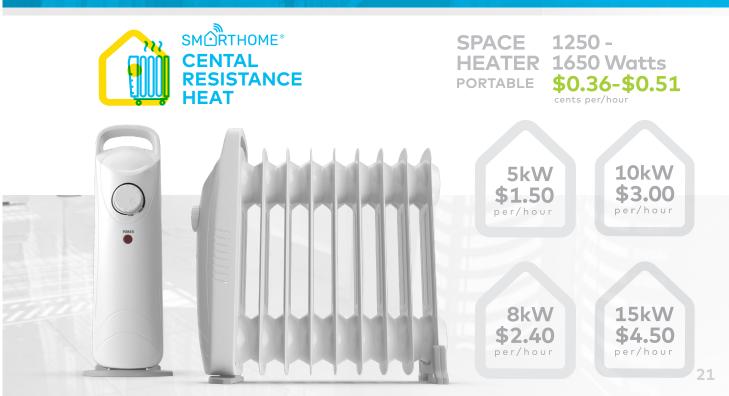
BTU 30,000 1,000-1,650 Sq Ft.

BTU 56,000 1,850-3,100 Sq Ft.



During the summer, use your ceiling fan in the counterclockwise direction. The airflow directly underneath the ceiling fan will push down, creating a wind-chill effect, which is going to make you feel cool. Reversing your fan, to a clockwise direction, creates a gentle updraft, recirculating heat down.

CEILING OR BOX FAN \$0.03





Water heating accounts for as much as 20 percent of your utility bill.

Hot water heaters can often get in the way for homeowners who are trying to cut down on their electric bill. This is because hot water heaters are designed to have hot water ready to go, whether you need it or not. -If you are trying to cut down on your electric bill but are being prevented by your hot water tank, here are some simple electric water heater energy saving tips.

1. Install a water heater timer - Water heaters can be controlled using a wide variety of devices, ranging from a simple On/Off switch to controllers that can be accessed from anywhere using your smartphone. A water heater timer simply turns off your water and stops it from heating water that you will not use, thus saving you money.

2. Turn Down the Tank Thermostat - For every 10 degrees that you are able to turn down your electric water heater, you can save about 3-5% on your electric bill. While most water heaters come pre-set at 140 degrees, your water tank can actually be turned down to 120 degrees or less and still produce the right amount of hot water for your needs.

3. Drain the Sediment

Since tanks naturally build up sediment that can reduce efficiency and make energy savings a challenge, draining the electric water heater every now and then can help keep the tank running at the optimal level. Typically, a hot water heater that uses a tank will run for three to five hours per day. So, a 4,000-watt heater used for three hours a day at \$. 30 per kWh will cost \$3.60 per day, about \$110 per month.

Here how your water heater sizes up.



*Disclaimer – Water heater costs vary due to the size of the heating element. A 20 gallon water heater can carry the same size element as a 40 gallon water heater. The average water heater runs a total of 3-4 hours a day.



CELL

\$0.01 per hour

PHONE

Turning off small appliances can make a Big impact.

Turn computers and monitors off when not in use. Turn off TVs, radios, gaming systems and stereos when not in use.





ASK ME 🗣

How you legitimately save on your energy bill?

For more information email smarthome@gb-power.com

YOU HAVE THE POWER

For more information email smarthome@gb-power.com

