

Lighting

Energy-efficient lighting is beautiful and will add warmth and radiance to your home while saving you energy and money.

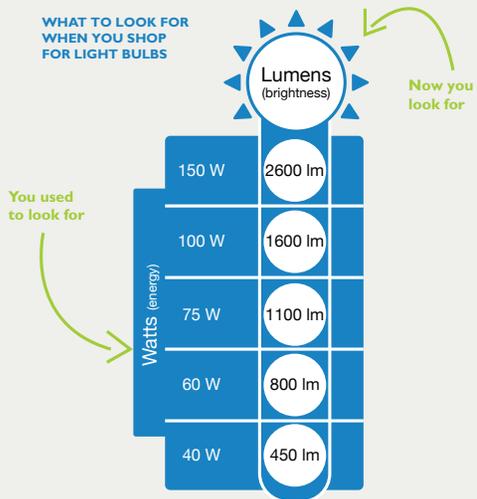
There are many choices in energy-efficient lighting. Traditionally, halogen incandescent were the most common bulbs, however compact fluorescent lamps (CFLs) and light-emitting diodes (LEDs) have become the bulbs of choice for energy-conscious customers. Although these bulbs can initially cost more than traditional incandescent bulbs, over their lifetime they save you money, because they use less energy.

Certified CFLs use about 75% less energy and last up to 10 times longer than traditional incandescent, and LEDs promise equal or even better efficiency than CFLs and last 25 times longer than incandescent bulbs.

The brightness of CFL and LED light bulbs is measured in lumens.

LIGHTBULB WATT-TO-LUMEN CONVERSION GUIDE

WHAT TO LOOK FOR WHEN YOU SHOP FOR LIGHT BULBS



Here are a few tips to reduce your lighting costs:

- Turn off lights when you do not need them. Take advantage of natural light.
- Replace incandescent lights with CFLs or LEDs.
- Dimmer switches help reduce electricity consumption and provide attractive lighting.
- Timers and motion sensors reduce the amount of time lights are on when not being used. Use photocells for exterior lights, set to turn on at dusk and off at dawn.
- Pay attention to the colour of light. This affects how bright it appears, even if the wattage/lumens is the same.

Refrigeration

- Refrigerators (top freezer most efficient, followed by bottom freezer and side by side models).
- Do not overfill your refrigerator, clean the coils and don't set the temperature too low.
- Consider unplugging that additional refrigerator and/or freezer, if you can manage without them.
- Leave space for air circulation behind the fridge.
- Make sure door seals are tight.
- Minimise the amount of time the refrigerator door is open.
- Place fridge in a cool place and away from heat sources in the kitchen.

WE WANT TO HELP YOU



SAVE

Your Pocket
spare the Earth

ENERGY EFFICIENCY + CONSERVATION

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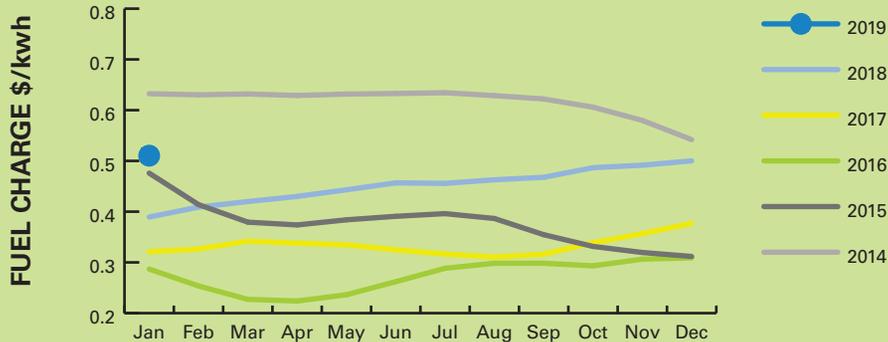
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While Grenlec has invested in renewable energy, most of Grenada's electricity generation is from imported fuel. The cost of this fuel is based on unstable world market prices. In recent years, the unpredictability in fuel prices has resulted in increasing costs for transportation and electricity. Your electricity bill separates the fuel and non-fuel components of your total cost, making it easier for you to see where your money is being spent. Grenlec is committed to the pursuit of renewable energy resources to stabilise fuel prices in the long-term and mindful that conserving the use of our energy resources will always be a priority. We hope this information will help you on your quest to build good energy management habits and reduce your energy costs.

CHANGES IN FUEL CHARGE



Energy Management Tips

- Get your family and work teams involved in building good energy management habits.
- Pay attention to how you use energy and track your energy costs. Take the time to read and understand your bill. (See sample bill below).
- Significant savings can be achieved from ensuring that you use energy efficiently. Energy meters can help you identify the amount of electricity your appliances and equipment use in a given period.
- Size equipment and appliances for the job you need to do. Too big, means that you're paying for more electricity than you need.
- The same goes for transformers. where necessary, ensure that they are sized appropriately to match the equipment. Turn off the transformer together with equipment (switch off at outlet or unplug). The heat that transformers produce when they are on, even when you're not using your equipment, is wasted electricity for which you are paying.
- Turn off equipment, appliances and electronic devices (lights, televisions, stereos, DVD players, computers and chargers) when you're not using them. Most new electronics use electricity even when switched off with the power button or remote control.
- Monitor equipment and appliances. Maintain as directed by manufacturers to ensure good working condition.
- Do not focus exclusively on lighting as it may not be the most significant percentage of your total energy costs. Here are some of the other items to monitor:
 - Refrigerators/Freezers
 - Water Heaters
 - Water and pool pumps
 - Air conditioning units
 - Washing machines and dryers
 - Transformers

Buying Appliances and Equipment, Building & Remodeling

- Grenlec supplies electricity at 50 Hz and 230 volts. For maximum energy efficiency and life, buy equipment rated for this supply.
- Newer equipment, especially electronics, may be able to work with both 110 and 220/230 volts. Use at 230 volts to avoid transformers, which increase energy consumption.
- Buy energy efficient equipment and appliances.
- When planning to build or remodel, plan for your energy needs and utilise building techniques and products that promote energy efficiency.
- Design to maximise the natural environment.
- Develop a lighting plan.
- Ask about the running cost of electrical installations.



Cooling and Heating

- Use air conditioning wisely. Keep doors and windows closed in air conditioned spaces, particularly doors leading to external areas.
- Heat only what you need at the time. Consider single shower installations instead of central heating units.

Laundry

- Do only full loads when using your washing machine and/or dryer. Whenever possible, line-dry your clothes.
- Front-loader washing machines are designed to reduce electricity and water consumption.
- Iron as much as you can at one time.

SAMPLE BILL shows how electricity cost is calculated and the 8-month usage history to help monitor your consumption.

METER READINGS	NO. OF DAYS	USAGE THIS PERIOD (kWh)	TYPE OF SERVICE	NON-FUEL	FUEL	DEMAND / FLOOR AREA	DUE DATE	CURRENT ELECTRICITY CHARGES
PREVIOUS 24-JAN-31 1501	CURRENT 23-FEB-13 1620	30	119	Metered	\$50.68	\$77.65	13-MAR-13	\$128.33

RATES / kWh (unit)	PERIOD	DAYS	USAGE (kWh)	kWh/DAY
FUEL \$0.65254	23-Feb-13	30	119	4
NON-FUEL \$0.42590	24-Jan-13	31	118	4
	24-Dec-12	31	121	4
	23-Nov-12	30	118	4
	24-Oct-12	29	126	4
	25-Sep-12	32	123	4
	24-Aug-12	30	95	3
	24-Jul-12	29	132	5

GOVERNMENT CHARGES ECS		BILLING DETAILS	
ENVIRONMENTAL LEVY	\$5.00	PREVIOUS BALANCE	\$134.61
VAT (non-fuel) 15%	\$1.28	LESS PAYMENT	\$134.61
VAT (other) 15%	\$9.00	ADJUSTMENTS	\$60.00 (Transfer fee)
		BROUGHT FORWARD	
		ELECTRICITY CHARGES	\$128.33
		GOVERNMENT CHARGES	\$15.28
		TOTAL CURRENT CHARGES	\$203.61
		TOTAL AMOUNT DUE	\$203.61

$119 \text{ (USAGE)} - 99 \text{ (NOT VATABLE)} = 20 \text{ (VATABLE USAGE UNITS)}$
 $\$0.42590 \text{ (NON-FUEL RATE)} \times 20 \text{ (VATABLE USAGE UNITS)} \times 15\% \text{ (VAT)} = \1.28
 $\$60.00 \text{ (TRANSFER FEE)} \times 15\% \text{ (VAT)} = \9.00
 $\$50.68 \text{ (NON-FUEL CHARGE)} + \$77.65 \text{ (FUEL CHARGE)} = \$128.33 \text{ (TOTAL ELECTRICITY CHARGE)}$
FUEL CHARGE = 119 (USAGE THIS PERIOD) x \$0.65254 (FUEL RATE)
NON-FUEL CHARGE = 119 (USAGE THIS PERIOD) x \$0.42590 (NON-FUEL RATE)

♦ NOTE FOR DOMESTIC CUSTOMER VAT IS 15% OF THE NON-FUEL AMOUNT ABOVE 99 UNITS, IE FIRST 99 UNITS EXEMPT FROM VAT
 ♦ FUEL CHARGE FOR DOMESTIC CUSTOMER IN FEBRUARY 2013