



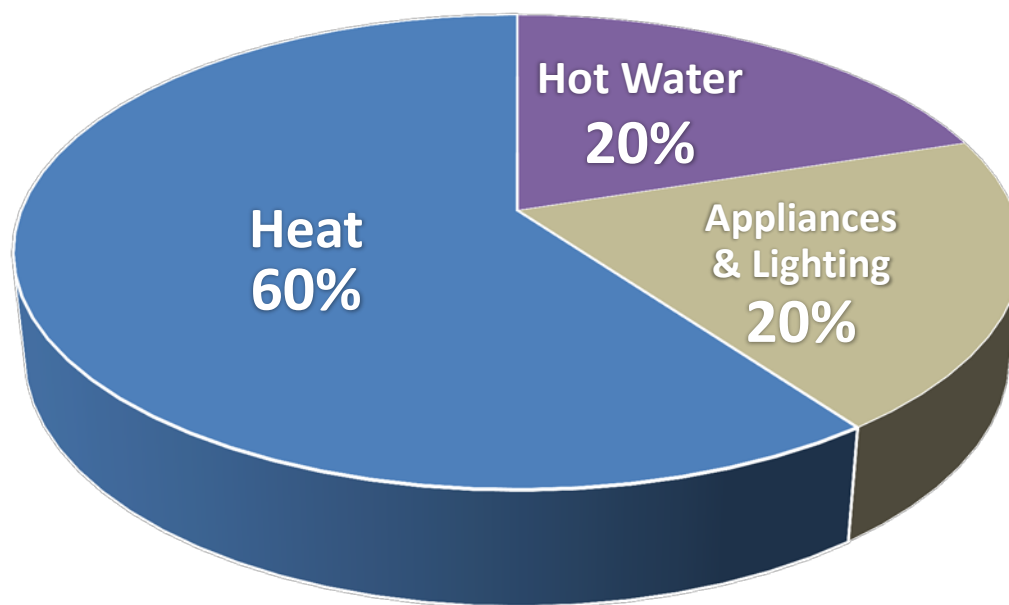
**Énergie NB Power**

## Understanding Household Electricity Use

# Annual Energy Use in the Home



(for an average family of 3 – 4 people)





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*60% of the annual energy used in an average home is attributed to heat*

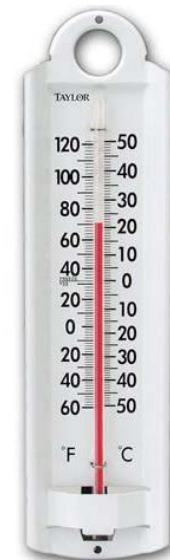
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The amount of heat required depends on:

- The heat requirement of the occupants
- The houses ability to retain heat and
- Weather (outside temperatures)



*We do have influence over the requirement for heat by keeping inside temperatures as moderate as possible.*





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*It is important to make sure that your house can retain the heat that you put into it for as long as possible.*

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We can't stop heat from going to cold, but we can slow it down by:

1. Insulating warm areas from cold
2. Air sealing drafty areas







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*Weather in New Brunswick directly influences how much heat we use.*

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The colder it is outside, the more heat is required to maintain indoor comfort levels.

This effect is minimized by increasing your house's ability to hold heat.





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*20% of the annual energy used in an average home is attributed to hot water.*

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The amount of energy required for hot water depends on:

1. The number of occupants
2. Their hot water usage habits and
3. Timely fixing of any leaks that may exist.

**Hot water usage costs approximately 3¢ per gallon.**



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## *Program highlights:*

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NB Power tanks are custom manufactured for New Brunswick to reliably and efficiently deliver hot water year after year.

Our rental program includes a 24/7 service guarantee for worry free hot water.

### Residential sizes available:

**60 gallon (270 litres)**  
up to seven people  
\$8.11 per month

**40 gallon (175 litres)**  
up to four people  
\$6.26 per month

**22 gallon (100 litres)**  
special purpose  
\$6.26 per month





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*20% of the annual energy use for an average family is attributed to lights and appliances.*

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The amount of energy required for appliances and lights depends on:

1. The lighting and appliances we choose to use and
2. How many hours we choose to use them!



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*Calculate how much things cost*

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## **WE NEED TO KNOW THREE THINGS**

- 1. POWER** (measured in kilowatts;  $1\text{kW} = 1000\text{W}$ )
- 2. TIME** (measured in hours)
- 3. RATE** (NB Power's published rates in ¢ per kWh)

# Read the Label



*To determine the number of watts the device uses.*

The maximum wattage of any electrical device is found on the product label fixed to that device.

**Read the label before you buy your device!**





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*Once you know how many kilowatts your device uses,  
the only thing left is to know how many hours it will  
operate!*

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# NB Power Rates

(as of October 1, 2014)



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## *Monthly Service Charge*

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Urban Areas            \$20.48

Rural Areas            \$22.46

Energy Charge: All kilowatt-hours 10.25¢ / kWh



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*How much does it cost to operate an average  
baseboard or portable space heater?*

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**Power (kilowatts):** 1.5 kilowatts (1500 Watts from label)

**Time (hours):** 1 hour

**Rate (¢ per kWh):** 10.25¢ per kWh

**Cost of operation for 1 hour is 15¢**

(1.5 kW x 1 hours x \$0.1005 per kWh)

**How many hours per month do you  
use your portable space heater?**







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## *How much does it cost to operate a hair dryer?*

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**Power (kilowatts):** 1.8 kilowatts (1800 Watts from label)

**Time (hours):** estimated at 5 minutes per day  
*(5 minutes per day for 30 days =  
150 minutes or 2.5 hours per month)*

**Rate (¢ per kWh):** 10.25¢ per kWh

**Cost of operation for 1 month is 0.46¢**

*(1.8 kW x 2.5 hours per month x \$0. 1025 per kWh)*





## *How much does it cost to heat 40 gallons of water?*

**Power (kilowatts):** 3kW (3000 Watts from label or manual)

**Time (hours):** 4 hours

**Rate(¢ per kWh):** 10.25¢ per kWh

**Cost of heating a 40 gallon tank of water is \$1.23.** (3 kW x 4hrs x \$0.1025)

**But if there is a leak, and the tank runs continuously it could cost as much as \$221.40 in just one month!**  
(3kW x 24hrs x 30 days x \$0.1025)





## *How much does it cost to run a clothes dryer?*

**Power (kilowatts):** 4.8 kW (4800 Watts from label or manual)

**Time (hours):** 1 hour

**Rate (¢ per kWh):** **10.25¢** per kWh

**4.8kW x 1hour x \$0.1025= 49¢ per load**

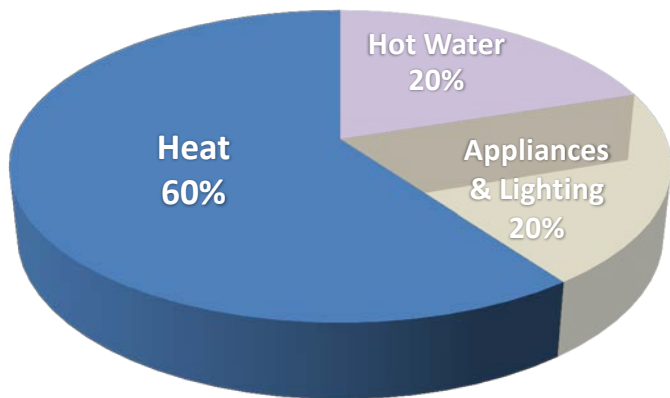
*Consider the thermostat... 37¢ per load*

**How many loads of laundry  
do you do in a month?**

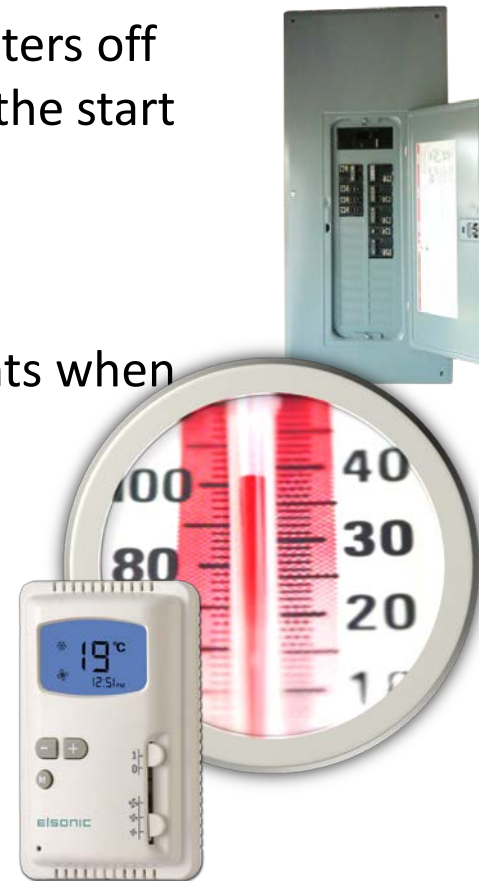




## *Here's some ways to save with heat:*

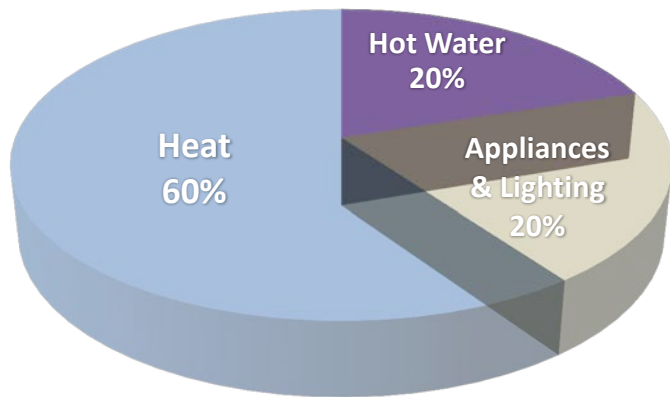


- Turn electric baseboard heaters off at the electrical panel until the start of the heating season.
- Don't overheat.
- Reduce thermostat set-points when away and at night.
- Consider installing a programmable thermostat to make reducing the set point easier.





## *Here's some ways to save with hot water:*



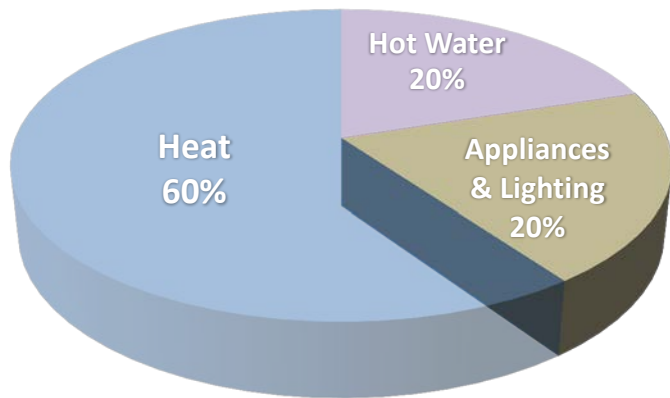
- Fix leaks and drips in plumbing and fixtures.
- Limit shower time.
- Use a low-flow shower head.





*Here's some ways to save with appliances and lighting:*

**If you aren't using it....Shut it off!**



- Use a timer to help reduce operating times
- Unplug that old, empty fridge or freezer.
- Use power bars for computer and home entertainment systems.





# How can NB Power Help?



Visit us at [www.nbpower.com](http://www.nbpower.com) for energy saving tips and tools:

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Save Energy this winter. Install a programmable thermostat. To discover other ways to save energy, click here.

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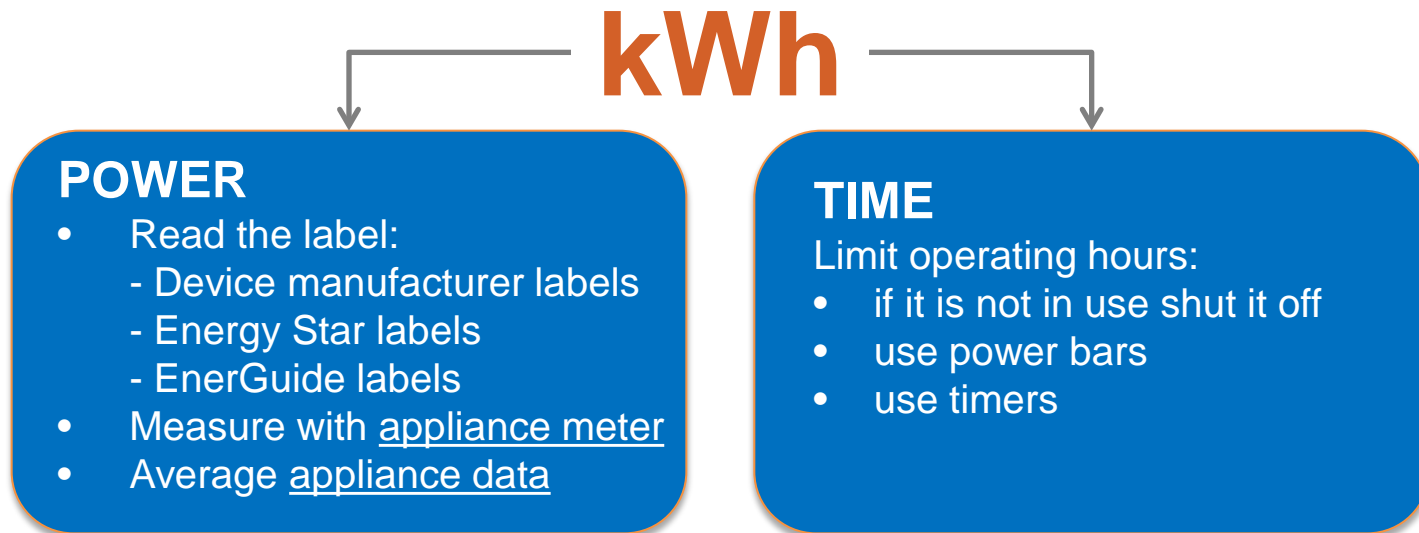


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## *A KILOWATT-HOUR IS*

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A kilowatt multiplied by the number of hours used.





- Equalized Payment Plan (EPP)
- Pre-authorized Payment Plan (PPP)
- Landlord Service Plan (LSP)
- Payment Arrangements
- MY NB Power Account (online)

# Equalized Payment Plan (EPP)



- Pay the same amount each month
- Monthly bills are issued based on pre-determined equalized billing payment amounts
- Any remaining balance is due at the end of one year of equalized billing payments
- If a credit remains it is carried forward and applied to your account

# Pre-authorized Payment Plan (PPP)



- Automatic withdrawal when payment is due
- On-demand one-time payment
- Saves you time and postage
- Worry-free, guaranteed on-time payments each month



- When a tenant vacates your property and requests a disconnection of service a meter reading is done and a final bill is issued to your tenant
- Service is transferred into your name without interruption
- You are not charged a service call fee





- If you are having trouble paying your bill in full or by the due date – payment arrangements are an option
- Spread larger invoices over an extended period
- Align payments with your pay periods
- Payment arrangements do not include future monthly invoices
- Avoid interruption of service, unwanted phone calls or letters

# MY NB Power Account



Online billing	View your usage history
Set-up and manage multiple locations where you have NB Power services	Request services provided by NB Power
View your account balance and payment history	Report a payment
Set-up automatic or one-time payments	View your current and past bills
Contact us outside of regular business hours	



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If you are having a difficult time paying your bills there are organizations out there to help:

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- Social Development: 1-866-441-4245
- Home Energy Assistance Program: 1-800-669-7070
- Senior's benefit: 1-800-669-7070
- You can also check with local non-profit organizations in your area.



Thank you / Questions

[www.nbpower.com](http://www.nbpower.com)



**Énergie NB Power**