## Power Consumption \& Cost

## Cost of Power...

In order to sell electrical POWER, we must have a way of calculating the COST of ELECTRICITY. We do this by charging a certain PRICE per UNIT of ELECTRICAL ENERGY.

We get our ELECTRICAL POWER from MANITOBA HYDRO. The power is primarily GENERATED in northern Manitoba using large HYDRO-ELECTRIC DAMS.

Manitoba Hydro charges us for only the power that we use...so using less means saving money.


Find ways to save energy.

## Cost of Power...

To charge us for power, MB Hydro must know how MUCH power we use. They measure this in KILOWATTS (KW).

$$
\begin{aligned}
& 1 \mathrm{~kW}=1000 \text { Watts } \\
& \text { (divide Watts by } 1000 \text { ) }
\end{aligned}
$$

They must know how much power we use during a certain amount of TIME. To do this, they measure how many KILOWATT HOURS (kWh) we use. This is measured by the METER that is on the SIDE of your house.


We can also calculate the amount of kilowatt hours we use with the following equation:
kWh = kilowatts x time (hours)

## Cost of Power...

To calculate cost, we use the following formula:

$$
\begin{aligned}
& \text { Cost }=\mathrm{kWh} \times \text { price per } \mathrm{kWh} \\
& \text { or } \\
& \text { Cost }=\text { Power } \times \text { time } \times \text { Price }
\end{aligned}
$$

In Manitoba, we have some of the cheapest power in North America. This is because we have SO MUCH power to sell.

Hydro sells us the power at a LOW RATE, then sells the rest to other PROVINCES and the U.S.A. at a HIGHER RATE.

Hydro bills usually come every one to two months, and vary in amount depending on how much power is consumed.

Customer service / 24 hour Trouble calls Demandes de renseignements / 24 h sur 24 Dépannage

| Wirnipeg | $480-5900$ |
| :--- | ---: |
| Outside Winnipeg/ | $1-880-\mathrm{MBHYDRO}$ |
| Ettrieur de Winnipeg | $(1-888-624-9376]$ |
| Deat access Ine | $925-0767$ |
| Ligne pour malentendants |  |

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Vlisit our website at www.hydro.mb.ca

Visitez notre site Web www.hydro.mb.ca/trancaisCustomer name Nom de lipbonnd
Account number
N de comple
Sorved locotion Adrese de gevige WirviviPG Mb

Dole insuod Dale detmpion
Amount due Monlant a payer

Due date Date decheance

Jgn 28 JAN 2010
\$ 155.00
Feb 16 FÉV 2010
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p* de cyche

## Account summary / Sommaire du compte

Previous charges and credits / Frais et crédilts antérieurs
Previous balance / Solde ontérieur

| Payment/Paiement | Jan 04 JAN |  |  | 155.00 C |
| :---: | :---: | :---: | :---: | :---: |
| Balance forward/ Solde reporté |  |  |  | \$ 0.00 |
| New charges / Nouveaux frais |  |  |  |  |
| Electricity / Électricité | [GST/TPS | \$2.571 | EPP/R.P.EL | \$ 51.00 |
| Natural gas / Gaz naturel | [GSI/TPS | 7.47] | EPP/R.P.E. | 104.00 |

Amount due / Montant à payer

Nom de rabonné
Account number
$\mathrm{N}^{+}$de comple
Service location
Adresse de service WINNIPEG MB
Dote issued
Dcte d'émission Jan 28 JAN 2010

## Special messages / Messages particuliers

- Your meter reading will be estimated next month. If you prefer to provide a meter reading, see Instructions for reading your meter and phone in your reading during the 3 day period ending Feb 23, 2010.

Le relevé de votre compteur sera estimé le mois prochain. Si vous préférez soumettre un relevé, consultez les instructions dans la partie intitulée La lecture de votre compteur et transmettez votre relevé par téléphone dans la période de 3 jours qui se termine le 23 fév 2010.


## Examples...

Assume the price of electricity is $6 ¢$ per $k W h$

1. Calculate the cost of leaving a 100 W light on for 2 hours.

## Examples...

Assume the price of electricity is $6 ¢$ per $k W h$
2. A T.V. is rated at 200 W . You watch T.V. for 4 hours a day for a month. How much did it cost?

## Examples...

Assume the price of electricity is $6 ¢$ per $k W h$
3. You use an appliance that draws 6A of current on an 110 V system for 10 hours a day in February. How much does it cost?

