## How much electricity do we use?

## How much does it cost?



**Electrical Power for Light Bulbs** 

The unit of measurement for power is Watt

Power = Voltage x Current



A portable hair dryer plugged into a 110 V outlet, has a current of 10 A flowing through it. What is the power rating of the hair dryer?

Electrical Power in your House

Energy used by your house = Power of the device x Time it is used

The unit of measurement is kW.hr

Problem: If the hair drier is used for 15 min how much energy does it use?

Recall 1000 W = 1 kW 60 min = 1 hr

List 5 electrical	appliances yo	u use in	your house	on a regular bas	sis.

Rank them from highest to lowest energy consumption?

If you were going to make breakfast which included coffee, toast and fried eggs and bacon how much energy would it take? (note: you must estimate the time it takes to cook eat of the items)

Cost = kWhr x \$/kWhr

If electricity costs 12 cents per kilowatt hour, what is the cost of operating the hair dishwasher for 45 minutes?

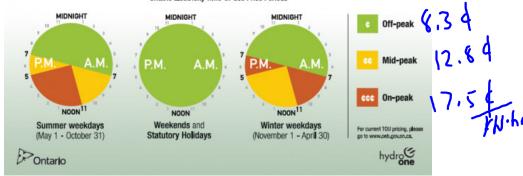
### Time of use billing in the Province of Ontario

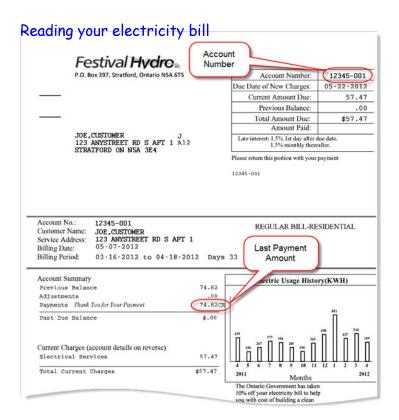
# POWER. SMARTER.

Shift from on-peak to off-peak periods when possible to help manage electricity costs, reduce strain on the electricity system, and help the environment.

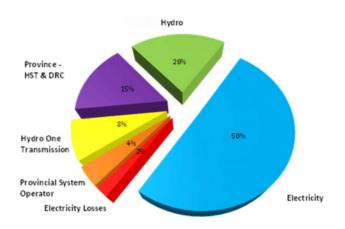
Use this removable decal as a reminder of Time-of-Use (TOU) price periods,

#### Ontario Electricity Time-of-Use Price Periods

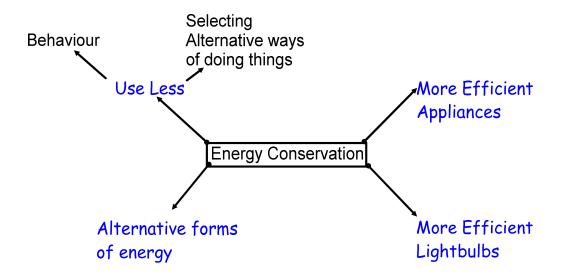




## Your Residential Electricity Dollar



List 10 ways I can reduce my monthly electricity bill.



Read 12.7 p 530-535

Q 1-7 p 535

Where does our electricity come from?

How much are we using?

Download Gridwatch