



## Energy Saving Tip Sheet

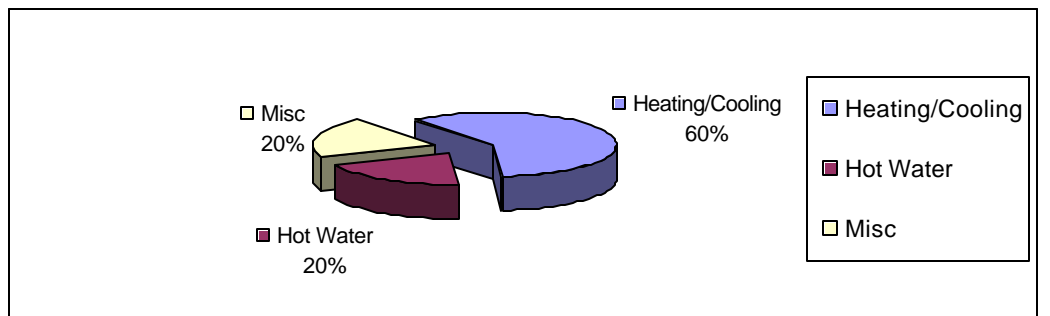
Dear Energy Consumer:

In light of Energy Conservation efforts being promoted seemingly everywhere; we at Sphere Business Solutions Inc. wanted to provide our valued web page visitors and clients some quick and easy energy saving tips. Below you'll find some of tips we believe offer you the biggest gain per dollar. And please remember...

### Small changes add to big savings !!!

Your first step in helping to reduce your energy bills is to understand where you are consuming the most energy. In the following pie chart you will see a quick overall snap shot of the breakdown of money's spent by the average Canadian household per year.

#### Energy Cost Breakdown – Per Average Canadian household



The average home across Canada consumes approximately 8,000 to 10,000 kwh's per year or average of 750 kwh's per month allocated as illustrated in the above chart. Check your utility bill and see where you are? Combining the below energy saving tips with a customized Sphere Business Solutions Solar Grid-Tie Power Generation system will greatly reduce your costs. Even return a profit year over year, when combined with the Standard Offer Contracts in Ontario, set to come into effect November 2006.

### Recommended Tips to Consider

1. Water Heater – for an electric water tank, you may pay approximately \$160 /year by radiant heat loss (\$80 for Gas). Suggestion: wrap the tank in a heater jacket for water tanks. At a rough cost of \$35 cdn. These recoup 97% of radiant heat loss. (Approx \$150 in savings annually)
2. Water Pipes: cover exposed pipes with foam tubing. About \$1.49 per 8 or 10 ft.
3. On the water tank itself...turn temperate down to 55 degrees. Standard setting is 60 degrees from factory. This results in 15% reduction for heating water. If you are very low user of hot water consider a tank less heater.

4. New regulations require temperature flow regulators to be on the hot water tank. If you are renting your tank you'll get this when you change your existing tank for a new one. Temperature Flow regulator will ensure your hot water does not exceed 49 degrees Celsius. The reason was to prevent scolding, however this does also help save a little money.
5. Have an Old fridge? See if you can eliminate it or turn it right down. Refrigerators are on all the time and older models tend to use a lot of energy. Refrigerators from 10 yrs ago, in some cases, can operate at 3 times the energy consumption rate of a newer model. Removing or replacing an older model with a consumption rate of 1300 kwh's per year, to 0 or a newer model with consumption rate of 450 kwh's per year, is the equivalent to 1 full month or more of energy usage for the average household.
6. Avoid using the clothes Dryer whenever possible. Dryers are extremely high in consuming energy. All they really do is speed up an evaporation process that nature can accomplish naturally and for FREE!



7. Try to not place hot items in the fridge. Let them cool to room temperature first. Plan your meals, if you need to defrost, place it in the fridge out of the freezer the night or day before. The cold from the frozen item will allow the fridge to not work as hard. The item being defrosted will act like ice in a cooler.
8. Take a look at your kitchen. If the oven is close to the fridge, see if you can move the fridge. Ideally, the refrigerator should be at opposite ends from the oven. The heat from the oven will cause the fridge to work harder.
9. When possible, step up the Bar BQ, it remains to be the healthiest way to cook takes no energy and tastes great. Incorporate some fruits and vegetables, and your pockets and waistline will love you for it.
10. In Ontario, Smart Metering and Billing are becoming a reality. Begin adjusting energy usage to reflect the rates as outlined on the future pricing of Smart Billing. Check your local utility web sites for information about the future program of Smart Metering and Smart Billing. This has been mandated to take effect in Ontario by 2010. Be prepared now!

To find out more about Smart Metering and Billing go to [www.powerWISE.ca](http://www.powerWISE.ca)

Announced rates for Smart Billing as of Spring 2006 in Ontario from Toronto Hydro are:

Day of the Week	Time	Peak Period	Price (cents/kWh)
<b>Weekends &amp; Holidays</b>	All day	(Off-Peak)	3.5
<b>Summer Weekdays</b>	7:00 a.m. to 11:00 a.m.	(Mid-Peak)	7.5
	11:00 a.m. to 5:00 p.m.	(On-Peak)	10.5
	5:00 p.m. to 10:00 p.m.	(Mid-Peak)	7.5
	10:00 p.m. to 7:00 a.m.	(Off-Peak)	3.5
<b>Winter Weekdays</b>	7:00 a.m. to 11:00 a.m.	(On-Peak)	10.5
	11:00 a.m. to 5:00 p.m.	(Mid-Peak)	7.5
	5:00 p.m. to 8:00 p.m.	(On-Peak)	10.5
	8:00 p.m. to 10:00 p.m.	(Mid-Peak)	7.5
	10:00 p.m. to 7:00 a.m.	(Off-Peak)	3.5

11. Install a completely programmable thermostat. Rebates are available from the government and effectively programming the thermostat can result in a 25% to 35% savings on your heating and cooling costs. Effective programmable thermostats cost approx \$49 and up. When programming your thermostat, do so that it will minimize the time the furnace or air conditioner need to work! If no one is home during the day, allow the temperature to rise in summer and lower in the winter (not below 20 degrees in the winter). In the evenings, program the thermostat to a lower temperature in winter and higher in the summer. Temperature settings certain vary with every individual.

While there are numerous tips available to save energy, these are suggested to provide you some of the biggest gains for your time, and effort. Each individual is different; results will vary. The below provides an illustration of potential reductions we can all achieve. Remember average household across Canada consumes an average of 750 kwh's per month or 8,000 to 10,000 kwh's per year.

Tips	Kwh / Year	Kwh / Month Average	Monthly Cost at Current Rate	Annual Cost
PreTip High Avrg	9500	791.67	\$79.17	\$950.00
Thermostat	6980	581.67	\$58.17	\$698.00
Fridge Tips	6005	500.42	\$50.04	\$600.50
Water Tank	4755	396.25	\$39.63	\$475.50
Clothes Dryer	4330	360.83	\$36.08	\$433.00
Bar BQ	4120	343.33	\$34.33	\$412.00

Implementing these simple cost effective tips you can effectively decrease your consumption by approximately 56% or \$538.00 annually as of June 2006.

Please remember our goal is to lower your energy consumption and cost. With minor changes to lifestyle we can accomplish a great deal and improve living for everyone!

**Let us show you how.**

***Think Different!!!***



15 Rivercourt Blvd  
Toronto, Ontario  
Canada, M4J 3A3

Tel. 416.425.8159

Email. [Info@spherebusiness.com](mailto:Info@spherebusiness.com)

[www.spherebusiness.com](http://www.spherebusiness.com) & [www.SolarGrid.ca](http://www.SolarGrid.ca)