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Electricity is a critical resource. The efficient use of electricity is extremely important not only from the point of view of monetary savings, but also from environmental conservation.

Today, the demand for electricity is witnessing a rapid growth. In energy deficient country like ours, there is always a gap between demand and supply. The shortfall in demand and supply is especially pronounced during hours of peak demand.

Electricity is generated by using resources like coal, petroleum, wind, sunlight, tidal wave, biomass etc. Efficient usage of electricity leads to efficient usage of the above resources thus leading to Environmental Conservation.

Energy usage is directly linked to hours of usage of any electrical appliance. The longer an appliance is used, the more energy it will consume. Electrical appliances are rated in watts (W) or kilowatts (KW). The higher the kilowatt rating, the more energy an appliance will use in a given time.

Electricity usage is metered in units or kilowatt hours (kWh). Each unit represents 1000 watts of electricity used for one hour.

In this booklet, CESC Limited present to simple tips, which, when followed in day to day life can lead to savings, both in terms of electricity bills and environmental resources.

## Let there be Light

- ☼ Turn off lights when not required.
- ☼ Dust the tube lights and lamps regularly to save 50% of energy.
- ☼ Use fluorescent tube lights and CFLs - save about 70% of energy and get brighter illumination. Incandescent lamps waste 90% of energy through heat.
- ☼ Use T5 (slim) tube lights and electronic ballasts in place of conventional tube lights and copper/aluminium chokes.

## Comparative Load of Incandescent Bulbs vis-à-vis CFL & LED

INCANDESCENT BULB	CFL	LED
ZERO BULB (15W)	5W	2W
40W	8W - 11W	3W TO 4W
60W	12W - 15W	6W
100 W	20W - 23 W	12W



### Save while you heat!


- ☼ Use Microwave ovens for quicker and energy efficient cooking.
- ☼ Place larger and thicker items of food on the outside of the platter.

### Save while you cool!

- ☼ **Keep your refrigerator** away from all sources of heat and allow enough space for continuous airflow around the refrigerator.

### Save while you chill!

- ☼ Use Star Rated Air Conditioner only.
- ☼ Set the thermostat of room air conditioner at 25 degree C (green temperature) to maximize comfort at a minimum cost.
- ☼ Always keep doors to air-conditioned rooms closed.
- ☼ Clean filters enable the unit to cool down quickly and use less energy. A dirty air filter will reduce airflow and may damage the unit.

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- ✿ To allow adequate air circulation inside the refrigerator, do not over fill it.
  - ✿ Avoid opening the refrigerator door unnecessarily as it will increase electricity use.
  - ✿ Cool down and cover food well before placing it inside the refrigerator.

## Save while you surf!

- ✿ Turn off your home/office equipment when not in use. A computer that runs 24 hours a day, for instance, **uses more** power than an energy-efficient refrigerator.
- ✿ Enabling sleep-mode in computers, monitors, and copiers help cut energy costs by approximately 40%.
- ✿ Pull out the battery chargers such as those for laptops, cell phones and digital camera from the socket when not in use.

## Save while you work!

- ✿ All industrial, public waterworks and LT commercial establishments having contract demand of 10 KVA & higher must install capacitor banks.
  - ✿ Improve efficiency of compressors, air-conditioning plants by ensuring regular maintenance..
  - ✿ Ensure proper loading/sizing of the motor, pumps etc.
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