

# Enjoy Power Responsibly

Over the years, Delhi's power demand has grown phenomenally. In May this year, Delhi's power consumption reached a whopping 4823 MW, its highest ever, surpassing 2010's maximum of 4720 MW. Delhi's per capita power consumption of 1615 units is also more than double the national average.

Delhi produces around 1/4<sup>th</sup> of its total power requirement. For the rest, it depends on other states to fulfill its electricity needs. Do you know, it takes 1 kg of coal to produce between 2 and 5 units of power? It is time, we as citizens of the national capital – Delhi, do our bit to conserve energy and reduce our carbon footprint.



BSES Rajdhani Power Limited (BRPL) and BSES Yamuna Power Limited (BYPL) have launched "My Cool Idea", a campaign that seeks to engage you to elicit your ideas and suggestions to reduce power consumption and encourage energy conservation. These ideas will be uploaded on the BSES website, where a special icon has been created.

So what are you waiting for! Share your ideas on energy conservation. Log on to [www.bsesdelhi.com](http://www.bsesdelhi.com) - NOW!

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# Tips on Energy Conservation

Since electricity is a scarce commodity, it must be used prudently. Doing so (especially during peak hours\*), will not only help you conserve electricity, but also save money in the process. Here are some tips.

## Sun Control Films

- Sun Control Films help insulate your homes, offices and other spaces from heating-up due to solar radiation especially due to ultra violet (UV) exposure. Such measures not only save substantial power needs for air conditioning but also protect humans from the ill effects of UV rays
- Air conditioning can account for 30-50% of a company's/ household's annual energy costs. Sun control film typically delivers 5-10% energy saving. The amount of heat and light that's let in depends on the type of sun control film used and can reject up to 80% heat

## White-Roofing

- Painting the roofs white or installing white tiles on commercial and residential roofing can cut air conditioning costs by around 20 %. Experts claim converting 1,000-square-foot roof with white material would offset 10 metric tons of greenhouse gases

## Switch off

- Avoid keeping electronic appliances in the stand-by mode since your electricity meter records such consumption. A survey has shown that Delhi loses about 175 MW of the electricity produced in the city annually to the gadgets switched off from the remote control (stand-by mode)
- Use Star Rated energy efficient appliances to minimize consumption

## Lighting System

- Turn off lights and fans when not in use
- As far as possible use task lighting which focuses light where it is needed
- Replace the ordinary lamps with energy efficient CFLs which use 80% less energy
- Clean tube lights and bulbs regularly as dirty ones can waste upto 50% of the light through absorption
- LED lighting is eight times more energy efficient than incandescent bulbs and twice as energy efficient as a CFL. 90% of the energy consumed by an ordinary bulb is given off as heat rather than visible light
- Take advantage of natural daylight by using light-coloured, loose weave curtains on your window to allow day light to penetrate the room

## Room ACs

- Air-conditioners cost over Rs 10 per hour to run. You can reduce energy use by as much as 40% by shading the windows and the walls with plants etc
- Set the AC thermostat at 25 degree C to provide most comfort at least cost
- Keep the doors of the air-conditioned rooms closed as far as possible
- Clean the AC filter every month
- Whenever possible, all family members should watch TV or rest in one room, instead of having more than one TV or AC turned on in various rooms of the same home at the same time

## Refrigerator

- Make sure the refrigerator is placed away from any heat source including direct sunlight
- Allow enough space around the refrigerator for continuous airflow. If the heat cannot escape, the cooling

system will have to work harder and use more energy

- Defrost the freezer compartment regularly for a manual defrost refrigerator
- Do not keep your refrigerator door open for too long
- Periodically check the condition of the door gasket

## Microwaves

- Soak vegetables in hot-water before cooking them in microwave. This will reduce cooking time
- One can save 50% on cooking energy costs by using a microwave oven instead of a regular oven
- Place larger and thicker items towards the outside edge, as microwaves cook from the outer to the centre of the dish

## Computers

- Turn off the computer when not in use
- The monitor uses more than half the energy consumed. Turn it off even if you have to leave the computer on
- Screen savers do not save energy. Start ups and shutdowns do not use any extra energy and nor do they harm the components, so shutting down computers when not in use actually reduces system wear and tear and also saves energy

## Inverter/Generator/Geysers

- Install a Total Isolation Relay for invertors/generators/geysers to prevent your electricity meter from running during a power cut
- Install Thermostat fitted geysers
- Get your geyser serviced every year

Appliances and electronics really add up on your energy bill. When shopping for new appliances and electronics look for energy efficiency labels.

\* Summer peak hours:- 2 pm to 4 pm & 8 pm to 11 pm  
Winter peak hours:- 7 am to 9 am & 7 pm to 9 pm



## BSES Helpline Numbers

BRPL 399-99-707  
BYPL 399-99-808

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