

थांबा ....

आजच विचार करा.....

उद्या कदाचित फार उशीर झालेला असेल



गरज नसताना  
आम्हाला बंद करा



वाचवाल....

तर वाचाल.....



**महाराष्ट्र ऊर्जा विकास अभिकरण (महाऊर्जा)**

(महाराष्ट्र शासनाची संस्था)

म्हाडा कमर्शियल कॉम्प्लेक्स, २ रा मजला, त्रिदल नगरसमोर, येरवडा, पुणे - ४११ ००६.

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वीज बिलाची भीती नष्ट करणारे महाअस्त्र..

— ✂ — **एल.इ.डी.** — ✂ —



एल.इ.डी. दिव्यांमुळे ८०% वीज वाचते...  
अशा उपकरणांच्या दैनंदिन वापरानेच ऊर्जेसोबत  
आपल्या पैशाचीही निश्चित बचत होते.



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**ENERGY EFFICIENCY  
THE ONLY OPTION FOR BALANCING**



**CONVENTIONAL  
ENERGY**

**RENEWABLE  
ENERGY**



**SWITCH OFF THE LIGHT IF NOT NEEDED,  
AND SAVE THE ENVIRONMENT**



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स्टार मानांकीत उपकरणांची निवड म्हणजे..

पैशाची बचत,  
ऊर्जेची बचत,  
देशासाठी  
योगदान !



अधिक स्टार म्हणजेच अधिक ऊर्जेची बचत !



★ कोणतेही विद्युत उपकरण विकत घेताना ऊर्जा बचतीचे स्टार मानांकन अवश्य तपासा. जास्त स्टार असणाऱ्या उपकरणांचीच सदैव निवड व वापर करा.



**महाराष्ट्र ऊर्जा विकास अभिकरण (महाऊर्जा)**

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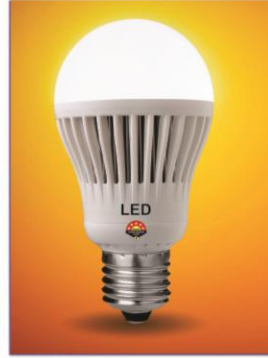


अनेक  
ठिकाणी  
अशी  
वीज वाया  
जात आहे...

किती दिवस आपण झोपून राहणार ?

**वीज वाचवणे आपल्याच हातात आहे !**

- गरज नसताना विद्युत उपकरणे बंद करा.
- उर्जा कार्यक्षम विद्युत उपकरणांचाच वापर करा.
- पारंपारिक बल्ब ऐवजी उर्जा बचत दिव्यांचा(LED)वापर करा.
- फ्रिजचा दरवाजा जास्त वेळा उघड-बंद करू नका.
- शक्यतोवर वातानुकूलित यंत्राचा वापर करू नका.  
तसेच त्याचा तापमान नियंत्रक हा नेहमी २४°से. ते २६°से.  
तापमानाला स्थिर ठेवा.



**वीजबचतीसाठी सतर्क राहा, चांगल्याची सुरुवात स्वतःपासून करा !**  
जागृत राहा... जागृत करा !



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# GO ELECTRIC GO GREEN.



Ministry of Power  
Government of India



Bureau of Energy Efficiency



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## ELECTRICITY CONSUMPTION

Appliance	Rating (Watts)	Operating Hrs/ Day	Units/ Month
Incandescent Bulb	40	6	7
	60	6	11
Fluorescent tube light	40	10	12
Fans	60	15	27
Air coolers	175	8	42
Air Conditioners	1500	6	270
Refrigerator	225	15	101
Oven	1000	1	30
Electric iron	1500	1	45
Water heater – Instant type (1-3 Litre capacity)	3000	1	90
Water heater – storage type (10-20 Litre capacity)	2000	1	60
TV	100	10	30
Washing machine	300	1	9

## TIPS ON ENERGY SAVING

### LIGHTING

- Turn off the lights when not in use.
- Take advantage of day light by using light-colour; loose weave curtains on your windows to allow daylight to penetrate the room. Also decorate with lighter colours that reflect daylight.
- De-dust lighting fixtures to maintain illumination
- Use task lighting instead of brightly lighting an entire room, focus the light where you need it
- Use electronic chokes in place of conventional copper chokes.

### COMPUTERS

- Turn off your home, office equipments when not in use. A computer that runs 24 hrs a day, for instance, uses – more power than energy –efficient refrigerator.
- If your computer must left on, turn off the monitor; the device alone uses more than half the system's energy.
- Setting computers, monitors and copiers to use sleep-mode when not in use helps cut energy cost by approximately 40%.
- Battery chargers, such as those for laptops, cell phone and digital cameras, draw power whenever they are plugged in and are very in efficient. Pull the plug and save.
- Screen savers save computers screen, not energy. Start-ups and shut downs do not use any extra energy, nor are they hard on your computer component. In fact shutting computers down when you are finished using them actually reduces system wear and saves energy.



## **AIR CONDITIONORS**

- Prefer Air conditioners having automatic temperature cut off.
- Keep regulators at 'low cool' positions.
- Operate the ceiling fan in conjunction with your Air conditioners to spread the cooled air more effectively throughout the room and operate the Air conditioners at higher temperature.
- Seal the doors and windows properly.
- Leave enough space between your Air conditioners and the walls to allow better air circulation.
- A roof garden can reduce the load on Air conditioners.
- Use windows with sun films or curtains.
- Don't place lamps or TV sets near your Air conditioning thermostats. The thermostats senses heat from these appliances, which can cause the Air conditioner to run longer than necessary.



## BLDC FAN

- **BLDC** stands for **brush-less direct-current motor**
- **These fans** would consume about **25-40 watts** of electricity which were also called **super-efficient fans**

Prominent advantages of BLDC motor over induction motor are summarized as:

- They can save up to 65 percent electricity in comparison to ordinary induction motor-based fans because they eliminate losses that result from the mechanical friction of the brushes.
- Longer backup on Inverters (even on Solar)
- Improved reliability
- Noise reduction
- Longer lifetime

	Wattage	Hourly Electricity Consumption	Daily Electricity Consumption (Assuming daily use of 12 hrs)	Yearly Electricity Consumption	Yearly Costs (assuming Rs 6 per unit)
<b>Regular Fan</b>	75 Watts	0.075 units	0.9 units	328.5 units	Rs. 1968
<b>BLDC Fan</b>	30 Watts	0.030 units	0.36 units	131.4 units	Rs. 786

# Advantages of LED Lights

- Energy efficient
- Long life
- High brightness and intensity
- Wide colour range
- Low radiated heat
- Reliability
- Instantaneous illumination

Basis For Comparison	CFL Bulb	LED Bulb
Stand For	Compact Fluorescent Lamp	Light Emitting Diode
Power Consumption	More	Less
Destruction	Difficult	Easy
Efficient	Less	More
Lifespan	10,000 hours	50,000 hours and more.
Turn on Intensity	Delay	Quick



<b>Basis For Comparison</b>	<b>CFL Bulb</b>	<b>LED Bulb</b>
Emission of heat	More	Less
Mercury	Contains	Does not contain
Brightness	Less	More
Effect of switching on/off.	Reducing lifespan	Having no effect.
Recyclable	No	Yes