



ELCOMA

Electric Lamp & Component Manufacturers' Association of India

Towards Energy Efficiency in Lighting

Do you know that power generation in India in 1947 was 1362 MW. Today we generate more than 100,000 MW. Still there is a large gap between demand and supply. The peak shortage occurs during evening / night hours when artificial lighting is extensively used. There are still more than 40% households without electricity. These people still use kerosene lanterns which not only affects the eyes and lungs, but is also a major contributor in pollution.

Lighting in India consumes 18% of total power generated, which is very high as compared to developed countries, where Lighting consumes between 8 to 12% of power. The high consumption of power for Lighting in India is mainly due to 80% of electrical points using ordinary bulb, which consumes very high power. The only immediate and short term solution is to change ordinary bulb with Compact Fluorescent Lamp (CFL) which can save up to 80% of power. Though CFL is expensive as compared to ordinary bulb, but it pays back the cost within a very short period because it not only cuts down your power bill, but also has a very long life (more than 6000 burning hours).

Cost Benefit Analysis for using Retrofit CFL Savings in Electronic Retrofit CFL over a lifetime of 6000 burning hours

1	Electronic Retrofit CFL	20W	15W	11W
2	Replaces GLS	100W	75W	60W
3	Savings in Electricity consumption over 6000 hours (2-1) x 6000 1000	480KWH	360KWH	294KWH
4	Savings in electricity bills per lamp @Rs.3.50 per KWH	Rs.1680	Rs.1260	Rs.1029
5	Cost of Electronic Retrofit CFL	Rs.150	Rs.100	Rs.100
6	Cost of 6 GLS lamps	Rs.66	Rs.66	Rs.66
7	Net savings per GLS point (4-5+6)	Rs.1596	Rs.1226	Rs.995

Conversion of 1 million GLS lamps of 100W to CFL of 20W reduces 80MW in peak load

You can join hands in saving power. Just by changing 5 lamp points in your house with CFL, you can help bridge the gap between demand and supply

You may buy CFL lamps of any of these brands which are compatible to IS Specifications



PHILIPS
sense and simplicity



HALONIX



Crompton Greaves
EVERYDAY SOLUTIONS



INDOASIAN
energy management

ASIAN

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