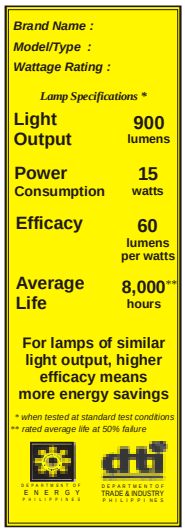
Consumer Talk...



Energy Labels are mandatory stickers or labels that are affixed to products or their packaging. They provide information to consumers on the energy efficiency performance of the product.

The objectives of the Energy Labeling Program are to eliminate the least efficient lighting system in the local market; reduce monthly electricity bill; protect consumers from mislabeling; encourage the manufacturers to improve product efficiency; and to reduce greenhouse gas (GHG) emission.

Compact Fluorescent Lamp (CFL) Performance

750 - 1000 hours		5000 - 10000 hours
520 lumens		500 lumens
50 watts		10 watts

So, when buying a CFL product, please look for the energy label on the packaging to be sure that you are buying a quality CFL product!

DEPARTMENT OF ENERGY
Consumer Welfare and Promotion Office
Energy Center, Fort Bonifacio, Taguig, MM
Hotline: (02)840-2267
Trunkline: (02) 840-1401 to 21

You may also text in your suggestions, comments, queries and complaints.
Just type: DOE <space> <message> and then send to 2920
(for Globe and Smart subscribers only)

check our website at: www. doe.gov. ph/ neecp/

October 2004

Compact Fluorescent Lamps (CFL):

What you should know

The old adage " you can pay now or you will pay later" is true when it comes to lighting. Incandescent lamps have dominated the residential lighting market for years and still do today. Why? Because they are cheaper to purchase and up until a few years ago provided an unmatched quality of light.

A new and advanced lighting technology called the compact fluorescent lamp (CFL) is a more efficient alternative to the incandescent lamp. It offers the potential for significant economic and environmental savings. A versatile range of different lamp-ballast configurations is available that can provide a comfortable, productive, and well-illuminated space if properly used.

They also have a much longer life – usually 6000-10,000 hours compared to 750 to 1000 hours for a standard incandescent bulb.

A compact fluorescent lamp will initially cost more than an incandescent bulb, but because it lasts longer and costs so much less to run, it will prove to be a better bargain over time. Just keep in mind that light bulbs cost much more to run than to buy in the first place.

When should you not use a CFL? The relatively high purchase price is least justified where energy savings are small - in fixtures that are rarely used. Focus your investments on the heavily used fixtures instead, such as where the lamp will be on for an average of at least 3 hours each day. CFLs are not intended to be used with vertical base-up position and not with electronic timers or photocell sensors, and using them with such devices can significantly reduce their life span and cause other problems.

BASIC FACTS

Compact fluorescent lamps use 70 - 80% less energy than their incandescent equivalents. When replacing a 100-watt incandescent lamp a 20 to 23-watt CFL is used.

Compact fluorescents last approximately 6,000 to 10,000, which is 8 to 13 times the life of an incandescent lamp (expected life approx. 750 - 1000 hours).

Most of the compact fluorescent lamps have improved color rendition. The light is a warm tone that is almost identical to that of an incandescent lamp. Most people can't tell the difference.

Compact fluorescents are most cost-effective when used at least 4-5 hours per day.

Although compact fluorescent lamps may appear different than the common incandescent, they fit most standard fixtures found in homes today. The screw-in base is the same on both lamps.

The typical incandescent lamp wastes 90% of the energy it uses, producing heat rather than light.

SAVINGS CHART - QUALITY CFL vs. QUALITY INCANDESCENT BULB

	INCANDESCENT BULB	COMPACT FLUORESCENT LAMP
Input Power, watts	100 W	20 W
Cost of First Lamp, Php	21.00 Php	150.00 Php
No. of Lamp Replacements, units	5 units	0
Replacement Cost	105.00 Php	0
Energy Cost	5,298.00 Php	1,060.00 Php
Total Energy & Lamp Cost	5,424.00 Php	1,210.00 Php
Net Savings		
Cost, Php		4,214.50 Php
Demand, kW/unit		0.080 kW/unit
Consumption, kWh		480 kWh
Greenhouse Gas (GHG)		285 kg CO2e

Assumptions: a. Quality incandescent bulbs last 1,000 hours per unit
b. Quality CFLs last 6,000 hours per unit, have high efficacy for proper lumen equivalence
c. Residential energy cost projected a t P8.83/ kWh (as of June 2005)