

## Sample Computation

**Phantom Loads : 80 watts**

**Energy Consumption per month:**

= 80 watts x 24 hours x 30 days

= 57,600 Wh or 57.6 kWh

Note : ( 1000 Wh = 1 kWh)

**Energy Cost per month :** (at P8.83/kWh)

= P 8.83 x 57.6

= P 508.61

**Annual Cost :** P 508.61 x 12 = P 6,103.32

*Phantom loads consumes approx. 6% - 10% of the electricity used in typical homes. Over the year, that can be several hundred pesos of waste. Wouldn't you rather use that money for something else?*

## How to deal with these phantom loads

- Unplug the appliance! However, constant plugging and unplugging is a pain and wears out the plug and socket quickly.



- Use quality extension cords with multiple female plugs that are switched on the plug strip. When the plug strip is switched off, all the appliances plugged into the strip are disconnected from the power source.



DEPARTMENT OF ENERGY  
Consumer Welfare and Promotion Office  
Energy Center, Fort Bonifacio,  
Taguig City  
Hotline: (02)840-2267  
Trunkline: (02) 840-1401 to 21 loc. 329

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Consumer Talk . . .



*Do you know that there are a dozen or more thieves living in your house, quietly stealing 6 -10% of all the electricity that you are billed for?*

Chances are you haven't heard of the term "**phantom load.**"

What is it and how does it affect you?

While you think you're conserving energy by turning off lights and appliances, many of the common electrical items today are actually on "stand by" mode. This is a design feature to provide us the convenience of time - this convenience costs us money because they continue to use electricity even when they are not on. This mysterious draw of electricity is known as a **phantom electrical load.**

A **phantom load (PL)** is an electrical device that is operating 24 hours a day 365 days a year, even if you think the device is turned off. These are *the glowing red lights you see at night*, reminder lights that your appliances are using electricity even when you think they are off. They have hidden energy cost that most people are never even aware of.

In fact, electronic devices like these can consume 5 to 8 watts each even when "off",

Regardless of the electrical power source, phantom loads waste energy because they don't do anything in return for their power consumption. While in the individual sense, these phantom loads are small, in the collective sense, we're wasting enormous amounts of electricity.

## Common Phantom Loads

PL = 15 watts  
Electricity Cost per month : P 95.36



Microwave w/ clock



Cordless Phone

PL = 4 watts  
Electricity Cost per month : P 25.43



Instant-on TV

PL = 28 watts  
Electricity Cost per month : P 178.01

4 watts  
Electricity Cost per month : P 25.43



Answering Machine

PL = 14 watts  
Electricity Cost per month : P 89.01



VCD/DVD Player



PL = 8 watts  
Electricity Cost per month : P 50.86



Hi-fi Stereo

PL = 20 watts  
Electricity Cost per month : P 127.15

Power Adaptor and AVR

Note: Basis for computation:

\*Cost per kWh : P8.83/kWh (as of June 2005)

\*Usage : 24 hrs per day, 30 days per month