

# BASIC PARAMETERS IN ELECTRICITY CONSERVATION

Electricity Consumption (kWh) =

$$\text{Appliance Rating in Watts} \times \text{Number of Hours of Usage} \div 1000 \frac{\text{watts}}{\text{kilowatt}}$$

Example (Air Conditioner)

$$769 \text{ Watts} \times 4 \text{ Hours} \div 1000 = 3.076 \text{ kWh}$$

1. Reduce the number of units that are being used.
2. Use appropriate size/ wattage of appliance/equipment for your needs.
3. Reduce the operating hours/frequency of use of appliance/equipment.
4. Use appliances/equipment with **higher efficiency rating**.
5. Find other **alternative ways** of doing things aside from using electric appliances.



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# HOUSEHOLD ENERGY SAVING TIPS



## On lighting...



- **Plan the location** of lighting fixtures.
  - Use the **appropriate wattage** for the lighting purpose.
  - Use **natural lighting** when feasible.
  - Replace incandescent bulb with a **Compact Fluorescent Lamp (CFL)**.
- **Put off lights** that are not needed.
  - **Clean the tubes** of the lamp regularly.

## On cooking...

- **Plan** before you cook.
- **Thaw frozen food** before cooking.
- **Match the pan/cookware size** with the heating plate.
- **Set to medium or low heat** when the water/liquid is already boiling.
- Do not reheat food using the **electric stove**.



## On washing and ironing...



- **Soak clothes** in detergent before loading them up in the washing machine.
  - Use the **right size** of washing machine for your need.
  - **Do not overload** the unit.
  - **Do not over-wash** the clothes.
- Do all the ironing at **one time**.
  - Use **iron with thermostat**, and select the appropriate heat level.
  - Iron **heavy clothes first** and dampen clothes moderately.
  - **Avoid watching TV** or doing other things while ironing.



## On using the refrigerator...

- Ensure that there is **no leakage** at the door, and **avoid frequent door opening**.
- **Defrost** the unit once a week.
- **Clean** the condenser tube regularly.



## On cooling and ventilation...



- Buy an aircon unit with **Yellow Energy Label**. The higher the **Energy Efficiency Ratio (EER)** the better.
  - Use the **right size of fan/aircon** for your need.
  - Use an aircon with **timer/ecozone**.
- Place the unit in a ventilated area and **regularly clean** the condenser and evaporator.
  - Determine your **comfortable level**. When using an aircon, set the temperature at 25°C.
  - Avoid using **fan oscillator**.
  - **Turn off** the fan/aircon if not needed.

## On using gadgets and other appliances...

- Use electric airpot **sparingly**.
- **Turn off battery/cellphone charger** when charging is complete.
- **Limit/shorten** the use of TV/computer.
- Avoid putting VCR/ TV/ stereo/ computer on stand-by mode.



- ✓ ENERGY CONSUMPTION is dependent on the following: (a) the wattage rating/size of the appliances/equipment, and (b) length of time of usage.
- ✓ USERS have different needs and behavior in the use of appliance/equipment.
- ✓ Due to economic and technical considerations, some appliances/equipment are inherently inefficient.