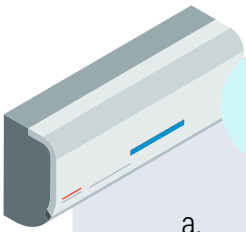


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Making Your Home



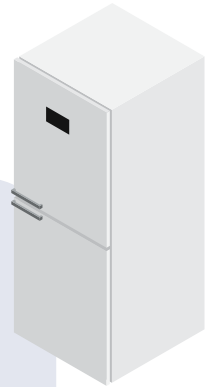
Energy Efficient



1 Air-conditioners

- a. Inverter type of air-conds are very efficient.
- b. If possible change to or select air-conds with 5-star Energy Efficiency Labels.
- c. Ensure filters are clean.
- d. Turn off when not in use.
- e. Recommended temperature setting: 23°C to 25°C.
- f. For air-conditioned area, keep doors closed. However, do ensure there is sufficient ventilation. We are able to offer services to measure carbon dioxide (CO₂) levels.

2 Refrigerators



- a. Ensure your fridge has sufficient ventilation, especially for the back and the top. The easier your fridge gets rid of the heat, the less energy it will use. Manufacturer will have the specification in the user manual. Typically, leave a gap of about 10cm between the back of your fridge and the wall. Refer to the user manual for ventilation / gap requirement.
- b. If possible, change to inverter type with 5-star energy efficiency label.
- c. If you have multiple small fridge, considering using one large fridge. It's more efficient.
- d. If the fridge is more than 10 years old, considering changing it to a new unit. Old fridges can consume more energy. Savings may pay for the new fridge within 2 years.
- e. Check thermostat setting of your fridge. It should be cold enough to keep food fresh but not too cold.
 - i. Recommended temperature setting for fridge: 3°C to 4°C
 - ii. Recommended temperature setting for freezer: -17°C
- f. Use a suitable thermometer to check the temperature of your fridge and freezer.
 - i. If freezer or fridge is too warm, it is an indicator of malfunction and energy wastage. Get the refrigerator serviced or replaced.



3 Energy Efficient Appliances

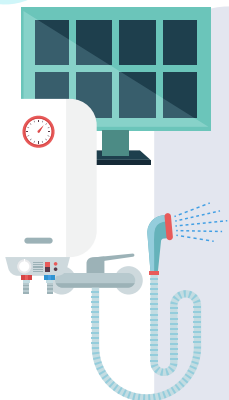
- a. When you purchase new appliances, select appliances with Suruhanjaya Tenaga's Energy Efficiency Label with 5 stars. See [here for more tips](#)

4 Lights

- a. When you purchase new lights or replacement lights, select LED lights with at least 1 year warranty.
- b. For lights that you leave on for more than 12 hours, change the lights to LED
- c. Spotlights should be changed to LEDs immediately.
- d. Select light fixtures with minimum shading of the light bulb. This will give you more light; and you can use a lower wattage / power light bulb.
- e. Use as much natural light as possible.
- f. If you leave outside / compound lights on for security, consider a motion activated light instead of leaving the lights on the whole night. Less light pollution is better for the environment too.
- g. Use timers.
- h. LED lights with a good warranty period (at least a year) is preferred.



5 Solar Water Heaters



- a. Solar water heater uses electricity.
- b. If you leave your solar water heater on all the time, it will use electricity to keep the water warm even when you do not need warm water.
- c. It is best to turn off power to the solar water heater when you do not need it.
- d. Check the settings of your solar water heater with the manufacturer. It should not be on standby to always keep the water warm.



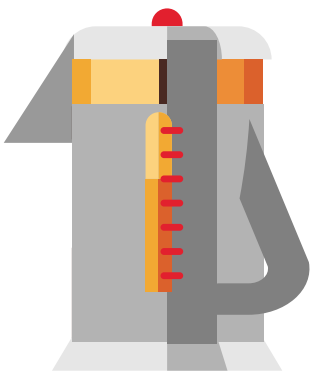
6 Roof

- Install heat shield or insulation (rock wool)
- When less heat enters the house, you will use less energy to cool the house.

7 Shading

- Provide shading (awning or trees) for windows and facade facing west / sunset; and there is direct sunlight.
- Tint windows (especially windows facing the sunset) that have direct sunlight.
- Don't worry about windows shaded by another house (neighbour's house), another structure or trees.
- Blinds and curtains can help reduce heat entering the house. However, it's best to stop the heat before it passes your window (tint, outdoor shading is better).

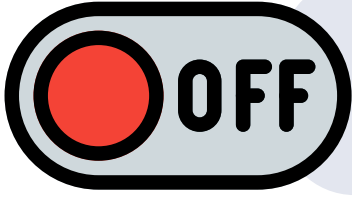
8 Water Filter and Water Heaters / Thermopots



- Water filters that we have tested uses very little energy.
- [Electric hot water pot / water boilers / thermo pot](#) can waste a lot of energy keeping water warm. Use a good hot water flask to store hot water.
- Alternatively, use an [electric kettle instead](#).

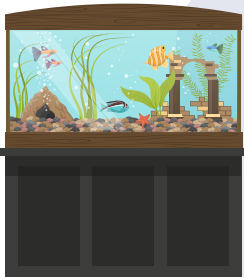


9 Turn Off Equipment



Don't leave equipment like washing machines, microwave ovens, ovens, phone chargers, home entertainment systems, computers and printers on standby. Turn it off completely. It's also safer to turn it off completely.

10 Water fountains, fish tanks



- If there is a motor for the pump larger than 0.5kW (or 500W), use motor with high efficiency ratings (IE3 motors).
- Consider turning off water features when not required.



11 Clothes Dryer

If condition permits, use natural sunlight to dry clothes. It's free.



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