

Energy efficiency is achieved by using less energy to perform similar tasks with the use of, in most cases technologically advanced energy saving devices

Energy conservation is the practice of lowering the amount of energy used - by adjusting behaviours and habits



Lots of benefits for individuals and society on a whole



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Promoting Efficient Energy Use



Achieving a High Efficiency Status

Key Roles of PURC

Facilitate energy efficiency as a strategy for electricity sector development

Promote energy management and energy efficiency projects

Identify and plan additional programs for the promotion of energy efficiency by licensees, self-generators, and the general public

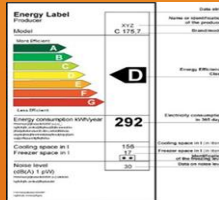
Energy Saving Tips

Save money on your household bills

Switch off or unplug products when not in use

Buy energy efficient appliances – with at least an A rating or an Energy Star label

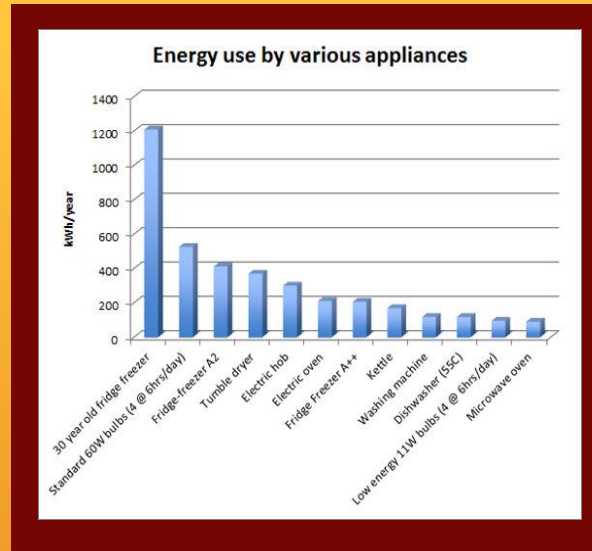
Know your energy efficiency labels



Wait until you have a full wash load before washing

Don't keep the fridge or freezer door open for longer than necessary

Replace incandescent lights with energy saving compact fluorescent lamps or LEDs lights



Calculating your Energy Usage

Electrical energy is measured in kilowatt hour (kWh)

| Appliances | Annual estimates (2019) | | | | Cost Implications |
|-------------------------------------|-------------------------|------------------|-----------|------------------|--|
| | Uses/ hours | kW per use/ hour | Total kWh | Total cost (XCD) | |
| 30 year old fridge freezer | 8760 | 0.14 | 1209 | \$1,063.92 | One third less running cost than older fridge freezer |
| Fridge Freezer A | 8760 | 0.05 | 412 | \$362.56 | |
| Fridge Freezer A++ | 8760 | 0.02 | 206 | \$181.28 | Half the running cost of an A label fridge freezer |
| Standard 60W bulbs (4 @ 6hrs/day) | 8760 | 0.06 | 526 | \$462.88 | Six times less running cost than a standard bulb |
| Low energy 11W bulbs (4 @ 6hrs/day) | 8760 | 0.01 | 96 | \$84.48 | |
| Kettle | 1542 | 0.11 | 170 | \$149.60 | Typical running costs depends on your usage patterns and the efficiency ratings of the given appliances - Changing your usage patterns and switching to more efficient appliances can lower your bills |
| Washing machine | 187 | 0.63 | 118 | \$103.84 | |
| Dishwasher (55°C) | 110 | 1.07 | 118 | \$103.84 | |
| Microwave oven | 96 | 0.95 | 91 | \$80.08 | |
| Tumble dryer | 148 | 2.5 | 370 | \$325.60 | |

Calculating your lighting cost impacts as a typical domestic energy efficient customer: Using our 11W bulb from the previous table which consumes 11 Watts for each hour it is used or 11/1000=0.011kWh

If this bulb is on for 6 hours (h), the amount of energy consumed is: 0.011kW x 6h = 0.066kWh

If the bulb is used 6 hours per day for a 30 day month, energy consumed will be: 0.066kWh x 30 = 1.98kWh/month

The cost of operating one (1) of these bulb per month would be: 1.98kWh/month x (\$0.88)(electricity rate) = \$1.74/month

Inherent Benefits of Energy Efficiency

- Increased personal savings – more money in your pocket
- Environmental value
- National benefits – need for generation investments is deferred.

