

1 FIRST AID

Disconnect the appliances or turn off the power if the person is undergoing electric shock. After having broken contact with electrical source, cover associated electric shock burns with a dry sterile dressing only. Never touch a person undergoing electric shock or you too could become a victim. Call emergency as soon as possible.

2 VOLTAGE

Voltage is the pressure from an electrical circuit's power source that pushes charged electrons (current) through a conducting loop, enabling them to do work such as illuminating a light. Voltage is measured in volts. The term recognizes Italian physicist Volta, inventor of the voltaic pile, forerunner of today's household battery.

3 RECHARGER

A battery charger, or recharger, is a device used to put energy into a secondary cell or rechargeable battery by forcing an electric current through it. The charging protocol (how much voltage or current for how long, what to do when charging is complete, for instance) depends on the size and type of the battery being charged.

4 POWER BANK

A power bank is a portable device that can supply power from its built-in battery through a USB port. Power banks are popular for charging smaller battery-powered devices with USB ports such as mobile phones and tablet computers and can be used as a power supply for various USB-powered accessories such as lights and fans.

5 ELECTRICITY

Electricity is a fundamental form of energy observable in positive and negative forms that occurs naturally (as in lightning) or is produced (as in a generator) and that is expressed in terms of the movement and interaction of electrons. We need it so all our computers, refrigerators, televisions and all the electric objects will work.

6 LAUNDRY

In summer, on hot days, do your laundry early in the morning, when energy demand is lower. Dry your clothes by the sun heat in central day hours. In winter instead, do your laundry late at night. While everyone else is sleeping and has home heaters off or in energy-saving mode, you can take advantage of lower electricity rates.

7 BENEFITS

Here are five of the environmental benefits of renewable solar energy. It reduces air pollution. Remember that fossil fuels create a lot of pollutants. It reduces water usage, and limits dependence on nonrenewable energy sources. In the long-run, it improves humanity's health. Finally, solar energy helps fighting climate change.

8 SUN POWER

Solar power is energy from the sun that is converted into thermal or electrical energy. Nowadays solar technologies can harness this energy for a variety of uses, including generating electricity, providing light or a comfortable interior environment, and finally heating water for domestic, commercial, or industrial use.

9 SENSORS

Instead of being embedded in the pavement, infrared sensors are mounted overhead to detect the presence of vehicles in an intersection. When that energy is interrupted by the presence of a vehicle, the sensor sends a pulse to the traffic signal to change the light. They can signal vehicle presence for speed measurement.

10 BILLS

The reason why your electricity bills are so high is that the more electricity you use, the more you pay per unit of electricity. So, if your electricity bill is twice as high as usual, it's not simply because you used twice as much electricity. Turning off the lights at night or washing clothes in cold water can help families in saving energy.

11 REMOTE CONTROL

The transmitter in the remote control handset sends out a stream of pulses of infrared light when the user presses a button on the handset. The infrared light pulses form a pattern unique to that button. The receiver in the device recognizes the pattern and causes the device to respond accordingly, choosing a TV function.

12 INVERTER

An inverter is energy saving technology that eliminates wasted operations in air conditioners by efficiently controlling motor speed. Compared to non-inverter type air conditioners, air conditioners with inverters have less power loss and can save in energy. The conditioners are able to run more consistently and at controlled speeds.

13 REFRIGERATOR

A refrigerator is a large container which is kept cool inside, usually by electricity, so that the food and drink in it stay fresh. It combines both the cooling and freezing mechanism. It has a compressor which generates heat while working hard to cool the fridge. In modern fridges, freezer compartment is tucked away under the unit.

14 STANDBY

When electronic devices are receiving power but are not running, they are in a standby mode. When a computer is in a standby mode, it is not completely turned off. Instead, it has already been turned on, but has gone into “sleep” mode. Turning off TV at the end of the evening will prolong its life compared to an all day standby.

15 BATTERIES

Primary batteries are designed to be used until energy is exhausted, then discarded. Their chemical reactions are generally not reversible, so they cannot be recharged. When the supply of reactants in the battery is exhausted, the battery stops producing current and is useless. Secondary batteries instead can be recharged.

16 SHOCK

An electric shock occurs when a person comes into contact with an electrical energy source. Electrical energy flows through a portion of the body causing a shock. Exposure to electrical energy may result in no injury at all or may result in devastating damage, severe burns, permanent organ disease or untimely death.

17 PPE

An electrician at work has to use Personal Protective Equipment, commonly referred to as PPE. It is equipment worn to minimize exposure to hazards that cause serious workplace injuries and illnesses. These injuries may result from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards.

18 SAFETY

When working with electricity, you can never be over-protected, so safety clothing should be worn as a preventative measure from electrical shocks and burns. One of the most important items for electricians to wear are rubber insulated gloves which act as a barrier against electric shocks. Avoid being too overconfident while working.

19 AIR CONDITIONING

An air conditioner is a system that is used to cool down a space by removing heat from the space and transferring it to some outside area. It works to maintain a cool atmosphere in warm conditions; by it you can decrease hot inner temperature. Air conditioners act similarly to a heat pump, but instead they follow a cooling cycle.

20 LED

LED lighting is staging a revolution. Over 90% more energy efficient than halogen and lasting up to 50 times longer than incandescent, LED technology is the outstanding solution for all domestic and commercial lighting applications. You can find a wide range of lighting products and accessories for use in homes and offices.

21 E-VEHICLES

An electric car is a car which is propelled by one or more electric motors, using energy stored in rechargeable batteries. Compared to internal combustion engine vehicles, electric cars are quieter, have no exhaust emissions, and lower emissions overall. In absolute terms, in 2020 China remained the world's largest EV market.

22 PERIPHERALS

Peripheral devices are devices that attach to the computer and are external to the case. Sometimes they are called I/O devices indicating if they are input or output devices. Many of external peripherals connect to ports on the back of computers. The microphone, the webcam, the scanner, the printer, speakers are peripherals.

23 DISHWASHER

When you are going to wash a new dish you should check if it is dishwasher safe. It essentially means that the item has been treated, at some stage of the production process, to ensure that the prolonged high temperatures of the dishwasher, and highly effective detergents, don't compromise the item and cause it any damage.

24 STORAGE

Digital technology enables the storage of massive amounts of information in relatively small spaces. Large amounts of media, such as photos, music, videos, contact information, and other documents can be carried around on small devices like mobile phones. Storage allows you to find and access data on a long-term basis.

25 LIGHT BULB

An electric-light bulb is an electric lamp consisting of a transparent or translucent glass housing containing a wire filament (usually tungsten) that emits light when heated by electricity. The image of a light bulb is often used as the symbol of invention and sometimes of intelligence or ideas, or to indicate light or connections.

26 INPUT

In computing, an input device is a piece of equipment used to provide data and control signals to an information processing system such as a computer or information appliance. In our daily use of computers we frequently utilize input devices, including keyboards, mouse, scanners, cameras, joysticks and microphones.

27 OUTPUT

An output device is any piece of computer hardware equipment which converts information we input in our PC into human readable form. It can be text, graphics, tactile, audio and video. Some of the output devices we frequently use are Visual Display Units as monitor, printer, speakers, plotters or other graphic output devices.

28 VOLTA

Volta was an Italian physicist, chemist, and pioneer of electricity and power who is credited as the inventor of the electric battery and the discoverer of methane. He invented the voltaic pile in 1799. With this invention he proved that electricity could be generated chemically and led to the development of electrochemistry.