

# Which technology device consumes electricity?

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**Try to calculate in detail how common household technology devices increase electricity bills and limited solutions.**

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You might have been 'clicking the tongue' when you didn't turn off electrical devices such as DVD players, modems, or speaker systems but only kept them idle because they thought they were only used 'a little' of power. This standby mode. But in our house now there are many devices that are usually in Standby mode and they consume more power than you think. The Lawrence Berkeley National Laboratory research shows that this electricity consumption is in the range of 5-10% of every household's electricity consumption.



*The figures below are only averaged, which may be further increased by other wasteful usage habits. The cost calculated here is based on consumer electricity prices in the US market.*

## 6 most expensive items

**Desktop computer - about 7 USD / month**

Many home users always want the computer to be ready to use and forget that even in standby mode, the device still consumes nearly the same amount of power as it does. The reason is that the memory, the drives and the processor actually still work.

### **Game console machines - about 6 USD / month**

In fact, these modern gaming machines can be regarded as specially customized computers for gaming purposes because they are nearly full of common computer components. Therefore, if you or your kids do not have the habit of turning off the gaming machine after each use, it will cost you a bit close to forgetting to turn off the computer.

### **Plasma or LCD TV screens - about 5 USD / month**

Plasma TVs are very famous for consuming electricity, it radiates heat and consumes twice as much electricity as LCDs of the same size. Previously there was news that the EU banned the use of Plasma TVs to enhance energy saving.

### **Cable TV receiver - about 3 USD / month**

These devices, even when not working, still consume a lot of power.

### **Laptops - about 1.5 USD / month**

If your laptop displays a standby screen with a slide show when not in use, it even consumes more power than when you actually use it.

### **Video / DVD player - about 1 USD / month**

If you do not turn off the player after watching the movie, it will return to Menu screen mode. In this mode, the reading eye still works continuously.

Though it doesn't look much, all household electrical appliances can cost you an extra \$ 100 - \$ 160 a year. The US Department of Energy warns that each year, the country suffers about \$ 4 billion in losses. This also leads to an impact on the ecological environment. Thermoelectric sources are generated from coal and will release sulfur dioxide, nitrous oxide and carbon dioxide into the atmosphere.

To visualize more, a 100w light bulb that is lit for 1 year needs energy from more than 323kg of coal. It also produced 2.2kg of sulfur dioxide, 2.3kg of nitrogen oxides and 816kg of carbon oxides. That means that not only does each family lose a small amount of money, this loss has contributed to the greenhouse effect worldwide.

There are two ways to reduce the consequences of this loss. One is to turn off all power sources when not in use, and then buy and use GREEN products, which reduce the loss and energy loss process. Please review your computer's power usage mode to set it to hibernate or turn off after a certain period of time not being used appropriately. To save, you can also consider using a smaller type of TV (certainly less energy-efficient than a large-screen TV) or a moderate screen brightness setting.

For devices that still consume a lot of power when not in use as gaming console, it is best to unplug the power after using it. A good tip is to share the power socket cluster with each other related equipment clusters, such as PCs, TVs, game consoles, players, etc. So when you turn off the power of the TV monitor, the related devices like a game console, a player, the speaker system automatically switches off as well.

In a time of price storms and economic crises, plus the risk of environmental damage from human beings, energy saving is something that each of us needs to pay attention to every day. Saving a small amount, has contributed to the great effort with the community to build a greener planet, a healthier living environment.

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