

How much energy do you use?



1

Find the daily energy consumption using the following formula:

$(\text{Wattage} \times \text{Hours Used Per Day}) \div 1000 = \text{Daily Kilowatt-hour (kWh) consumption}$

2

Find the annual energy consumption using the following formula:

$\text{Daily kWh consumption} \times \text{number of days used per year} = \text{annual energy consumption}$

3

Find the annual cost to run the appliance using the following formula:

$\text{Annual energy consumption} \times \text{utility rate per kWh} = \text{annual cost to run appliance}$



EXAMPLE 1: LCD TV

The estimated cost of running an LCD television 6 hours a day, 7 days a week.

1

Daily energy consumption:

$(149.58 \text{ W} \times 6) \div 1,000 = .8975 \text{ kWh}$

2

Annual energy consumption:

$.8975 \text{ kWh} \times 365 = 327.6 \text{ kWh}$

3

Annual cost: The utility rate is 15 cents per kWh.

$327.6 \text{ kWh} \times \$0.15/\text{kWh} = \$49.14$

Does a TV draw standby power?

Yes! An LCD TV draws power from the grid even when it's turned off.

4

Annual standby energy consumption:

42.05 kWh

5

Annual standby cost:

$42.05 \text{ kWh} \times \$0.15/\text{kWh} = \$6.31$

TOTAL COST: \$55.45



EXAMPLE 2: CEILING FAN

The estimated cost of running a ceiling fan 24 hours a day, 365 days a year.

1

Daily energy consumption:

$(34.9 \text{ W} \times 24) \div 1,000 = .83769 \text{ kWh}$

2

Annual energy consumption:

$.83769 \text{ kWh} \times 365 = 305.76 \text{ kWh}$

3

Annual cost: The utility rate is 15 cents per kWh.

$305.76 \text{ kWh} \times \$0.15/\text{kWh} = \$45.86$

Does a ceiling fan draw standby power?

When a device or appliance is in operation 24 hours a day, no standby power is calculated.

TOTAL COST: \$45.86



Here's a Bright Idea

Calculate your energy usage at the QR code, or visit va.appliancecalculator.com

At an average Virginia utility rate of \$0.15 kWh/hour. Wattage values are samples only, actual wattage of products varies depending on product age, features and settings. Estimates pulled from the calculator at va.appliancecalculator.com.