

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

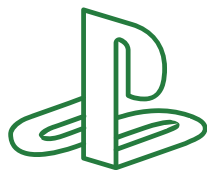
Find the annual energy consumption using the following formula:

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

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: PLAYSTATION 5

The estimated cost of playing a PS5 for two hours a day, 365 days a year.

1

Daily energy consumption:

$(350 \text{ W} \times 2) \div 1,000 = .70 \text{ kWh}$

2

Annual energy consumption:

$.70 \text{ kWh} \times 365 = 255.5 \text{ kWh}$

3

Annual cost: The utility rate is 12 cents per kWh.

$255.5 \text{ kWh} \times \$0.16/\text{kWh} = \text{\$40.88/year}$



EXAMPLE 2: DEHUMIDIFIER

The estimated cost of running a dehumidifier for 12 hours a day, 365 days a year.

1

Daily energy consumption:

$(600 \text{ W} \times 12) \div 1,000 = 7.2 \text{ kWh}$

2

Annual energy consumption:

$7.2 \text{ kWh} \times 365 = 2,628 \text{ kWh}$

3

Annual cost: The utility rate is 12 cents per kWh.

$2,628 \text{ kWh} \times \$0.16/\text{kWh} = \text{\$420.48/year}$

At an average West Virginia utility rate of \$0.16 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 energy.gov.