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How to calculate power kwh

To calculate energy consumption costs, simply multiply the unit's wattage by the number of hours you use it to find the number of watt-hours consumed each day. For example, let's say you use a 125 watt television for three hours per day. By multiplying the wattage by the number of hours used per day, we find that you are using 375 watt-hours per day. 125 watts X 3 hours = 375 watt-hours per day But electricity is measured in kilowatt hours on your electricity bill. Since we know that 1 kilowatt is equal to 1,000 watts, calculating how many kWh a particular device uses is as easy as dividing by 1,000. 375 watt-hours per day / 1000 = 0.375 kWh per day Now to find out how much that's actually going to cost you on your electric bill, you'll have to take the equation a bit further. First you'll need to figure out how many kWh the TV uses per month. 375 watt-hours per day X 30 days = 11.25 kWh per month Next, pull out your last electric bill and see how much you pay per kWh. For this example, let's say you pay 10 pence per kilowatt hour. To find how much the TV is costing you in a month, multiply your electricity rate by the kWh per month that you calculated above. 11.25 kWh per month X £0.10 per kWh = £1.13 per month Another Example Here's another more costly example: Your refrigerator runs 24 hours a day. Most refrigerators consume 300-780 watts of electricity. Let's assume you bought a model that uses only 300 watts. 300 watts X 24 hours = 7,200 watt-hours per day 7,200 watt-hours per day / 1000 = 7.2 kWh per day 7.2 kWh per day X 30 days = 216 kWh per month 216 kWh per month x £0.10 per kWh = £21.60 per month The wattage on appliances or electronics varies by device. Typically, older model appliances use more energy, but newer models tend to be more efficient. You can also purchase energy rating A appliances, which are among the most efficient appliances. Coffee maker 900-1200 watts Microwave 750-1100 watts Toaster 800-1400 watts Dishwasher 1200-2400 watts Washer 350-500 watts Dryer 1800-5000 watts Iron 100-1800 watts Ceiling fan 65-175 watts Space heater (40gal) 4500-5500 watts Hair dryer 1200-1875 watts Laptop 50 watts Computer monitor 150 watts Computer tower 120 watts Television 19'-36' 65-133 watts Television 53'-61' 170 watts We all have received a high energy bill at some point. Now's a good time to learn how to calculate your kWh rate, so that you can start saving. Your electric meter reads your electricity consumption in kilowatt-hours (kWh). The kilowatt-hour rate is the amount you pay for power. These numbers are important to know because they can tell you how power efficient you are and whether your electricity provider in Texas offers rates that are higher, lower, or the same as other providers. Calculating Kilowatt Hour Rate The kilowatt-hour rate is the price of power supplied by your electric provider. To calculate your kilowatt-hour rate, divide your total power bill, minus any taxes, by your total power consumption. Once you have that number, you can use the following formula to calculate how much you pay for power. For example, if your total monthly power bill is \$327, your electricity taxes are \$27, and your monthly power consumption is 2,500 kWh, your power cost is \$0.12 per kWh. Calculating Kilowatt Hours (kWh) A watt (W) is a measure of power. To translate watts into more familiar terms, the power consumption of light bulbs is rated in watts. A 60 W incandescent light bulb consumes seven and a half times more power than an 8 W LED light bulb to produce light of equal brightness. You will often see power consumption expressed in kilowatts. (kW) because watts are relatively small units of power. One kilowatt equals 1,000 watts. The manufacturer calculates the power rating for each of your major appliances and electronics and prints that power rating on a label on the device. For example, your microwave probably has a power rating between 600 W and 800 W. A kilowatt-hour (kWh) expresses the amount of power consumed over a fixed period. The "kilowatt-hours" you see on your power bill expresses the amount of power that you consumed in a month. kWh Explained To calculate the kWh for a specific appliance, multiply the power rating (watts) of the appliance by the amount of time (hrs) you use the appliance and divide by 1000. Example: Calculating Your Electricity Costs Step 1: Find the lightbulb's kilowattage 60 watts / 1000 = .06 kilowatts Step 2: Determine your hours of use per month 90 hours of use * .06 kw = 5.4 kWh Step 3: Find your electricity rate \$0.09 * 5.4kWh = \$0.486 This 60-watt lightbulb that we used for 90 hours in a month when we were charged \$0.09/kWh cost us approximately 50 cents for the month. To calculate your home's or business's power consumption, add up the power consumption for each device. Other Ways to Find kWh There are other ways to find your power consumption: Building meter: You can read the electric meter of your home or business at the beginning and end of the month and calculate the difference. Inline power meter: You can buy an inline power meter then measures the power consumption of the devices plugged into it. These meters are useful to find the trickle power consumption of devices that use electricity even when turned off. Power bill: Your power bill will include a measure of your monthly power consumption. Discuss Your kWh Rate with Your Electricity Company in Corpus Christi Learning how to calculate your kWh rate can be rather confusing for some. That's why we've put together a simple-to-use energy rate calculator on our website. To calculate your electric bill, you'll need to figure the energy usage of each of the appliances and electronic devices in your home. In an ideal world, estimating your electricity usage would be as easy as looking at an itemized grocery receipt. You'd be able to see exactly what you spent to run the dishwasher, do the laundry, watch TV and use a month's worth of hot water. That technology is getting closer every day, but if you want to get an appliance-by-appliance breakdown right now, you'll need to do a little math or spend a little money. Calculate Energy Cost by Appliance To get a truly accurate accounting of the energy consumption of your home, you'll need to use some modern technology. But you may be able to calculate some decent estimates using some simple, old fashioned arithmetic. To estimate electricity usage of a particular appliance or electronic device, you'll need three figures: the wattage of the appliance, the average number of hours you use it per day, and the price you pay per kilowatt-hour (kWh) of electricity. Your kWh rate is printed right on your electric bill, and the average daily use is easy enough to figure. To determine the wattage of an appliance, look for a label or metal plate, which is usually in an inconspicuous place like the back or bottom of the appliance or device. If the wattage is listed, it will have a "W" at the end. If you can't find a label, check the appliance's original documentation or try searching online for its technical specs. Once you have your data, calculate the cost of use with this formula: Multiply the device's wattage by the number of hours the appliance is used per day Divide by 1000 Multiply by your kWh rate So if you have a 150 watt television that you watch five hours per day, it consumes 750 watt-hours per day (150 x 5 = 750). Divide 750 by 1000 to convert 750 watt-hours into .75 kWh (750 + 1000 = .75). If your electricity rate is 12 cents per kWh, that means it costs 9 cents per day to use your television (.75 x .12 = .09). That should account for about \$2.70 of your monthly electric bill (.09 x 30 = 2.7). It will take a lot of number crunching to do this with all the appliances, electronics and lights in your home, so if you're looking for an easier way, turn to technology. Tech Tools to Calculate Your Electric Bill Even if you know how to calculate your electric bill with just a pen and paper, you can learn a whole lot more about your energy consumption with a technological upgrade. Companies like Neurio, Curb and Sense have designed products that can connect to your home's main electrical panel and recognize the unique electrical signatures of the appliances in your home. Each product works somewhat differently, but most allow you to view detailed breakdowns and analysis of energy usage using an app or web browser. This kind of information comes at a price, however -- you should expect to pay a few hundred dollars for a system like this, and some require an electrician to install it at an additional cost. There are cheaper ways to involve technology in this process. One is to use smart plugs, which are outlet adapters that can be controlled from anywhere using a mobile app. Some smart plugs -- but not all -- feature wattage monitoring that you can use to verify the wattages of appliances throughout your home and track the energy consumption of your most frequently used devices. An even less expensive tool is an electricity usage monitor with a built-in digital display, such as the Kill-A-Watt meter. It won't give you a detailed analysis, but it will give you a quick read of the electrical draw of any appliance you plug into it, saving you time in your calculations. Some models can automatically calculate kWh totals by day, week, month or year. Assess Your Home's Energy Efficiency Not sure what to do with all this new data on your home energy use? Take a minute to enter your zip code at Home Energy Saver, an online energy assessment tool from the U.S. Department of Energy. You can use this tool to see average energy use estimates in your area for typical and energy-efficient homes, as well as generate customized energy efficiency recommendations for your home. When you sign up with an energy plan from Direct Energy, you'll get tips and tools to stay informed about your energy usage and save on your bill. Estimating your monthly cost for energy will help you decide on a plan and better budget for your utility bills. Learn how to calculate your home's energy consumption to make better choices about your energy use. The answer depends on far more than just the rate per kilowatt hour (kWh) charged by your electricity provider. how to calculate power factor from kwh and kvarh. how to calculate power cost per kwh. how to calculate power factor from kwh and kvah. how to calculate daily power consumption in kwh. how to calculate power factor using kwh and kvah. how to calculate power consumption in kwh pdf. how to calculate power cost kwh. how to calculate power factor from kwh

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