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Meter reading calculator uk

Gas meters typically record the volume of gas consumed in cubic feet (ft³) or cubic metres (m³), even if consumers are billed in kilowatt hours (kWh). The calculations used to generate gas bills are prescribed in: The Gas Regulation (Calculation of Thermal Energy) (SI 1996/439)
The Office of Gas and Electricity Markets (Ofgem) is the energy regulator and is responsible for this regulation. The following steps explain how to read the gas meter (imperial or metric) and convert this reading to kilowatt hours. However, the Office for Product Safety and Standards is only responsible for the accuracy of the gas meter, and billing complaints should first be directed to the relevant supplier. The Consumer Service Citizens Advice can help you with this and provide independent advice on energy supply. If your supplier fails to resolve the dispute, the Energy Ombudsman may investigate.
Metric or imperial
Although all new gas meters register at cubic meters, a significant number of imperial gas meters (cubic-foot registration) are still used for consumer billing. The approval process for gas meters requires that the unit of measure is clearly marked on the meter register; For example: With a metric gauge, the subunits of gas are highlighted in red, and these digits are often separated by (that is, to the right side of) a decimal point. With an imperial meter, the subunits often appear in the form of a disc as shown above. A complete revolution of the disc corresponds to the consumption of a cubic foot of gas.
Provides meter readings
The gas supplier should take regular measurements of the meter. If your provider is unable to do this for any reason, you may want to take the reading yourself and give it to the provider. Submitting your own reading can avoid the potential downside of receiving an estimated bill.
The digits on a gas meter are read from left to right, and any digit that appears in red is ignored. However, it is important that any zeros are included in the reading given to the supplier and thus in the following examples:
Calculation of gas bill
Information found on the gas bill itself will generally explain how the bill is calculated. Although the actual method used may vary slightly depending on the provider, the method should be similar to the one shown below. All conversion factors are prescribed in the Gas Regulations (Calculation of Thermal Energy) (SI 1996/439).
Step 1 Subtract the previous reading from the current reading to provide the number of devices used during the billing period.
Step 2 The conversion factor from cubic feet to cubic meters is therefore 0.0283: 1 cubic foot = 0.0283 cubic meters
100 cubic feet = 2.83 cubic meters
For imperial meter reading (in hundreds of cubic feet) is therefore multiplied by 2.83 to convert to cubic meters (if the reading of the supplier was given in cubic feet, should be multiplied by 0.0283). This step is not required for metric meters they are read directly in cubic meters.
Step 3 This number is then multiplied by the calorie value of the gas which is a measure of available heat energy. The calorie values vary and the number stated on your bill (e.g. 39.5 megajoules per cubic meter (MJ/m³)) will be an average of the gas delivered to your property (the regulations explain how this is calculated). Gas transporters are required to maintain this figure within 38 MJ/m³ to 41 MJ/m³, as numbers outside this area will cause problems with gas burning appliances.
Step 4 The figure is then multiplied by 1.02264 as prescribed in the above regulations. This corrects the volume of gas to take into account temperature and pressure (as gas expands and contracts).
Step 5 Finally, the number is converted to kWh by dividing by 3.6. Again, this factor is prescribed in the above regulations.
Step 6 The number of kWh is then multiplied by the price per kilowatt hour as described on the gas bill. You can also have a standing cost or a price for the first X number of units and a lower price for the remaining units.
Questions about reading the gas meter or complaints about invoicing should first be directed to the relevant supplier. The Consumer Service Citizens Advice can help you with this and provide independent advice on energy supply. If your supplier fails to resolve the dispute, the Energy Ombudsman may investigate. These values vary slightly by each supplier, controlled by legislation and provided by National Grid. The values specified are always rounded down to the next decimal location. The current values are British Gas 39.3, EDF 39.1, EON 39.2, ScottishPower 39.0 and SSE 39.6. Gas prices deviate from electricity prices per kwh due to the nature of the fuel source.
Calculating energy bills is as easy as taking a meter reading and multiplying by the unit rate. By using this calculator, you agree to our terms and conditions for this use of websites in its entirety. If you disagree with any part of these Terms, do not use our calculator. Although all efforts have been made to ensure accuracy, all calculations are only estimates for guidance and should not be used as a definitive indication of a probable bill to be issued by a vendor. Under no circumstances will we be liable for any loss or damage arising from the use of the calculator.
DCP 161 will be in force from April 1, 2018, and it could cost you money. Many power users c...
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The energy market is changing and the government is proposing some reforms that could potentially affect all busine ...
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for the latest energy news and advice
Unless you have a smart meter installed, keeping your energy supplier up to date with regular meter readings is the only way to make sure you're billed correctly. But energy suppliers can still make mistakes, so it helps to stay on off of off use and costs to ensure that you are only billed for the energy you use.
Between 1 January 2020 and 30 June 2020, people who switched energy suppliers for both gas and electricity with Uswitch saved an average of £387. That's where our energy cost calculator can help.
Just choose the calculator below to work out:
How much gas or electricity you've used
How much your energy is going to cost
you
your average spend per day
Gas cost calculator
Power cost calculator
Why use an energy cost calculator?
Estimated electricity bills are not ideal. If the supplier has to essentially guess how much energy you use then there is a risk that you will be overloaded or undercharged for gas and electricity. And both can have serious consequences for your personal finances: if you get overloaded, you may find yourself unnecessarily out of pocket every month. If you get undercharged, you may be hit with an unexpectedly large bill a month, to make up the lack of payments. This is why it's important to keep on top of your energy consumption and know how much to pay each month, especially if you don't have a smart meter and need to give your provider a meter reading each month.
How is estimated energy use calculated?
When you estimate your energy use, suppliers will look at the size of your house and base your usage figures on the following industry figures:
1 or 2 bedroom house
/flat - gas use of 8000kWh and a power consumption of 1800kWh
3 or 4 rooms house - gas use of 12,000 kWh and a power consumption of 2900kWh
5 + bedroom house - gas use of 17,000kWh and a power consumption of 4300kWh
What is a small house or apartment?
Your household is considered a small house or apartment if:
You use 1800kWh of electricity and 8000kWh of gas or less. There are one to two people living on your property.
You're both full-time employees and spend little time at home.
The heating is used occasionally, washing machine once a week, and you do not have a dishwasher or dryer.
What is a medium-sized property?
Your household is considered a medium house if:
You use 2900kWh of electricity and 12,000kWh of gas. There are three to four people living on your property.
You're all at work or school during the day, but at home at night.
The washing machine and heating are used a couple of times a week, and the dishwasher is used occasionally.
The TV and electrical appliances are used in the evening.
What is a large property?
Your household is considered a large house if:
You use 4300kWh of electricity and 17,000kWh of gas or more. There are four to five – or more – people who live in your house. You are all regularly at home for evenings and weekends.
The washing machine is used almost every day, the heating is on regularly, the dishwasher is used regularly, the dryer is used regularly and several TVs and electrical appliances are used regularly.
The cost of the electricity bill will also be affected by the part of the you live and the way you pay your bills. Rural properties, for example, often pay more for energy simply because it costs more to transport energy to remote locations. And paying your bills via direct debit is usually the cheapest way to pay, while prepayment meters often charge the most expensive prices.
What you need to use our energy cost calculator?
To get the best out of our energy cost calculator, it will help to have a copy of your last two energy bills at hand, as this will have all the information you need, including:
The name of the supplier
The name of the tariff
Your last two meter readings
If you want to know the cost of the gas or electricity you have used over a certain period of time – in the last fortnight , for example - just take one meter reading on the first date of the period you measure, and then another on the last date. Then just enter the two dates and two readings and press 'Calculate'
How to compare energy prices
If you want to compare energy prices, you can do so in minutes with UKPower's energy price comparison tool - it's the fastest and easiest way to switch energy suppliers. Using our free energy comparison service means that you have no trouble giving your details to each provider to compare prices. Instead, you just need to give us your details, and we compare energy tariffs from a wide range of suppliers to find the best one that suits your needs. You can switch energy suppliers in three easy steps with UKPower:
Enter your zip code in the box at the top of the page and give us some more details about your current supplier and usage. We will show you the best energy offering from a wide range of suppliers, including the Big Six and the smaller suppliers. You choose the deal that's best for you and we'll take care of the rest of the switch.
The more information you can give us, the more accurate we can quote you, it helps if you can check your latest gas and electricity bills to find out exactly how much gas and electricity you are using. If you don't have this information at hand, we can still find energy comparison rates based on the size and type of house you live in.
Our online energy comparison tool is available 24 hours a day, but if you'd rather talk to one of our energy experts and compare prices over the phone, call us on 0800 320 2000. The lines are open at the following time:
Monday to Friday 8am - 8pm
Saturday 8am - 6pm
Sunday 10am - 4pm
Once you've chosen the deal you like best, we'll let your old provider know you're leaving and inform your new provider that you'll be joining them. All you have to do then is give your old supplier a final meter reading so they can give you an accurate final bill, and let your new provider know that your opening meter reads with them. The entire switch should be completed within 21 days, which includes a cooling off period during which time you can cancel the switch without having to pay any exit fee. And the gas and electricity will be through existing pipes and cables, which means there is no need for digging or drilling on your property.
Property.

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