



trio | energy monitor

User instructions

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We'd like to thank you for buying the trio, one of our range of energy displays. This booklet explains how to set up and use your trio in a simple, clear way. If you have any problems or questions please call us. The number is at the bottom of this page, and we'll be pleased to help.

Introducing Gilbey



Hi

I'm Gilbey. I am here to learn about how you use your electricity and how I can help you to spot where you might be wasting it. This will help you to reduce your CO₂ output and save money too!

At the moment though - I am a youngster! I am just finding out just what I can do and how much I can learn from you. Over the next few months I will be growing and changing as I learn new tricks.

In the next few pages I am going to tell you how I work and how you can get the best out of me.

I hope you like me and will pass the word on to your friends!

Gilbey x

Learning what you normally use



When you are saving money I will be myself, cool and mellow!

When you have used just a little more than usual, I will start to get a little agitated and bounce up and down!

If you have used a lot more than usual I will turn red, look angry and bounce around to attract your attention!

You can then use me to find out what is different and, if necessary, do something about it.

I think it will help you to know throughout each day when you have used more electricity than you normally do. So, first I work out what you use and when. After I have done that, how I act will let you know when you are saving money, or alert you when you have spent more than usual! Think of me as your pacemaker in a race: I show how fast you are running now, how far you have gone and if you are on target to beat your time. In other words I help you to pace your electricity usage during each day letting you know that you are on target to save money.

Now I am quite clever, even if I do say so myself! I can do this not only for your meter, but also for all the appliances you have asked me to monitor. I can even do that for a group of appliances, like all your kitchen gadgets. But more of that in a moment.

Work out what you are saving



Let's start with just one appliance, like a kettle. I will keep an eye on when you use it and how much electricity it is using. After I have done this for at least a full day I can start to compare the amount of electricity your kettle has used today with what it used on previous days in the past. I do this using my 'dog bone' - just my term for the picture as it looks like my dog's bone!

The top coloured bar shows how much energy the kettle has consumed today, as do the figures at the end. The vertical line shows how much electricity you normally have used in a day by this time and in this case the bar is coloured green as you have used less than normal.

If you had boiled the kettle more often than normal, or perhaps had filled it fuller than usual, then the bar would extend beyond the line and the colour would change to amber or red depending on how much more electricity than normal the kettle had used.

You can look at this information in terms of money or CO₂ as well as electrical energy. You can also look at it for yesterday, last week or last month so that you can find out just how much using your kettle costs you. You can do this for every appliance I am monitoring. This example shows how much the kettle cost to run last week.

Adding things up



Now, I can do the same thing with lots of appliances: in fact, up to 100! That is a lot of information to look at so to, help you, I can organise the appliances into groups. All I need is you to tell me what you want.

Let's say you want to put all your kitchen appliances into one group called 'kitchen'. This is what it might look like: you can see that the freezer is using much more than normal – perhaps the door has not been shut properly – but you have used the fridge less than normal.

I can add all these appliances together and show you how much your kitchen appliances are costing and if as a group they are using more electricity than normal.

And now an even cleverer bit! Once I have learned your normal pattern of behaviour over at least one full week, you can ask me to save this pattern as your starting point or baseline. I will then compare each day's consumption against this baseline, add up the savings, and excesses, and give you a savings figure for today, this week etc. I even translate these into savings points to encourage everyone to do more. I can do this for each group and also for the overall house.



So, as you can see I am not just a pretty face!

There are many other things I can do, and these next pages will help show you what these things are.

The final thing to explain before I leave you to find your way around my pages is what to expect in this first week.

It takes me a little time to learn your habits, a full week in fact, so my installers will have set an allowance for each sensor. Now this is just an estimate but it will give you a rough working guide to start with.

When I have been working for a full week, that is seven days midnight to midnight, I will set the history bars to the electricity you consumed by this time of the day on the same day of the previous week.

At this point, if you are happy that you have had a 'normal' week, you can freeze this history as your starting point, or baseline. I will then start to work out how well you are doing against this profile, show you the differences as savings or added cost, and award you savings points! I can do this for each group; for example the kitchen or bedroom.

If you have not had a normal week, just leave me running and freeze your profile when you are happy.

So, let's get started!

Switching me on and my summary screens



Switching me on

Open the lid of my 'brain', look at the bottom of the screen towards the right-hand side and you will see a small silver button. Hold this down for a couple of seconds and you will see my lights come on. It will take a few moments for me to wake up. Don't worry, it's all you have to do, I will do the rest.

My screen also has an on/off button below the screen and I have a power save mode: I will switch my screen off if you haven't used me for 10 minutes.

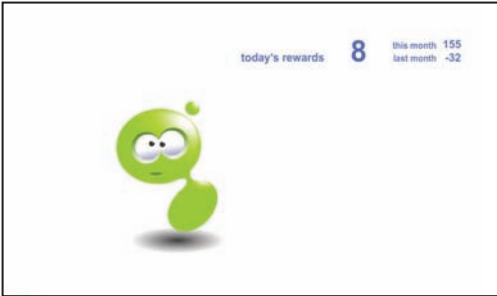
My summary screens

My first screen is my Home screen which I explain below, but first, let me tell you how to navigate around. At the bottom of the screen there is a blue bar with a number of buttons on them. These are on all the screens other than my own personal one!

My summary screens

Zzz

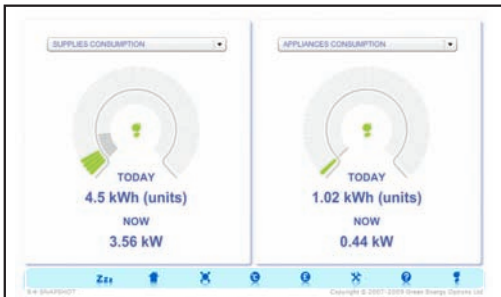
My screen



I do three things: I am a screensaver, I tell you how many reward points you have earned and I alert you to when you start to use more electricity than normal as I was telling you on page 4. If you click anywhere on my screen I will take you to the Home screen.



The home screen



I call these the channel tunnels! The inner ring shows your normal consumption for this time of the day. The outer ring of the tunnels show today's electricity consumption. If this is less than the inner ring, it will be green. It turns amber and then red for over usage. By default, I have two groups – supply (which is your distribution panel) and appliances (which is made up of all the appliances you have).

You can select any two groups to be shown here using the drop-down menu and it is these that drive my behaviour. I look at the two groups you have selected here and the combination determines my mood!

My summary screens



The group navigation screen

When you have set up some groups of your own these show on the bottom row. If you have set up more than three use the right arrow to scroll through them.



The colour of the groups show you if the group as a whole is using more or less electricity than normal, and the size of the circle shows how much electricity the group has used.

Clicking on the group will take you to the 'dog bones' for that group (I will explain this a little later).



Overall savings

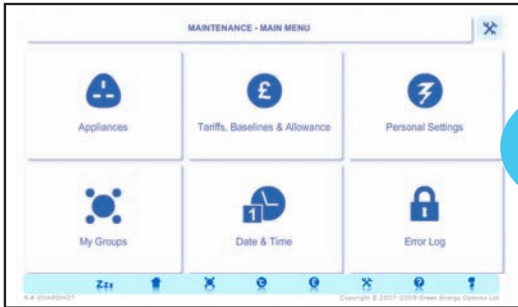
The overall savings screen shows you a history of the savings you have made since you set a baseline. If you haven't yet set a baseline I will ask you to do so. The overall savings screen works on the information from your meter supply.

My summary screens



The settings page

The settings page is password protected. The initial password is 'Energy' (and it is case sensitive). Once you have entered the password you can access the screen for the next 5 minutes. You can then access 6 different pages.



Please remember to change your password!



Alerts

When I have grown up, I will use this screen to send you alerts.

My settings pages

The first page, “**Appliances**” lets you rename your appliances, select the type of appliance (which determines which icon is used) and allocate the appliance to one or more groups.

The second page, “**Tariffs & Baselines & Allowance**” lets you set these figures. You can also set a target. If you set a target then if you have used less than this target I and my ‘traffic lights’ will be green, if you have used more than your target but less than the baseline I will be yellow, and if you have used more than the baseline I will be red. The target will also show as a line on my “**running total charts**” to give you an idea how well you are doing.

The third page is for your “**Personal settings**”. There are two things you can set here: the delay before my screen starts as a screensaver and the password for the system. This gives access to the settings page and also allows you to isolate appliances.

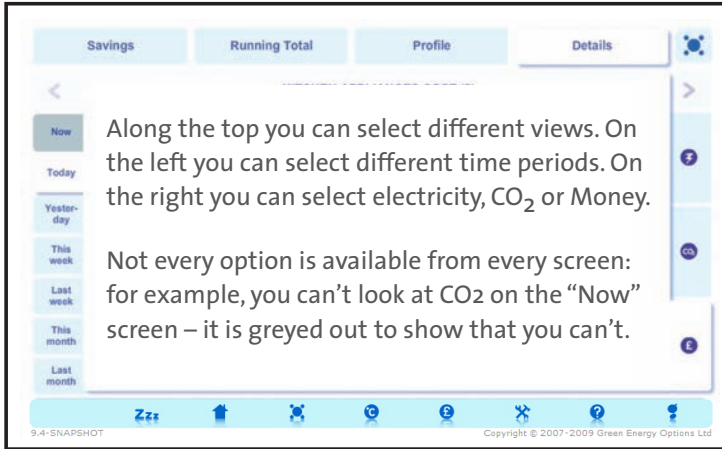
The fourth page lets you set up “**new groups**” or change the names of existing groups. You can also add and remove appliances from groups. If you select an appliance in a group you will see this pop-up:



This is a specialist tool which allows you to add, subtract or ignore the value of the appliance when calculating the group total. The red cross is used in the supply group to prevent double counting – i.e. preventing the circuit loads being added to the supply value. In all other groups the plus should be used.

The final screen is a list of errors and is used by the maintenance engineers. If there are any errors, which normally mean some data has been lost because of an interruption in power, the crossed tools sign will turn red. The system will usually continue to work as normal but you may see some missing data in the graphs. If you are worried, please call our customer services.

My sensor screens



My sensor screens are a series of views that give you information on your consumption. There are a number of views you can have of your consumption determined by the length of history, the type of view and whether you want to look at electrical units, CO₂ or money.

In the following pages I will describe the main screens for you.

You always enter this series of views by clicking on a particular group or from the Home Screen.

This will take you to the “Now” dog-bones. This shows you which appliances are on now and how much electrical load they are using.

From this screen, and only this screen, you can switch off individual appliances. I will show you how to do this on the next page.


Remote control and appliance Symbols Load

The blue buttons on the right of the dog bones show the status of each appliance. The tick means the appliance is switched on. A cross means the appliance itself is switched off. If the appliance is drawing very little current it will show a stand-by symbol as the washing machine shows in this picture.



You can turn an individual appliance on or off from the screen by pressing the button next to the appliance you want to switch off. You will be asked for the password and then the appliance is switched on or off. A red padlock shows that you have locked this appliance to prevent it from being switched off accidentally (you can do this by sliding the switch on the top of the sensor to the locked position).



The button will then show this symbol. You can switch the appliance back on by repeating these steps. You can also do this locally by sliding the switch on the top of the sensor to the locked position and then, after a couple of seconds, back to the unlocked |  on.

My appliance details screen

There is one other symbol you might see and that is the unconnected power sign. This indicates that the appliance has been switched off at the socket and therefore I am unable to communicate with it: it may continue to show a load for up to 15 minutes but I will then correct it (when I grow up it will no longer do this!).

If you select one of the left hand buttons whilst in this view you will see just how much energy each appliance has consumed over a period of time. Using the right hand buttons will show you the amount of CO₂ that has produced or how much money it has cost.

Here is a picture of a typical kitchen group for last month. Every appliance that is being monitored is labelled on the left hand-side of the dog bones. This example shows the cost of running your kitchen for the last month. This is real data – quite scary really, especially the freezer!



Consumption profile

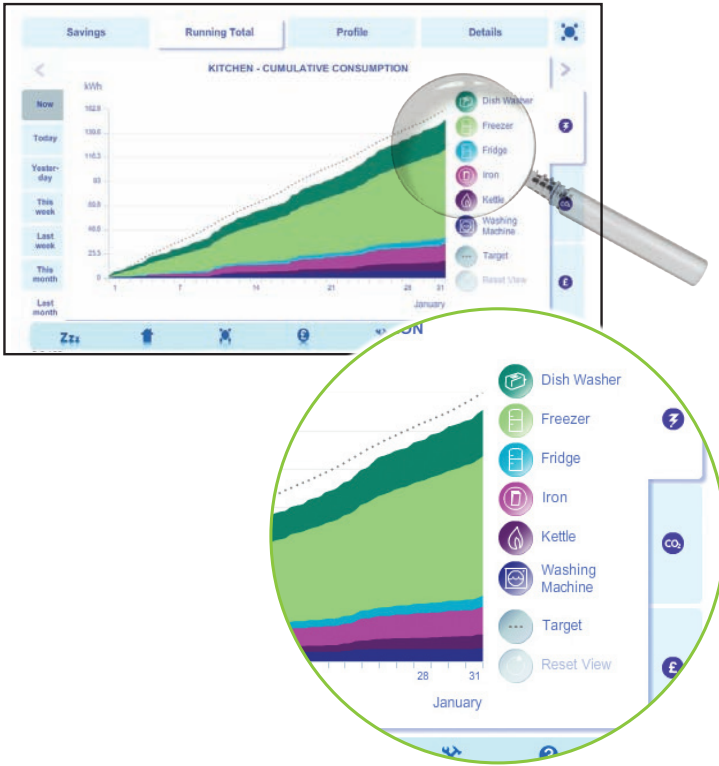
Similarly to the appliance screen, the consumption profile keeps the history so you can look at your energy use at various times of the month.



As you can see, the appliances are listed on the right hand side. Clicking on one will collapse all the others so you can see the selected appliance more clearly. Clicking on "reset view" puts it back to normal.



One little thing to remember is that the consumption profile only displays usage in kWh, just in case you try to change it to CO₂ and £.



I have designed this graph to display the collective consumption of all the appliances in the chosen group, so for this example your kitchen. All the usage for all the appliances is grouped together to give you a total energy consumption, for this reason it cannot be viewed as 'now' but can be viewed for 'today' through to 'last month.'

My cumulative consumption graph again has the history panel on the left hand side and the ability to switch between kWh, CO₂ and £ on the right.

The target line is shown by some little grey dots on the graph. It shows you how well you are meeting your selected target profile.

Group savings

	Today	Yesterday	This Week	Last Week	This Month	Last Month
Energy	0.54	-0.40	0.82	-1.9	-1.68	10.52
CO2	0.23	-0.17	0.35	-0.81	-0.72	4.52
£	0.05	-0.04	0.10	-0.19	-0.15	1.03
Rewards	2.99	-2.18	4.51	-10.42	-9.21	57.84

Savings

The final section of the bug screens is called 'Savings.' This is where you can view in one screen exactly how good or how bad you have been in saving energy for this group, hopefully it will be good!

The data is shown in Energy, CO₂, £ and Rewards and broken down into history so it can be viewed from 'today' to 'last month.' A positive figure is a saving whereas a negative one is in fact a loss!

The reward points are calculated on the amount of electricity you have saved.

Power Saving

Unfortunately my "brain" does use more energy than I would like: my designers are developing a low-power unit but it is not yet ready. On average I use about 15W – so about the same as two low energy light bulbs. You can switch me off overnight if you wish – or while you are away at work or on holiday: my bugs will save their information and when you switch me back on I will get them to update me. It will take me a few minutes to get back up to speed depending how long I have been switched off for so please be patient!

Trouble shooting and GEO product helpline

I hope I have explained how I work – and some of my quirks – in these pages. However, there are a small number of circumstances I haven't yet covered.

- Power cuts. I am afraid I will not recover automatically from a power cut – you will need to switch me on again by pressing the small silver button on the bottom of the screen towards the right-hand side. I will then do the rest.
- You might see my crossed tools symbol for the settings page turn red. This is usually because I have missed some data. I am normally able to repair this myself and the red symbol is just to let you know I have had to do it.
- What happens if I am switched off? Well my clever sensors carry on recording their consumption so when you come back from your holiday, they tell me what has been going on. It takes me a few minutes to do this, depending on how long you have been away for, but I should be able to catch up and get back to business.

Contact Information

If you have any questions please contact us by email at cservice@greenenergyoptions.co.uk or via our website at www.greenenergyoptions.co.uk. If you suspect your monitor to be faulty, please contact the GEO helpline on +44 (0) 1223 850218

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I hope you enjoy using me!

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