



Happy Energy

Making Energy Efficiency Easy



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Happy Energy is regulated by the Financial Conduct Authority



The Energy Saving, Heating and Renewable Energy Experts

We Are Happy Energy

If you are looking to save energy or upgrade your heating either at home or at work, Happy Energy can help. Happy Energy are experts in energy saving, heating and renewable energy and our staff have been responsible for helping to upgrade around 300,000 properties across Britain over the last 20 years.

Cornwall based, but with national reach, Happy Energy can offer a wide range of options to reduce your energy bills and make your home warmer and more comfortable. We can also offer a range of finance options to spread the cost of the works and help you access a range of grants and other Government financial incentives.



Happy Energy is proud to sponsor Perranporth and St Agnes Surf Life Saving Clubs

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Snug As A Bug In A Happy Rug

Save Money And Stay Warm With Happy Energy Insulation

Insulation should always be the first upgrade you look at for your home, not only to save you money on your energy bills but also to make it warmer and more comfortable. Happy Energy can offer you a range of grants to help reduce the cost of the works which in some cases may be completely free.



Loft Insulation

The recommended loft insulation depth is now 300mm or 12 inches, if your home has 4 inches or less of insulation then Happy Energy can top this up for you. We also lag all pipes and tanks in the loft to give you the peace of mind that they won't freeze this winter.



Cavity Wall Insulation

If your home was built from 1930 onwards it is likely to have a cavity wall. Up to 35% of your heat loss can be through your walls so it is very important to get these insulated. If you are not sure if your walls are already insulated give us a call and we will explain how you can find out.



Room In Roof Insulation

If your home has a room in the roof, insulating the loft may not be as simple as just rolling out fibreglass. Happy Energy has a range of products and solutions to enable your room in roof to be insulated which could substantially reduce your energy costs.

Call now to book a FREE home insulation check 0800 0 246 234

External Wall Insulation

Homes built before 1930 are likely to have walls made of solid stone or solid brick. Happy Energy can attach high efficiency insulation to the outside of your home which is then topped with a finish of your choice which can include render, dash or even brick effect.



Internal Wall Insulation

If you do not wish to insulate your walls externally and are prepared to lose a few inches of your inside walls, why not talk to Happy Energy about internal wall insulation which can be applied to a room or a whole house? Once completed the walls will be like new and can either be plastered and painted or wall papered.



Flat Roof Insulation

Flat roofs can be a major area of heat loss in a home. Ideally these should be insulated when the roof surface is replaced, but if your ceiling height permits, Happy Energy can also insulate underneath the roof, saving you the upheaval and additional cost of replacing the roof surface.



Draught Proofing

Is the wind whistling through your doors and windows? You may be surprised how much heat is being literally blown out of your house by cold draughts. Happy Energy can install draught proofing strips around doors and windows helping you to keep more of your heat in, and more of the cold out.



Hello Sunshine!

Generate Cash And Electricity With Solar PV

Solar PV is a great way to cut your energy costs and it is also still a great investment thanks to the Government's Feed-in Tariff (FIT) payments. Solar PV panels can be installed on your pitched roof, flat roof or on a frame in your garden. Even if your roof is not south facing, thanks to the high levels of sunshine we receive in the Southwest, you may be surprised how much of your own electricity you can generate and how much you could earn through the Feed-in Tariff.



Let The Sun Heat Your Hot Water

Solar thermal systems enable you to generate heat from the sun, giving you a plentiful supply of hot water in the summer and boosting your hot water even in the winter. Systems can be installed on pitched roofs, flat roofs or on frames in the garden. And now through the Government's Renewable Heat Incentive, you can also receive payments for 7 years for the heat that you generate.



Solar PV Explained

FIT
Eligible

Solar PV panels use silicone cells to convert sunshine into DC electricity, this is then fed into a box called an inverter which converts the electricity from DC to AC so it can be used in your home. If your home does not use all of the electricity at the time your solar system generates it, any excess flows back into the national grid. We can help advise you on the best ways to maximise your home's use of the free electricity.

(FiT) Feed-in Tariff Explained

The Feed-in tariff is a Government incentive which pays you money for 20 years for using a solar PV system. You get paid for all of the electricity your system generates which is known as the "Generation Tariff". You then receive an additional smaller payment known as the "Export Tariff" which is based on 50% of the energy that you generate.

If that wasn't good enough, you get to use all of the free electricity saving you the cost of buying it from your energy supplier and all FIT payments are index linked, meaning they increase each April by the rate of inflation (Retail Price Index).

Your home must have an Energy Performance Certificate (EPC) rating of at least "D" to get the full FIT rate. Happy Energy can carry out an EPC for you and if your home doesn't achieve a "D" rating we can usually help you to achieve this through insulation and other energy saving upgrades.

Solar Thermal Explained

RHI
Eligible

Solar thermal, or solar hot water as it is also known, is a system used to transfer heat from the sun into your hot water cylinder. Liquid is circulated through the panels (or tubes) which is heated by the sun, this water is then piped down to a new hot water cylinder which contains an extra coil, enabling the heat to be transferred into your hot water.

(RHI) Renewable Heat Incentive Explained

The Renewable Heat incentive is a new Government payment for people who install solar thermal systems, heat pumps and biomass boilers. The payments are deemed, which means you get paid a fixed amount based on the home's heat demand calculated through an Energy Performance Certificate (EPC). Payments are made every 3 months by Ofgem for 7 years and like the FIT are index linked, meaning they increase by the rate of Retail Price Index each April.

In order to apply for the RHI you need to have an EPC and a Green Deal Advice Report which Happy Energy can arrange for you.

Book Your Free Solar Survey Now
By Calling Happy Energy On 0800 0 246 234

Wood-Nature's Renewable Energy Source

Biomass Boilers

Biomass boilers can offer you a low carbon renewable choice for heating your home and hot water. A biomass boiler can burn logs, wood chip or wood pellets, with fuel costs often being lower than fossil fuel alternatives. They are fully controllable and can be used to directly replace a conventional boiler.

Biomass boilers are eligible for the Renewable Heat Incentive (RHI)*, giving you generous index linked payments for 7 years which could exceed the cost of installing the new boiler.

Biomass Boiler Options



Wood Pellet Boiler

The most popular option when going for biomass is a wood pellet boiler. These burn small, specially manufactured pellets which are certified to ensure that the boiler runs efficiently and smoothly. Depending on the model you install, you would typically need to refill the boiler with pellets 2-3 times a week and empty the ash no more than once a week. Alternatively you can opt for a large pellet store, enabling you to have pellets delivered by a lorry which will blow the pellets into the store giving you enough fuel for as much as a year, with the pellets then being automatically fed into the boiler.

Happy Energy can offer a range of different boilers to suit all homes and budgets. A biomass boiler tends to be larger than a traditional boiler so we usually recommend they be installed in a utility area or outbuilding. For homes without any spare space, we can also install an external boiler which is weather-proof.

Wood Pellet Stove

For small to medium sized homes, a wood pellet stove can be installed to provide heating and hot water, with the added benefit of a glass fronted feature fire and direct warmth inside the home, typically located in the lounge. Unlike a traditional wood burner, a wood pellet stove providing heat to radiators is eligible for the RHI payments. We can usually utilise an existing chimney or, where one doesn't exist, we can install a new flue.

Wood Chip And Wood Log Boilers

Wood chip and wood log boilers require more intervention than a wood pellet boiler, usually needing more frequent feeding and ash emptying. They are however ideal for customers who have their own supply of wood fuel. It is important to note that in order to receive RHI payments, customers must register as a self-supplier on the Biomass Supplier List. The wood fuel should also be properly seasoned to reduce the moisture content to within manufacturer guidelines to prevent blockages or increased maintenance costs.



*Please see page 6 for an explanation about the Renewable Heat Incentive



Call Now On 0800 0 246 234 To Book A Free Biomass Consultation

Heat Pumps



Air And Ground Source Heat Pumps

If you have a radiator or under floor heating system, or if you are building a new home, you could consider installing a heat pump. Heat pumps are ideal when you are off the mains gas network and where you have limited space for an oil tank or biomass boiler.

Heat Pumps Explained

Heat pumps are a similar technology to a fridge, but instead of generating cold air, they extract heat from the outside air, the ground or a water source and then boost the temperature up to provide heating for your home. Heat is absorbed into a fluid, this then passes through a compressor where its temperature is increased. Heat pumps could be cheaper than your current heating fuel and they are eligible for RHI payments. Heat pumps will work even when the outside air is below zero, keeping you warm whatever the weather.

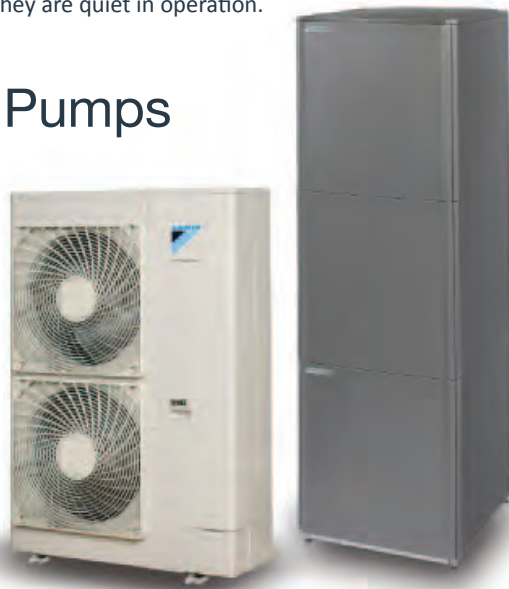
Air Source Heat Pumps

Air source heat pumps are generally cheaper than ground source heat pumps and quicker and easier to install as they take the heat directly from the air rather than the ground. The heat pump is installed outside typically a few metres away from your house and they are quiet in operation.

Ground Source Heat Pumps

Ground source heat pumps require either a borehole to be drilled or a slinky (loops of pipework buried in the ground). As the temperature of the ground is more consistent throughout the year the heat pump can run more efficiently. A ground source heat pump, whilst more expensive than an air source heat pump, benefits from higher RHI payments than an air source heat pump.

**Please see page 6 for an explanation about the Renewable Heat Incentive*



Save with an A-Rated Boiler

Happy Energy is Gas Safe and Oftec registered and can offer full boiler and control upgrades for gas, LPG and oil customers. Our qualified engineers can undertake a full range of upgrades to your existing heating system to reduce your energy bills and make your home warmer and more comfortable.

If your boiler is more than 10 years old, you should contact Happy Energy to discuss upgrading it to a modern, high efficiency A-Rated boiler. With all of your favourite boiler brands to choose from and warranties up to 10 years, you will benefit from lower energy bills and reduced maintenance costs. Better still, a modern boiler is likely to work more efficiently and be more responsive, giving you much more control over your heating and hot water.

Upgrading your gas boiler is usually a quick and simple job which can be completed in 1-2 days. You can choose to replace the boiler with the same style or switch to a more efficient combination boiler, enabling you to do away with your hot water cylinder and just heat the water as you need it.

- Brands include Worcester Bosch, Vaillant, Ideal and Baxi
- Gas, oil and LPG options
- Combination or standard boilers
- High pressure hot water upgrade options
- New radiator and towel rail options
- Finance available (subject to status)



Call now on 0800 0 246234
to book a free heating survey

Take Control Of Your Heating Bills

Heating Installation And Upgrades

If you do not currently have a heating system, Happy Energy can install a full radiator or under floor heating system. We can also undertake upgrade works such as upgrading or adding radiators to your existing system.



Heating Control Upgrades

You could save money and have a more responsive and controllable heating system by upgrading your controls. A boiler should ideally have as a minimum a digital timer which enables you to set different on and off times for different days of the week, thermostatic radiator valves on most radiators to control each room individually and a room thermostat to ensure that the boiler is completely switched off when there is no demand for heating and hot water in your home. More advanced controls could include zoning your heating into different circuits and the installation of "intelligent" heating controls that you can control from your mobile phone or internet browser.



Book Your Free Heating Survey Now On 0800 0 246 234

Boiler Servicing

Next time your gas, oil, LPG or biomass boiler needs an annual service, call Happy Energy. Our qualified Gas Safe, Oftec and HETAS engineers can service most types of boilers, we will replace any required parts and make adjustments to make sure that your boiler is working in tip top condition.

Storage Heater Upgrades

Fed up with your old storage heaters? Want to reduce your energy bills? Happy Energy can upgrade your home to modern fan assisted storage heaters to reduce your electricity bills and improve the responsiveness of the heaters. To save further money why not consider a solar PV system which we can fit with a special controller to allow us to feed energy into one or more of your storage heaters so that you can charge them during the day, extending the heat longer into the evening?

Hot Water System Upgrades

Tired of your limp lettuce shower pressure? Had one too many cold showers when the hot water runs out? Why not call happy Energy and let us upgrade your hot water system which could include a larger super insulated cylinder and the conversion to mains pressure hot water? If your hot water is heated by electricity, we can also save you money with a solar PV system to which we can install a special controller to send all of the solar electricity generated into your hot water cylinder.



Other Happy Energy Services

LED Lighting

LED bulbs and lights can use up to 90% less electricity than a halogen or incandescent bulb and half as much electricity as a traditional energy saving compact fluorescent bulb. With lifetimes of around 30,000 hours, each bulb could also last as long as 10 years if used for 8 hours a night. Happy Energy stocks a large variety of LED bulbs and if you have a particular bulb or lighting requirement, we are happy to supply this on a special order basis.

LED bulbs can be purchased through our dedicated website www.happyleds.co.uk or we can come to your home or business to carry out a free survey where you want us to supply and fit most or all of the bulbs in your property.



Ventilation - Condensation, Mould and Asthma

If your home is suffering from condensation or mould on outside walls or if you suffer from respiratory health issues such as asthma, Happy Energy can provide a range of solutions to help alleviate the symptoms. Insulation may help, but more importantly your home needs to be properly ventilated to reduce the moisture levels in the air. Happy Energy can install a range of ventilation units including whole house systems which are proven to reduce moisture levels, remove airborne small particles and reduce house dust mite levels.



Landlords And Holiday Lets

Happy Energy can offer a range of services giving landlords and holiday property owners a peace of mind one-stop-shop for all planned and responsive works.

- CP12 landlord gas safety certificate
- Plumbing and electrical call outs
- End of season works (kitchen/bathroom upgrades etc.)
- Maintenance works
- Energy Performance Certificates

Let us manage the calls from holiday guests/tenants and we will deal with any heating, plumbing, electrical or maintenance problems that may arise.



Electrical Works

Happy Energy employs fully qualified electricians and can help you with anything from a new socket through to a complete house re-wire. We also specialise in indoor and outdoor lighting installations using the latest LED technologies.



Building And Renovations

If you are looking to renovate a property or carry out any improvement works then Happy Energy can help. We can give you a one-stop-shop of building services including:

- Carpentry
- Plastering & partitions
- Kitchen and bathroom fitting
- Decking and patios
- Fascias and guttering
- Tiling
- Fencing and sheds
- Rendering and walls

