



"Reliable Family Run (Husband & Wife Formed)"

"Twice recommended by "Time Out" London in 2006"

"Finalist of the Training and Development Barking & Dagenham Business Awards 2008"

"Finalist of the "Best New Business" and "Entrepreneur of the year" Kingston Business Awards 2010"

Solar heating converts sunlight into heat. This heat is transferred to your hot water cylinder supplementing the gas energy used to fuel your current boiler. [Solar heating panels](#) are going

to become more and more popular in a very near future as
Solar water heating is good for the environment
and will help reduce your central heating and electricity bills

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How does solar water heating work - [commercial solar panels](#) for your home?

We attach solar panels to your roof and then connect them to a solar hot water cylinder, using a heat transfer system. The cylinder itself can be placed in an unobtrusive place such as an airing cupboard. The cylinder then stores the hot water that has been produced during the day by the sunlight, ready for use when you need it.

Where do the solar panels go?

A South facing roof ensures that the solar panels get the highest exposure to the sun. However, solar panels can be fitted to a south-east or south-west facing roof provided there is only a minimal of shading.

[solar power efficiency](#) is not designed for only new homes but if you already have existing homes you can still add [high efficiency solar panels](#) on to your roofs. In some properties or new homes or new commercial buildings are designed to have this system to help people save energy. They tend to extend the roof and solar roof panels to help them save cost, doesn't matter what type of buildings they are, they can still have solar hot water heating system fitted. At Advanced Professional Plumbing & Heating Services we have

experts who can advise you the process of the installation – they have experience to tell you what

[solar panels installation cost](#)

are and how they will do the work in such a way that it will work well for your property.

They can

build solar panels for both commercial and domestic (residential) offices, homes, flats and etc.

1. In the simplest panels, Sun heats water flowing in a circuit through the collector (the panel on your roof).
2. The water leaving the collector is hotter than the water entering it and carries its heat toward your hot water tank.
3. The water doesn't actually enter your tank and fill it up. Instead, it flows into a pipe on one side of the tank and out of another pipe on the other side, passing through a coil of copper pipes (the [heat exchanger](#)) inside the tank and giving up its heat on the way through.
4. You can run off hot water from the tank at any time without affecting the panel's operation. Since the panel won't make heat all the time, your tank will need another source of heating as well—usually either a gas boiler or an electric immersion heater.
5. The cold water from the heat exchanger returns to the panel to pick up more heat.
6. An electric pump (powered by your ordinary electricity supply or by a solar-electric (photovoltaic) cell on the roof) keeps the water moving through the circuit between the collector and the water tank.

Next time you get a really big [electricity](#) or gas bill, your thoughts may turn to solar panels. Wouldn't it be good if you could catch all the power you need from the Sun? Millions of people already do get their energy this way, though mostly in the form of heat rather than electricity. Solar electric panels (also called [solar cells](#) or photovoltaic cells) that convert sunlight to electricity are still not widely used; solar thermal panels, which use sunlight to produce hot water, are much more common. Even in relatively cold, northern climates, solar hot-water systems can chop significant amounts off your fuel bills. Typical systems generate anything from 10–90 percent of your hot water and pay for themselves in about 10–15 years (even sooner if you're using them for something like a swimming pool). Let's take a closer look at how they work!

Is my home suitable for solar water heating?

A good location for solar water heating (SWH) collectors is a south-facing roof which is free of shade has a tilt angle of between 20 and 50 degrees. However, even panels facing due east or west can face reasonably well.

The figure on the left shows how the performance of a solar water heating system depends on the tilt (pitch) angle of the roof as well as on the orientation. For example, the figure shows that a solar panel mounted on a south-west facing roof with a 40 degree tilt would produce 5% less output than a panel with perfect tilt and orientation. Even panels facing east or west can still produce 80% of the output of perfectly oriented panels.

Rooftop panels are the most common, but they can also be mounted at ground level. The SWH

system heats water in a cylinder, therefore it is difficult to add solar water heating to a heating system that doesn't have a hot water cylinder (e.g. a "combi" gas boiler which heats the water on demand when you turn on a hot water tap).

Roof mounted panels are usually a 'permitted development', so you won't need planning permission. Exceptions include National Parks, Areas of Outstanding Natural Beauty, conservation areas and listed buildings.

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