



Solar Water Heating

Solar water heating is one of the most cost effective renewable energy solutions, reducing your hot water heating bill by up to 70%.

Solar Heating

Solar water heating systems use the sun's energy to heat fluid in panels or tubes on your roof. This can then be used to supply heat to your general hot water system, or something more specific such as a swimming pool. Intelligent energy solutions provide solar water heating that will heat water even on a cloudy day.

When water heating is required, but sufficient energy from the sun is not available, it is usual for domestic systems to have a hot water back up system. A conventional boiler, geothermal or air source heat

pump system can then be used to add the extra heat the water requires.

Depending on specific usage, we would expect a properly specified solar water system to provide up to 70% of your hot water needs over a year.

Intelligent energy solutions install two types of solar collector, flat panel and evacuated tubes. We are happy to advise which system is most appropriate for you.

HOT TIPS

Solar energy will heat your water even on cloudy days.



Case study

Catherine Thorne felt that her gas bill was increasing rapidly but also wanted to do her bit for the environment. After consulting with Intelligent Energy Solutions she decided to have 4m² of solar flat plate panels integrated into her roof. The panels reduced her gas bill immediately by almost 20%. Catherine commented “it is so nice to know that when the sun is shining my water is being heated for free”.



Flat Plate Panels or Evacuated tube Collectors

Both flat plate and evacuated tube collectors perform very well, which one you choose is often a personal decision. Evacuated tubes have a higher average efficiency over the year. This is because there is a vacuum between the heated water and the outside air, similar to double glazed windows. However, flat plate collectors are aesthetically more appealing and can be integrated into the roof structure with a flush finish. The finished result is often described as looking like a large roof window.

HOT TIPS

Your roof doesn't have to face south, we can design a system suitable for both east and west facing roofs.



Our solar water heating systems can also be designed to heat swimming pools

“It is so nice to know that when the sun is shining my water is being heated for free”



To find out more, call **01509 891256** or visit **www.iesolutions.co.uk**