

Solar Thermal

Systems for domestic hot water and space heating

Solar thermal water heating involves the transfer of heat energy through a system specifically designed to heat and store water. People have for centuries used water heated by the sun and stored it for bathing, hand washing, cleaning clothes, heating homes and much more. The solar thermal systems used today combine the most efficient techniques for capturing the sun's heat with modern plumbing systems to produce cost effective hot water and reduce the demands for gas or electricity to heat water.

Solar combisystems are solar heating installations providing space heating as well as domestic hot water for the inhabitants of the building. The primary energy sources are solar energy as well as an auxiliary source such as biomass, gas, oil and electricity, either direct or with a heat pump. The solar contribution, i.e. the part of the heating demand met by solar energy varies from 10 percent for some systems up to 100% for others, depending on the size of the solar collector surface, the storage volume, the heat load and the climate.

Flat-plate Collectors

Flat collectors demonstrate a good price-performance ratio, as well as a broad range of mounting possibilities (on the roof, in the roof itself, or unattached).



Evacuated Tube Collectors

Evacuated tube collectors are generally mounted on the roof or façade of a building and are slightly more visible than flat plate collectors. However, these collectors provide better performance so are able to heat water to higher temperatures and are able to operate efficiently at lower temperatures.



High efficiency solar collectors

Due to the unique design and materials used in their construction these panels reach higher operating temperatures yet maintain efficiency. They have a thinner construction and are much lighter than conventional panels and even in low sunlight these panels can operate efficiently.

These panels will be available later in 2007.

Newform Energy offers a range of solar thermal products to suit a wide range of applications. The technologies we employ are robust and well proven and our systems are installed by government registered qualified installers. We specialise in integrating Solar Thermal with other renewable technologies to achieve a carbon neutral energy system.

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