

Air Source Heat Pump for Domestic Property in Abergavenny

Govilion is a small Welsh village on the outskirts of the Brecon Beacons National Park. It has stunning views over the River Usk valley and the black mountains. The owners of this property enjoy the tranquil setting and many heritage walks in the nearby area.

The Problem:

The oil heating system in this domestic property was aging, and inefficient. With oil costs rising year on year and the increasing maintenance costs the owners decided that a new cost effective 'green' solution had to be found.

Due to the proximity to the Brecon Beacons National Park planning permission was required, and a stipulation of the planning permission was that the heat pump operated in near silence.

The Solution:

WDS Green Energy installed a **Daikin ERSQ014 Air Source Heat Pump** at this domestic property. The 14kW heat pump consists of a small outdoor unit which extracts heat from the air down to temperatures as low as -20°C and an internal 'hydro-box' unit which upgrades this heat to the desired temperature and distributes it through the heating system. Together this two box air source heat pump system provides all the heating and hot water requirements of the property, with noise levels even lower than those stipulated in the planning permission.

The Benefits:

This installation is eligible for the renewable heat incentive when it begins in April of 2014. This incentive is a Government backed financial reward scheme for adopters of renewable technologies. A set tariff rate per unit of renewable heat generated is paid over a period of seven years, inflation linked. This makes air source heat pumps, and other renewable heat generating technologies, a good investment both financially and in terms of 'future proofing' your home against further energy price increases.

