



LOCATION: WARWICKSHIRE



The project

Warwick District Council working with Windhager were successful in a bid sponsored by government for funding aimed at rural homes with no access to natural gas. They were awarded a grant of £118,000 which was invested into the installation of approximately 25 biomass heating systems. The Windhager biomass boilers provide whole house heating and hot water to each individual property.

The award represented 50% of the total cost of the proposed installations and has benefited up to 25 tenants currently living in rural properties, which previously were being heated through solid fuel back boilers or electric storage heaters having no access to natural gas.

PROPERTY

25 SEMI-DETACHED HOMES

BUILT AROUND 1948

POORLY INSULATED CAVITY WALLS
(15MM)

PREVIOUS FUEL

PARTIAL COAL HEATING / ELECTRIC STORAGE
HEATERS

TECHNOLOGIES

BIOMASS	✓
HEAT EMITTERS	✓
CENTRAL HEATING SYSTEM	✓
HEATING CONTROLS	✓
COMMUNAL THERMAL STORE	✓

Specification

The VarioWIN is a practical complete solution, as well as being a pellet boiler it also includes a feed system and pellet store all under one shell. It has a 12kw output and provides all the heat and hot water for the property.

The VarioWIN works even more efficiently with low heating demand properties, making it the ideal solution for energy efficient homes.

Benefits

With an approximate heating demand of 17,000 kWh, the previous annual fuel cost for these homes was estimated to be £1,044. The wood pellet biomass boilers have reduced the annual fuel costs by around £344, a saving of 30%. Tenants previously had to top up their coal heating systems twice daily in the winter and regularly empty the ashes - a time-consuming task. The homes now have full central heating systems and are all fitted with mains-fed hot water cylinders, this means that all rooms are efficiently heated and tenants can now run hot showers.

“We are absolutely over the moon with the new biomass system. Our house is so much warmer and we no longer dread going into a cold bathroom. Our system was installed two days before Christmas and in the first month we have made a £60 saving on our energy bill. I have been recommending it to all my friends” commented A Resident from Rising Lane.