

Biomass pellet boiler + solar thermal Red 365 Compact 18 + Solflex FK250 St Boswells



Installation project

Our clients sought to combine the two most compatible renewables in their home: biomass heating and solar thermal hot water.

Border Eco Systems has fitted a 16kW domestic wood pellet boiler neatly into the utility room: the Italian manufactured Red 365 Compact 18 with our customers opting for the Easy Clean model which reduces the cleaning required by 75%. "Ease" is key to their boiler operation, it is equipped with a hand trolley to remove ash, has automatic turbulator and brazier cleaning system, all controlled by a touch screen panel.

Two south facing, flat plate solar thermal collectors of Solar Keymark conformity have been mounted on the roof of their property.

- ▶ **Boiler type** MCZ Red 365 Energy Compact Easy Clean 18, 16 kW
- ▶ **Hopper** integral to boiler, 70 kgs capacity, topped up with bagged pellets
- ▶ **Estimated fuel use** 4 tonnes per annum
- ▶ **Flue system** Nova130 twin wall stainless steel chimney system
- ▶ **Service requirements** with the Easy Clean ash compaction & evacuation system empty ash every 3 months and annual boiler service
- ▶ **Solar thermal type** Solflex FK250 flat plate collectors
- ▶ **Service requirements** annual check, replenish solar fluid at least every 3 years

A New Hot Water Cylinder now meets the annual domestic hot water demand. The cylinder is charged primarily by solar thermal, topped up by the biomass.