



SCOT HEATING COMPANY
BEST IN BIOMASS

Barnhill Estates
Farm

FISCHER
Heat for Generations

Barnhill Estates - Split Log & Wood Pellet Biomass Boilers Case Study

System:	65kW Fischer PX50 pellet & VX18 split log boilers with 2000 litre thermal storage
Fuel:	20% MC Split Logs ENPlus A1 6mm wood pellets
Delivery method:	Manual loading
Fuel replaced:	Oil
CO2 Saving:	12 tonnes
Fuel Saving:	75%



Barnhill Estates Farm

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Barnhill Estates:

A working farm of approximately 800 hectares with sheep and Belted Galloway Cattle Barnhill Estate is a busy farm situated between Stirling and Kinross. With the long hours worked by the shepherds and farm workers the requirement for heating and hot water after a long day on the farm is paramount - especially during the busy lambing and calving seasons. The previous heating system installed within the houses was old and unreliable and in need of updating therefore a biomass heating installation was decided upon. With the available timber resources on the farm and estate split log was the obvious choice as the main wood fuel to be utilised.

The Biomass Solution:

The two main houses on the farm had limited space internally for a biomass installation and so a local builder Paterson Garden Buildings Ltd was commissioned to erect a bespoke timber framed and clad extension to house the installation and provide a log storage area. A Fischer VX18 split log boiler has been installed to act as the main heat source – an additional Fischer PX50 pellet boiler has also been installed to provide back-up heating and to meet peak loads during the winter months and during lambing and calving season. A 2000 litre buffer vessel has been installed to store the heat produced by the boilers. A 600kg pellet hopper has been installed adjacent to the pellet boiler which is topped up with bagged pellets when required.

Service and Support:

Scot Heating Company provide a service and maintenance contract to Barnhill Estates Farm residents and full training has been provided in the operation and cleaning of the VX18 split log boiler.



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