



Grove Farm

Knighton, Powys

Grove Farm situated in Knighton, Powys just a stone's throw over the border from England is home to Andrew and Jackie Powell. Andrew and Jackie are cattle livestock breeders and free range chicken growers that have been in farming for many generations. They had previously invested in biomass boilers to provide renewable heat to the farm, but with the expansion of their business and increased costs of energy they were looking for a technology that provided both renewable heat and power. After extensive research the Powell's had determined that the ArborElectroGen® was the best system to do the job they required and provided the long term reliability and automation so they could focus on their core business.



This site uses the heat from 2 x ArborElectroGen 45 systems for wood drying with a Pezzolato EPG 50 chip pre-treatment system that dries and screens the woodchip. This allows the owners to buy in wet, unscreened chip at a lower cost to pre-screened, dry woodchip and use the heat to do this themselves in a fully automated process. The excess chip that is unsuitable for gasification will be used for either his existing biomass boilers or as bedding for the farm livestock - so nothing goes to waste. The electricity is used on the farm to reduce the energy costs and any surplus is exported to the grid.



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T. +44 (0)1778 590 074
info@arborhp.co.uk
www.arborhp.co.uk