

## Case Study

### Ferndale Comprehensive School (Maerdy, Rhonda Valley)

**Project type:** *New boiler installation to replace existing, comprehensive school*

**Boiler details:** *2 x Ashwell GreenTec 150kW*

**Fuel type:** *Wood Pellet*



**Site background:** *The school originally ran two coal boilers – the boilers were obsolete and so were expensive to service and difficult to maintain resulting in frequent boiler breakdowns. Their age meant that they were inefficient and high polluting. Rhondda Cynon Taff Council made the decision as part of their CO<sub>2</sub> reduction policy that the boilers should be replaced.*

**Solution:** *Ashwell installation of high efficiency wood pellet boilers, complete with automatic fuel ignition, auto de ash cleaning, fully modulated controls, integrated into existing heat distribution system with upgraded Trend Building Management System offering optimisation compensation and frost protection.*

*Wood pellet was the chosen fuel to provide a consistent, controllable fuel source - achievable due to its uniform nature. Its high calorific value meant lower storage space was required.*

**Benefits to customer:** *A reliable heating system with lower running costs - overall, a less labour intensive heating system. The new system has reduced the school's overall CO<sub>2</sub> emissions (coal replaced by biomass which is CO<sub>2</sub> neutral)*

### Highlights:

- *Obsolete boilers replaced with new biomass technology*
- *Installation was delivered within deadlines and within budget*
- *Boiler has functioned reliably since install*
- *A fully integrated control system*
- *Wood pellet to provide a consistent, controlled fuel source*
- *Less labour intensive heating system*
- *No fossil fuel back up required, so fully reliant on biomass technology*
- *Ashwell now have preferred supplier status with Rhondda Cynon Taff Council*