

Case Study

National Trust - Chirk Castle (Chirk, Nr Wrexham)

Project type : *New installation to replace oil boilers,
listed building*

Boiler details: *Ashwell GreenTec 300kW and 150kW,*

Fuel type: *Wood pellet*



Site background: *Heating system originally fuelled by a costly oil boiler with high CO₂ emissions. The replacement with biomass boilers into this Grade 1 listed castle was required to be installed without breaking into the existing building fabric.*

Solution: *Partnered with National Trust consultant, Perpetual Energy and Light Wright consultancy*

Installed two Ashwell manufactured EN303/5 compliant boilers – 300kW and 150kW. System included dual bespoke 25 tonne capacity bunkers and accumulator tanks

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 bespoke system supplied as a reference project for the National Trust. The solution lowered CO₂ emissions and resulted in a lower cost system with fuel supplied by a local pellet producer, Ongoing service and maintenance contract offering priority call out response and support.*

Highlights:

- *On time, to budget,*
- *Installed within Grade 1 listed building constraints*
- *Lowered CO₂ emissions*
- *Dual bespoke bunkers manufactured in-house*
- *Partnering with external consultants*
- *Ashwell undertaking ongoing service and maintenance contract offering priority call out response and support.*