

Lancashire Care Home Group makes the switch from LPG

Client	Dovehaven Care Homes Ltd.
Location	Marsh House Care home, Leyland
Installer	CBS Renewables, Southport
Equipment	E-COMPACT 199 Biomass Boiler

Care Home Profile

Marsh House has 33 residents and the home comprises of 23 single rooms and 5 shared rooms. The care home used LPG and its annual heating bill was £30,000 p.a.

Biomass Heating System

CBS Renewables from Southport purchased a 199kW E-COMPACT Pellet boiler, 8 tonne silo, flex auger system and 3000 litre Buffer tank from WES' north of England Distributor. The equipment was delivered to site on the 6th September 2013 and was commissioned on the 9th of October 2013.

Project management of the job was undertaken by Stuart Ward of CBS Renewables. CBS visited the boiler manufacturer in advance of the installation to plan the project. Delivery of the equipment involved craning the boiler in through the roof of the old plant room



Ainscough Crane Hire lifting 199kW E-COMPACT in through roof of Plant Room



8 tonne Fuel Store with wood cladding



by Ainscough Crane Hire. The entire installation was supervised by Stuart Ward and was completed in four weeks. WES commissioned the system on the 9th October 2013 and full hand over to the client and installer was completed.

RHI (A Compelling Financial Business Case)

Based on spending **£30,000** p.a on LPG @ 37p/litre the care home will consume 104 tonnes of pellet @ £190 per tonne = **£19,760** p.a (a saving of **£10,240**)

In addition the Care Home will receive circa **£26,000** per annum in RHI payments.

Therefore the overall saving by switching from LPG to Biomass is **£36,240 i.e Free Heating**.



Auger-Fed to 199kW E-COMPACT Pellet Boiler



Old Building converted to a Plant Room



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