

# Design and Access Statement

Northumberland National Park  
Authority  
Planning Department  
Received

20 MAR 2017

**Thorneyburn Lodge, Tarsset, Hexham, Northumberland NE48 1NA**



Prepared by The Centre for Green Energy Ltd on behalf of Mr & Mrs Davenport

17th March 2017.

## Introduction

Thorneyburn Lodge is a privately-owned home situated in Tasset, Northumberland.

With a substantial demand for heat and hot water on site the goal is to obtain permission for a biomass pellet store, housed in a metal containerised unit sheltered in the area to the rear of the property.

With rising fuel costs and the extreme importance of providing heat. Thorneyburn Lodge have taken the commendable decision to incorporate a renewable energy system in the form of a biomass boiler, fuelled by wood pellets, to provide all the heat and hot water required on site. This sustainable move will enable the property to provide a more cost effective and environmentally friendly solution to the meet there needs.

The implementation of this is to be achieved by the placing of a steel pellet container, with a green exterior and flat roof to the rear of the property, while the garage containing a biomass boiler and buffer tank to the rear/South of the property. The design and scale of the installation has been considered to be in keeping with existing buildings by replacing the current log store, shielded by existing dry stone wall and coloured to reflect the natural surrounding boundary.

## General

According to the Department of Energy and Climate Change (DECC):

*“Even though we are starting from a low level, the UK can meet the target to deliver 15% of the UK’s energy consumption from renewable sources by 2020. UK emissions in line with our carbon budgets and help keep us on track to hit our 2050 target – an 80% cut in emissions.”*

Biomass is one of the nine technologies the government is counting on to deliver these targets. Thorneyburn Lodge have opted to contribute to the reduction in carbon emissions by transferring the existing demand from their three oil boilers, to an environmentally friendly heating systems in the form of a biomass boiler.

DECC also state:

*“Our goal is to ensure that 15% of our energy demand is met from renewable sources by 2020 in the most cost effective way”*

Biomass is cheaper than oil even without Government subsidies and provides local employment from harvesting of raw materials, manufacturing of wood pellets, and

transport/distribution: all supporting the domestic economy while in parallel removing the dependency on imported and carbon intensive fossil fuels.

With the rising cost of fossil fuels in the UK it will be significant peace of mind to Thorneyburn Lodge to have adopted a renewable energy system reliant on a cost effective, domestically produced and sustainable fuel source.

Due to limitations of space in the existing building it is necessary to provide a metal pellet store to the rear of the property.

## **Access**

No change to the existing access, or parking arrangements will be required.

## **Design Principles**

The design principles for this project are as follows:

1. To provide a cost effective and environmentally sustainable replacement to the carbon intensive existing oil heating systems.
2. To maintain a scale in keeping with the existing surroundings and minimise the visual impact of the installation by optimising the benefit of existing dry stone walls.
3. To adopt a style that complements the existing property and surroundings.
4. To minimise any disruption or compromise of outlook of for the residents in the existing property.



An example of how the exterior finished pellet store will look.