



**PROPOSED DWELLING**  
**THE OLD FORGE, 26 OAKLEY WOOD ROAD, BISHOPS TACHBROOK**

**985-ES**

**ENERGY STATEMENT**

18 September 2018

**1. Introduction:**

The purpose of this statement is to explain the sustainable technology which will be incorporated onto the erection of a single storey residential dwelling to land to the rear/side of 26 Oakley Wood Road, Bishops Tachbrook, CV33 9RW.

The requirement for new development to make energy efficiency improvements is set out within Policy CC2 Planning for Renewable Energy and Low Carbon Generation of the Warwick District Local Plan

This report considers the energy requirement of the proposed accommodation subject to this planning application, and the potential options available to meet this policy requirement. It identifies measures incorporated into both the design and specification of the building to ensure the building meets the requirement.

**2. Site layout and building design:**

Whilst the proposed development has for the most part been influenced by the existing road and adjacent buildings, the design has also been considered in order to achieve sustainability through design and reduce energy use where possible.

The bedrooms will have south facing windows to make the most of passive solar gain during the day. Although the living area is facing north it has a large glazed gable to make the most of the light.

All windows and glazed doors will be in excess of 10% of the room floor area in natural daylight and opening lights to provide a minimum of 5% natural ventilation. All windows and glazed doors will have trickle vents to provide secure background ventilation.

A high level of insulation to the roof, floors and walls through the proposed construction will achieve energy efficiency by ensuring heat is retained in the building and to reduce the rate of heat transfer. The building fabric will be designed to comply, as a minimum, with the latest Part L1 ('U' values) of the Building Regulations.

Energy saving lighting will be used throughout the development.

The heating and hot water systems will be from a high efficiency programmable boiler, with thermostatic controls.



### **3. Renewable energy:**

Renewable energy options of solar panels or air source pumps will be considered together with construction methods and materials to reduce the energy demand and CO<sup>2</sup> emissions

### **4. Sustainable drainage system and water conservation:**

All storm water will be taken to soakaways.

The dwelling will meet a water efficiency standard of 110 litres/person/day and will include 5 litres/person/day for external water usage.

### **5. Building for the future:**

Building materials will be sourced locally where possible.

### **6. Conclusion**

The combination of sustainable design considerations and sustainable technologies through either renewable energy on site, or the energy demand of the development and its CO<sup>2</sup> emissions would be reduced through the initial construction methods and materials, to show policy compliant and contributes towards Warwick District's renewable energy targets.