

Application B/21/0091 - Condition 11 - Sustainability



Site:

Red House Barn, Road, PE20 3SW

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Condition to Discharge

Extracted from the decision notice this document relates to the following condition:

Prior to the commencement of development, final details of measures that aim to reduce pollution and promote renewable and low carbon energy and details relating to the timing of their implementation, shall be submitted to and approved in writing with the Local Planning Authority.

The development shall be constructed in accordance with the approved measures.

Reason: To help reduce pollution and promote renewable and low carbon energy in new development schemes and to accord with Policies 2, 3, 30 and 31 of the South East Lincolnshire

Local Plan (2011-2036) and to accord with the intentions of the National Planning Policy Framework (2019).

Sustainability

The global drive for sustainability and a shift to move to renewable and sustainable fuel sources. Unfortunately, the historic and sparsely populated areas of the United Kingdom are not always connected to the mains fuel systems or have access to affordable renewable/sustainable resources. Typically, these new, renovated or converted dwellings are reliant on Oil or LPG tanks which require regular deliveries. The deliveries and fossil fuel usage is damaging to the environment and the sustainability objectives we are trying to meet.

Proposed Heating System

Several options were discussed with the applicant with Ground Source and Air Pump heat pumps being the final two options explored. Both methods are supported by government financial schemes to assist with the installation costs.

Upon exploration of both systems the applicant wishes to install an Air Source Heat Pump.

Air Source Heat Pump (ASHP)

Air source heat pumps have a low carbon footprint (not zero) which is significantly lower than fossil fuel systems. This system can be used for water or air heating but does lack the output a fossil fuel system can provide. To combat the lower heat output the building regulation specification has included a thermal performance (U-Value) that is better than the minimum requirement.

Location of ASHP

The ASHP can generate a louder noise when working in cold environment and as such is being located in the South Easterly corner of the courtyard, South of the Parking space, subject to the location meeting the requirements of the manufacturers requirements.

Additional Documentation

To ensure full compliance the following additional documents have been included for inspection during the DISCON application to aid with the approval:

Condition 11 - RHIncomeCalculator_Air_source_heat_pump_report

Condition 11 - RHIncomeCalculator_Ground_source_heat_pump_report