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22/02/2022

To whom it may concern,

Harleston Hall – Planning statement for Application (Ref: PP-11033291)

The following Planning Statement has been produced to support a planning application for a new Biomass Plant room within an existing building involving the erection of an external flue. The new plant room will be providing heating and hot water to 2 domestic properties and an indoor pool.

EXISTING

The existing building is currently being used as a garage/storage area located to the west and at least 20m away from all other properties onsite. The new Biomass Plant room will be located inside the furthest end of the building. Location plan has been submitted with the application.

Adequate access is already present to the existing building so no changes need to be made for access to the proposed new biomass plantroom building, which will be providing renewable power to the 3 properties onsite.

PROPOSALS

Facilities

The requirement is to house a 1x Froling P4 100kW biomass boiler, with $\approx 30\text{m}^3$ of biomass storage with a logical biomass delivery access. These requirements have informed the internal space and orientation of the Plant room within the existing building.

Design

The design of the new Biomass Plant room has been decided to have minimal changes to the external appearance of the existing building. The only changes are the erection of a flue for the boiler out of the roof of the building and 2x filler tubes for filling the fuel store out of the side of the building.

Materials

Appropriate thought has been given to the materials to be used, they have been chosen taking into account maintaining industry standard, cost and minimising environmental impact on the existing agricultural aesthetic.

The following materials are to be incorporated into the project;

- Filler tubes to be painted pressed mild steel, manufactured with machine welded straight seams, approx. 3m will be visible externally,
- Flue to be 300mm outside diameter, Twin wall 316 stainless steel inner, seam welded, 25mm insulation, 304 stainless steel outer, and approx. 1.8m of flue will be visible externally.

Sustainability.

Sustainability is an inherent and critical part of this plan for Harleston Hall. The proposed new Plant room is part of a renewable energy strategy to replace fossil fuel use onsite. Based on the usage profile and the latest Carbon Trust energy conversion factors, switching from oil to biomass will save in the region of 35 tonnes of CO₂ emissions per annum.

Kind Regards,

Isaac Martin