Description	Non-technical Summary - Noise
Date	12 December 2025
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Issued to	GA Petfood Partners and Bretherton Energy Co-op
Ref No	CJA4954/23314 Rev 1

1. INTRODUCTION

GA Petfood Partners and Bretherton Energy Co-op have prepared a planning application in support of the proposed Asland Walks Energy Site.

As part of that application, Spectrum Acoustic Consultants Ltd were instructed to undertake a noise assessment of the proposed development.

The noise assessment considers the following:

- Construction and operation of the proposed wind turbine
- Construction and operation of the proposed Solar Farm and associated equipment

These aspects of the proposed development are summarised below.

2. NOISE SENSITIVE RECEPTORS

Potential noise impacts at the nearest noise sensitive receptors have been considered, as follows:

- Longland Farm (north of the proposed development)
- Glynwood House (north east of the proposed development)
- Red Bridge Farm (south of the proposed development)
- Barrowford House (south west of the proposed development)

As part of the noise assessment procedure, background noise measurements were made at each of the above residential locations, with agreement from the residents, over a period of approximately 4 weeks.

3. SUMMARY OF NOISE ASSESSMENTS

3.1 Construction noise associated with the proposed wind turbine

The construction of the proposed wind turbine is expected to be undertaken during normal working hours, as follows, subject to agreement with the Local Planning Authority (LPA). Any out of hours working would be agreed in advance with the LPA and with notice given to affected residents.

- 07:00 to 19:00 hours Monday to Friday.
- 08:00 to 13:00 hours Saturday; and,
- No work on Sunday or Bank Holidays.

In addition to the installation of the wind turbine itself, upgrading to the access road is expected in order to facilitate the delivery of the turbine.

Preliminary construction activity and equipment noise levels have been predicted using guidance from British Standard BS 5228-1:2009+A1:2014 *Code of practice for noise and vibration control on construction and open sites – Part 1: Noise* and predicted noise levels are expected to be within acceptable criteria at the nearest residential locations.

Where construction activities are local to residences to the south of the site, temporary acoustic screening will be erected to minimise noise and maintain privacy.

3.2 Operational noise associated with the proposed wind turbine

Operational noise associated with the proposed wind turbine has been assessed in accordance with The Assessment and Rating of Noise from Wind Farms, DTI, September 1996. This is the accepted methodology for assessing wind turbine noise at residential locations and involves measuring existing noise levels across a range of operational wind speeds, then ensuring that operational wind turbine noise levels fall within derived noise criteria.

The assessment shows that predicted noise levels from the wind turbine at residential locations are well within the applicable noise criteria, and as such the noise impact is expected to be low.

3.3 Construction noise associated with the proposed solar farm and associated electrical compound

The construction of the proposed solar farm and associated electrical compound (incorporating Battery Energy Storage System (BESS), Inverters, Converters and Transformers) is expected to be undertaken during normal working hours, as follows, subject to agreement with the Local Planning Authority (LPA). Any out of hours working would be agreed in advance with the LPA and with notice given to affected residents.

- 07:00 to 19:00 hours Monday to Friday.
- 08:00 to 13:00 hours Saturday; and,
- No work on Sunday or Bank Holidays.

Preliminary construction activity and equipment noise levels have been predicted using guidance from British Standard BS 5228-1:2009+A1:2014 *Code of practice for noise and vibration control on construction and open sites – Part 1: Noise*, and predicted noise levels are expected to be within acceptable criteria at the nearest residential locations.

Where construction activities are local to residences, temporary acoustic screening will be erected to minimise noise and maintain privacy.

3.4 Operational noise associated with the proposed solar farm

Although solar panels themselves do not generate noise, the electrical equipment located in the associated electrical compound (incorporating Battery Energy Storage System (BESS), Inverters, Converters and Transformers) can.

Noise modelling has therefore been undertaken, using equipment manufacturer noise data and measured background noise levels, in order to assess the impact at residential receptors in accordance with British Standard BS 4142:2014+A1:2019 *Methods for rating and assessing industrial and commercial sound*. The assessment predicts that noise levels are expected to be of low impact.