

Gwyn Humphreys

From: Horton-Taylor, Leo

Sent: 02 April 2024 09:45

To: Gwyn Humphreys

Cc: Hulbert, Cerys

Subject: P/2024/0155 - Land to the North of Bronwylfa Road, Rhostyllen

Hi Gwyn,

Hope you're well and had a good easter break. We have received feedback from our noise consultant in response to the pint raised by the EHO which is as follows:

With regards to concerns with low frequency noise, this is not expected to be an issue typically present on this kind of developments, particularly in an area already dominated by road traffic noise and in proximity to an existing substation. The primary source of noise generation from the Energy Storage projects are the cooling systems of energy storage containers and inverters, driven by the cooling fans i.e. the sound is aerodynamic and broadband in nature. Also, although Energy Storage sites include electricity infrastructure, they are not typically the primary noise source in the development.

As detailed in the noise report (section 5.1.2 Rating Penalty Assessment, Table 7):

'The noise specifications provided in this assessment ensure that the specific noise level from each HV Transformer at the closest receptor is less than 15dB, ensuring that transformer noise, including any potential 100Hz 'hum', will not be audible at the receptor locations, due to the lower sensitivity of the human ear at low frequencies and masking from the residual acoustic environment.'

I trust that this reassures you that we have considered potential low frequency in our assessment, coming to the informed conclusion, based on experience and data, that they are not predicted to create any adverse noise effect at the NSRs.

If you could pass this across to the officer for review that would be appreciated.

Thanks in advance,

Leo

Leo Horton-Taylor

Planner

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