



AQUIND Limited

AQUIND INTERCONNECTOR

Environmental Statement – Volume 3 –
Appendix 24.9 Noise and Vibration Cumulative
Effects Assessment Matrix (Stage 3 & 4)

The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations
2009 – Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

Document Ref: 6.3.24.9

PINS Ref.: EN020022

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PINS REF.: EN020022

DOCUMENT: 6.3.24.9

DATE: 14 NOVEMBER 2019

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DOCUMENT

Document	6.3.24.9 – Volume 3 – Appendix 24.9 Noise and Vibration Cumulative Effects Assessment (Stage 3 & 4)
Revision	001
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Date	29 October 2019
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Date	29 October 2019

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APPENDIX 24.9 NOISE AND VIBRATION CUMULATIVE EFFECT ASSESSMENT MATRIX (STAGE 3 & 4)

1.1. INTRODUCTION

- 1.1.1.1. This document should be read in conjunction with Chapter 29 (Cumulative Effects) of the Environmental Statement ('ES') Volume 1 (document reference 6.1.29), Chapter 24 (Noise and Vibration) of the ES Volume 1 (document reference 6.1.24) and Appendix 24.8 (Noise and Vibration Cumulative Effects Assessment (Stage 1 & 2)) of the ES Volume 3 (document reference 6.3.24.8).
- 1.1.1.2. The Cumulative Effects Assessment ('CEA') for the Proposed Development follows the recommended approach as detailed by the Planning Inspectorate ('PINS') in PINS Advice Note Seventeen (Planning Inspectorate, 2015). This document summarises the final stages of the CEA approach which include;
- Stage 3 – Collate information on the developments identified at Stage 2; and
 - Stage 4 – Review the Stage 2 project to assessed whether cumulative effects may arise.
- 1.1.1.3. Table 1 summarises the potential cumulative effects of the short-listed developments with the Proposed Development in relation to noise and vibration.

Table 1 – Stage 3 & 4 CEA Matrix for Noise and Vibration

ID	Tier	Application Reference	Application for Development and Brief Description	Assessment of Cumulative Effect	Proposed Mitigation Applicable	Residual Cumulative Effect
67	Tier 1	Land South of Lovedean Electricity Substation, Broadway Lane, Lovedean, Waterlooville 57524/001	Installation of two energy storage systems and associated infrastructure with a total capacity of 49.95MW	<p>Page 29 of the screening document references noise mitigation during the operational phase. However, the noise assessment is not publicly available at this early stage and so it is not possible to quantify any potential cumulative operational noise effects.</p> <p>However, should there be cumulative effects, they are expected to be limited to Broadway Farm Cottages and Broadway Farm House based on these being the closest receptors to the 'other development'.</p>	Criteria set for the converter station are based on the existing (measured) background noise levels. This results in a worst-case assessment which does not include any increase in background noise levels which may result from the 'other development' which, in turn, could result in higher (less onerous) criteria being derived for the converter station. As such, any mitigation is expected to be applied to the 'other development'.	Not possible to quantify until the noise assessment for the 'other development' is available.

ID	Tier	Application Reference	Application for Development and Brief Description	Assessment of Cumulative Effect	Proposed Mitigation Applicable	Residual Cumulative Effect
68	n/a	Land to the south of Old Mill Lane and east/south-east of The Haven, Denmead 19/01071/F UL *	Pivot Power considering site for battery storage plant project	A detailed assessment of cumulative operational noise effects is not possible at this stage due to the Environmental Health Officer requesting more detailed information from Pivot Power with respect to low frequency noise. However, based on the initial noise assessment, a significant noise effect is expected during the night-time at The Haven and Hillcrest due to the Pivot Power development. The converter station operational noise assessment results in a negative effect at these receptors due to the embedded scheme mitigation.	As requested by the Environmental Health Officer, an octave band noise assessment should be undertaken for the Pivot Power development with mitigation measures being implemented by Pivot Power to ensure negligible operational noise effects.	Not possible to quantify until the noise assessment for the 'other development' is finalised.

*The application for development number 68 (Land to the south of Old Mill Lane and east/south-east of The Haven, Denmead 19/01071/F3UL) was withdrawn on the 2/07/2019. As the application could be re-submitted in the future, for the purpose of the cumulative effects assessment, it has been assessed.

REFERENCES

Planning Inspectorate. (2015). Advice note seventeen: Cumulative effects assessment relevant to nationally significant infrastructure.

