

25th July 2025

Ref: 16087-005 RO

Evie Kneler Clean Earth Energy Unit 2A Bess Park Road Wadebridge PL27 6HB

Dear Evie,

## BEARS DOWN WIND FARM RE-POWERING – CHANGE FROM 5 TURBINE LAYOUT TO 4 TURBINE LAYOUT BY REMOVING T1

Clean Earth Energy (CEE) has appointed TNEI Services Limited (TNEI) to prepare a noise statement in response to a potential layout change at Bears Down Wind Farm. The planning application and noise report from TNEI was submitted for five turbines and CEE is considering removing T1, which would results in a layout reduced to four turbines hence to a lesser noise impact at receptors nearest to T1.

The repowering of Bears Down Wind Farm is currently under consideration by Cornwall Council. The revised proposal remains within the existing site boundary and aims to optimise turbine performance while reducing potential landscape and environmental impacts. This reduction in turbine numbers reflects ongoing design refinements informed by consultation and technical assessments undertaken as part of the planning process.

A lesser noise impact would results from this reduction un turbine numbers and to quantify this change in layout, noise predictions have been updated to compare the 5 x turbines layout (as predicted in TNEI report 16087-003 December 2023) with the 4 x turbines layout (T1 removed). The comparison is provided in detail for all receptors (i.e. residential properties) in the Figure A1.3a-I found in Annex 1 appended to this letter. The results indicate a decrease in predicted noise levels across the site. The most notable reductions occur as expected at receptors to the east (NAL1 and NAL2) where predicted levels have decreased by approximately 4dB.

The revised four-turbine layout results in lower predicted noise levels, offering an overall improvement in acoustic impact—particularly for receptors to the east of the site. It should be noted that this change of layout does not affect the Site Specific Noise Limits established previously. A key conclusion from the December 2023 report was "The final choice of turbine would, however, have to meet Site Specific Noise limits which should form the basis of any noise conditions." and this conclusion remain valid.

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Tel: +44(0)191 211 1400 Email: info@tneigroup.com Website: www.tneigroup.com Yours sincerely,

Moise Coulon Dip, MIOA

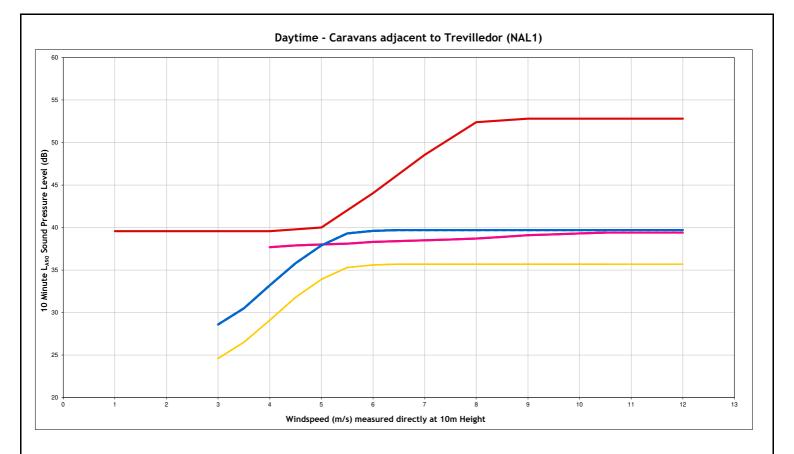
**Principal Consultant** 

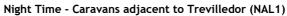
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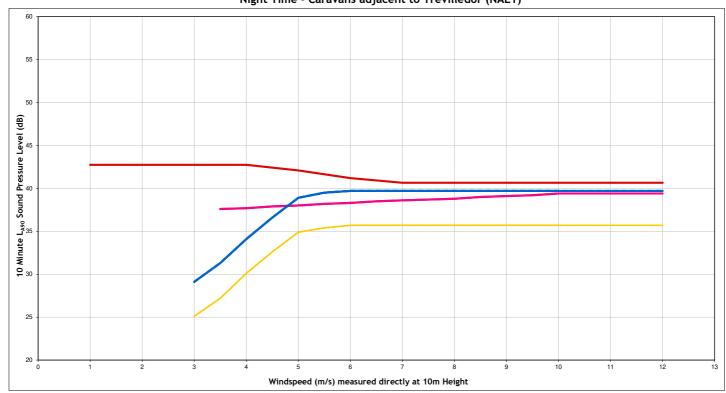
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**Enc:** Annex 1 – Noise prediction figures showing with and without T1

Annex 1 – Noise prediction figure	es showing with and	l without T1
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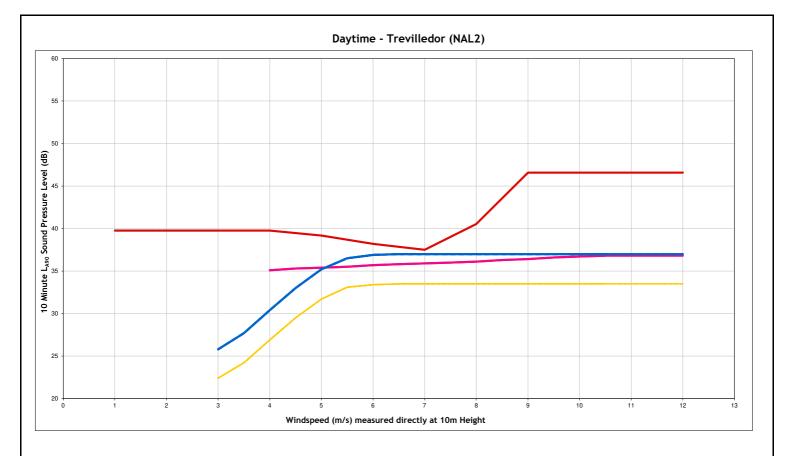


Legend: Bears Down Wind Farm Repowering Project Clean Earth Energy Title Noise Assessment - Site Specific Noise Limit NAL1 Existing Bears Down ( 16 x Bonus 600kW) [30°] Proposed Bears Down Repowering ( 5 x V136 4.5MW PO4 full mode) [30°] Figure A1.3a Figure Nu Unused(no mitigation required) NTS EΗ Proposed Bears Down Repowering without T1( 4 x V136 4.5MW PO4 full mode) [30°] Drawn -- Unused(no mitigation required) Checked MC 18/07/2025

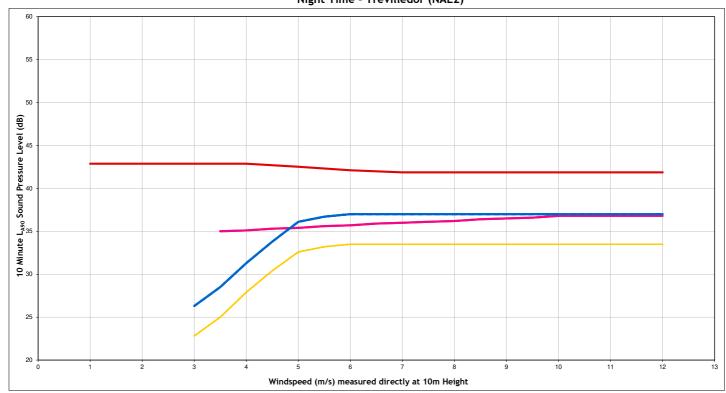


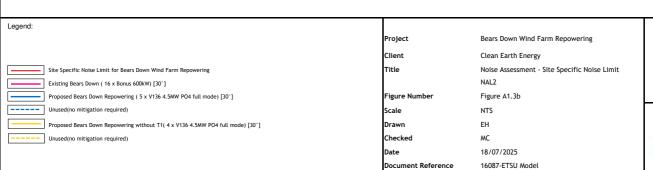
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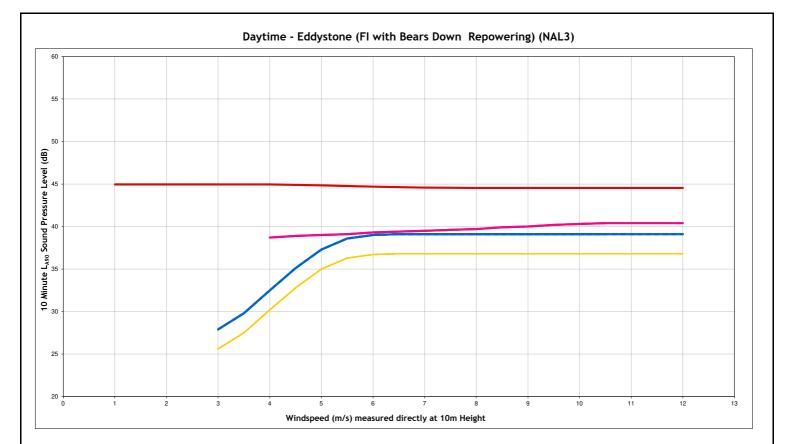




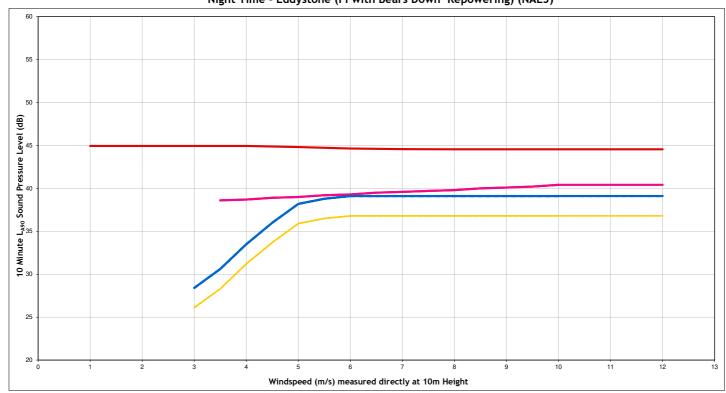


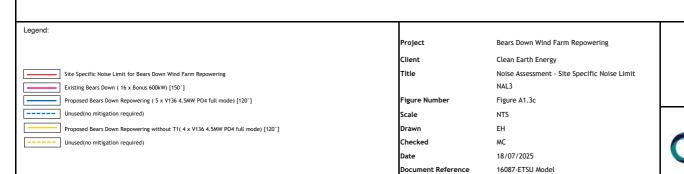


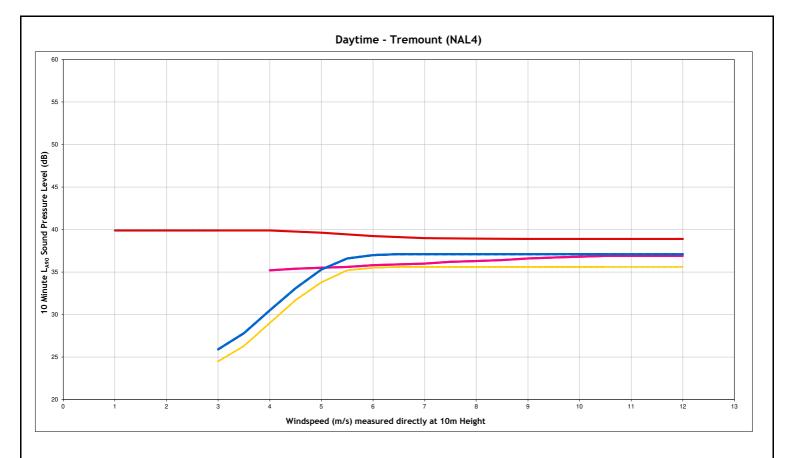




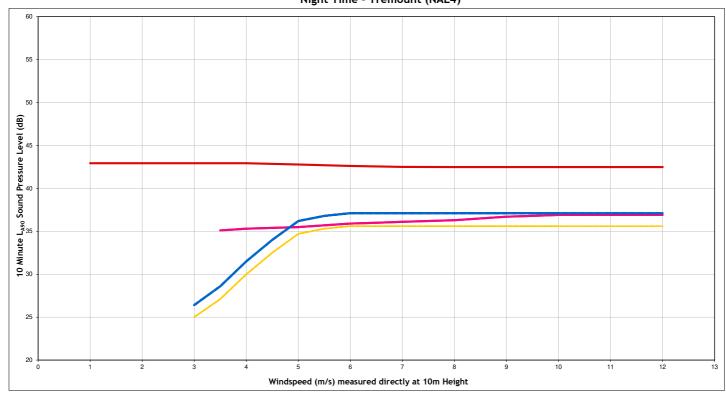


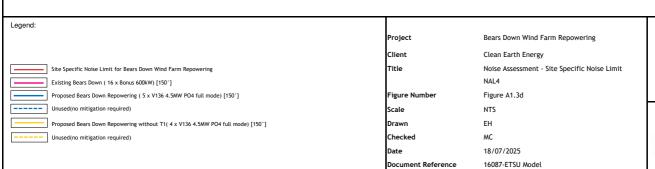




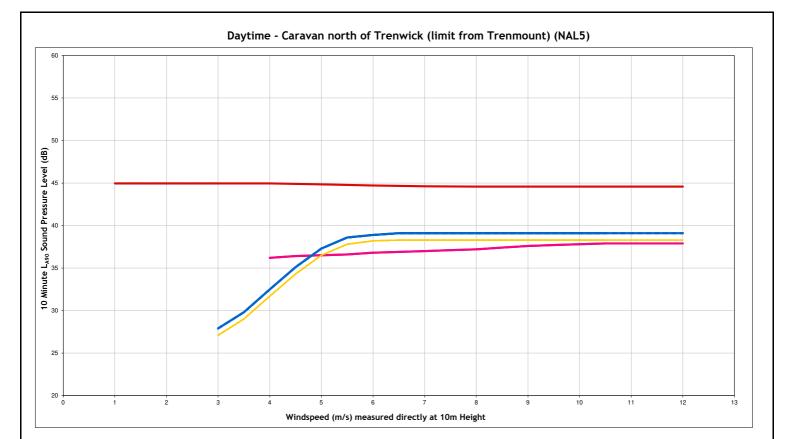




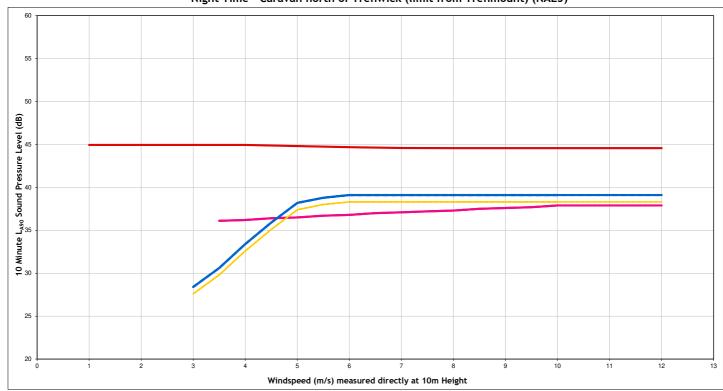


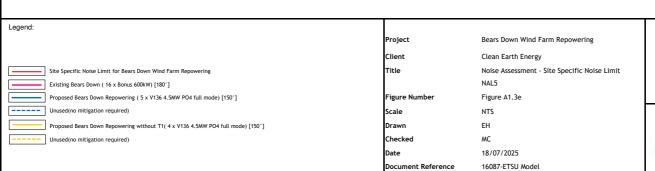




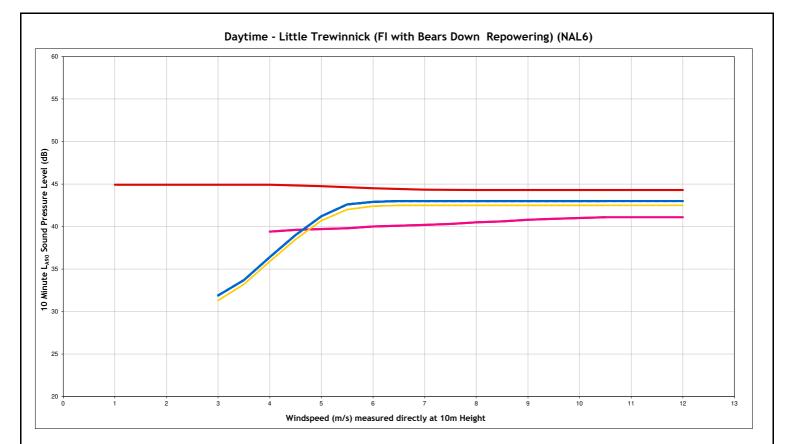


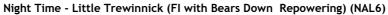


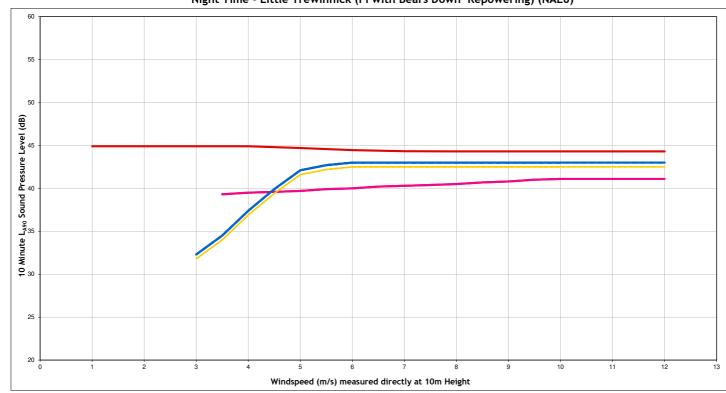


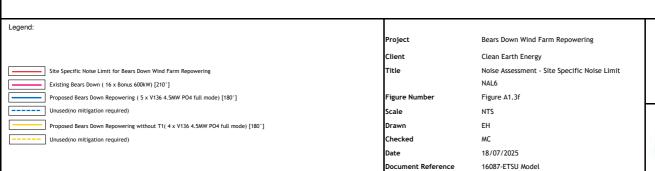




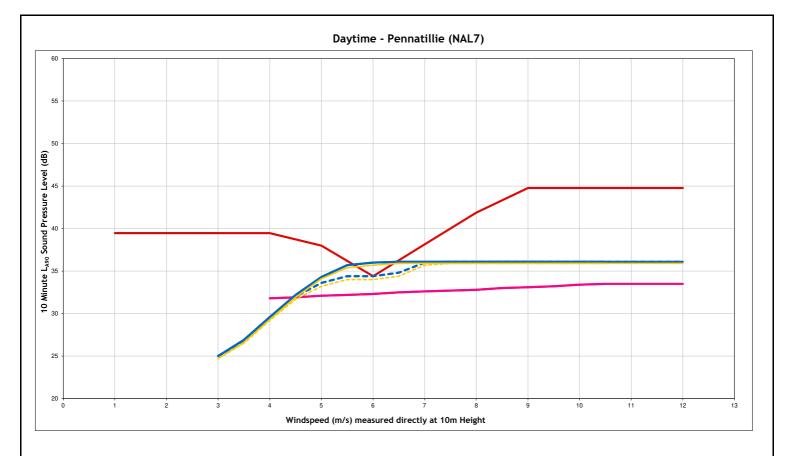




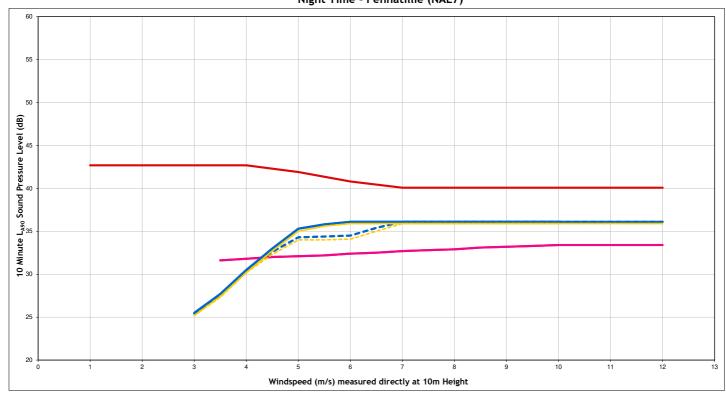


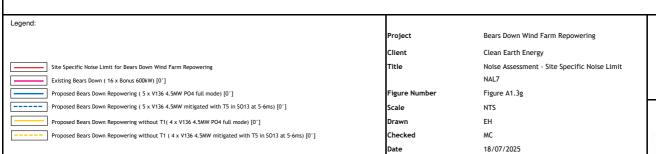








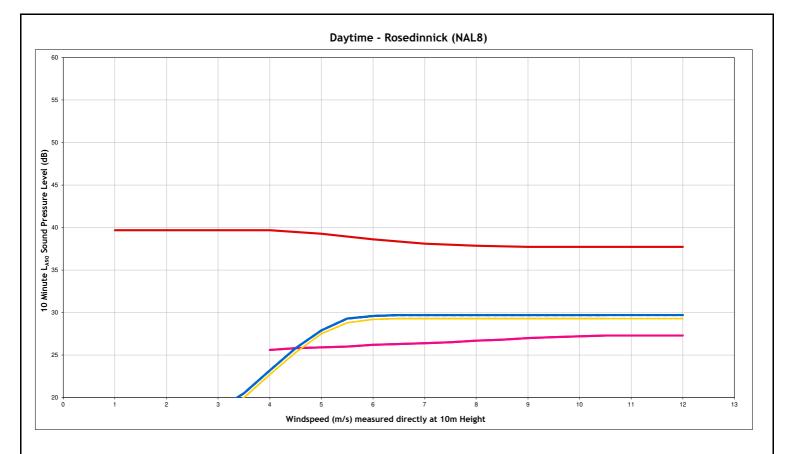


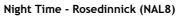


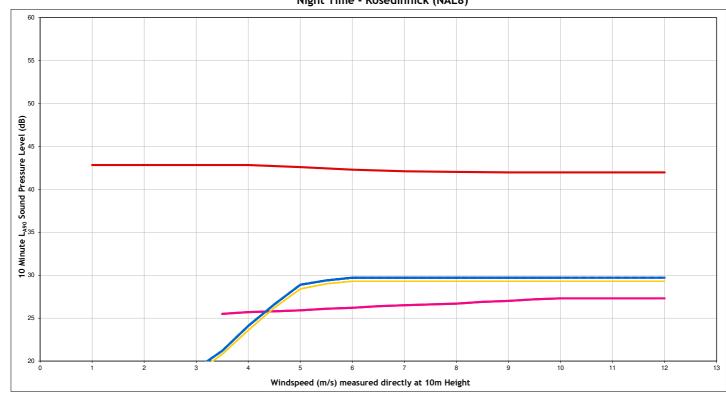


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Legend: Bears Down Wind Farm Repowering Project Clean Earth Energy Title Noise Assessment - Site Specific Noise Limit NAL8 Existing Bears Down ( 16 x Bonus 600kW) [0 $^{\circ}$ ] Proposed Bears Down Repowering ( 5 x V136 4.5MW PO4 full mode)  $[0^{\circ}]$ Figure A1.3h Figure Nur Unused(no mitigation required) Scale NTS EΗ Proposed Bears Down Repowering without T1( 4 x V136 4.5MW PO4 full mode) [0\*] Drawn - Unused(no mitigation required) Checked MC 18/07/2025



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