

MEMORANDUM

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To:	Twizel Solar Project Expert Panel	Date:	25 August 2026
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From:	Micky Yang	No. Pages:	2
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Subject:	Cumulative noise assessment with Haldon Solar Farm		

The purpose of this memorandum is to address the potential cumulative noise effects of the Twizel Solar Farm and Haldon Solar Farm. The Haldon Solar Farm has been granted consent (as of 10 August 2026¹) under the Fast-track Approvals Act 2024. Therefore, we need to consider Haldon Solar Farm's noise emission and the cumulative effects of this alongside the Twizel Solar Farm (the Project).

We prepared the acoustic assessment report *Rp 001 20240874* dated 26 March 2026. This memorandum draws from that report as required.

We have also reviewed the Haldon Solar Farm acoustic report².

The Haldon project is located in the Mackenzie District (Part Reserve 1358, Record of Title CB427/82) and is approximately 4km south-east of the nearest part of the Project. See Figure 1 overleaf showing the relative distances between the two.

The nearest receiver to the Twizel Solar Farm that might potentially be impacted by the Haldon Solar Farm is Glencairn Lodge, located off Mcaughtries Road (see Figure 1). We have assessed noise levels at this receiver only. This is because if there are no cumulative noise effects from the two solar farms at this receiver, then no other receivers would experience cumulative noise effects either.

We predict no change to the operational noise effects due to both solar farms operating simultaneously. We predict that the Haldon Solar Farm would generate very low noise levels (below audibility) at Glencairn Lodge. This means there would be no cumulative operational noise effects at any other receivers relevant to the Project.

We predict no significant cumulative construction noise effects. During construction of the Haldon Solar Farm, piling noise may be up to 40 dB L_{Aeq} at Glencairn Lodge. During piling for the Twizel Solar Farm, we predict noise levels up to 45 dB L_{Aeq} at Glencairn Lodge. If both projects were piling at their closest positions to the Glencairn Lodge and piling at the exact same time (which is unlikely), then noise levels may be up to 45 – 50 dB L_{Aeq} . This could be momentarily just perceptibly louder (compared to one project piling at one time), but still readily complies with the daytime noise limit of 75 dB L_{Aeq} .

¹ <https://www.fasttrack.govt.nz/projects/haldon-solar/the-decision>

² Marshall Day Acoustics report Lt 001 r03 20250640 dated 31 July 2025

Figure 1: Relative location of Twizel Solar Farm and Haldon Solar Farm

