

## Results of the MREH post-construction noise assessment

Greenpoint Energy (GPE) has completed the post-construction noise assessment for the Melbourne Renewable Energy Hub (MREH), as required under the Project's planning approval.

The assessment was undertaken by Sonus Pty Ltd, an independent acoustic engineering consultancy, to verify compliance with the operational noise limits applying to the Project. The assessment report has been provided to the Environment Protection Authority (EPA), the Department of Transport and Planning (DTP), and Melton City Council.

The assessment focused on the closest dwelling to the facility in Hillside and examined noise levels during representative worst-case operating conditions, including periods when the battery cooling fans were operating at their highest speeds and meteorological conditions were most likely to result in facility noise being audible.

The assessment found that the Project:

- Complies with the applicable daytime and evening noise limits at the closest dwelling;
- Does not generate tonal noise emissions; and
- Recorded a night-time noise level 2 dB(A) above the applicable 39 dB(A) criterion during worst-case operating conditions.

For context, a change of approximately 3 dB(A) is generally considered the minimum difference in noise level perceptible to most people.

The monitoring program experienced delays due to a fault with noise monitoring equipment installed at a dwelling in Plumpton. In addition, monitoring periods were affected by higher levels of background noise from other sources in the area, including freeway traffic and aircraft movements, requiring an extended monitoring period to obtain sufficient valid data.

As a result, the current assessment report is based on measured noise levels at the Hillside monitoring location. Additional monitoring data from the Plumpton location is currently being analysed, and the report will be updated once that assessment is complete.

GPE is also working with its acoustic consultant to evaluate predicted noise levels, including low-frequency noise down to 12.5 Hz, at nearby residences.

GPE takes its compliance obligations seriously and remains committed to understanding operational impacts, implementing any necessary mitigation measures, and keeping stakeholders informed.

A summary of the assessment findings is provided below.

If you would like to know more about the about the post construction noise monitoring program or receive a copy of the full assessment report, please contact us on 1800 161 249 or via our website at <https://engage.greenpointenergy.com.au/contactus>

# Melbourne Renewable Energy Hub

## Post Construction Noise Assessment Summary

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### Purpose of this summary

The Melbourne Renewable Energy Hub (MREH) is a renewable energy facility located at 66 & 77 Victoria Road and 77–347 Holden Road, Plumpton. Its Battery Energy Storage System (**BESS**) has recently commenced operating.

The facility's planning approval (the Incorporated Document under the Melton Planning Scheme, April 2021) requires that within one month of the facility commencing operation, a suitably qualified acoustic engineer must assess its noise against the applicable Victorian Policy (**SEPP N-1**), and that the assessment be made available to the public.

Sonus Pty Ltd, an independent acoustic engineering firm, was engaged by Equis to carry out this assessment. This document summarises the assessment and its results to date in plain English. It is provided for convenience only. In the event of any difference or misinterpretation between this summary and the full technical report, the full report will prevail.

**Note:** monitoring near a Plumpton residence is being repeated following an equipment failure. The results for a Hillside residence presented in this summary are complete. The report will be updated with the Plumpton residence results when they are available.

## How the assessment was carried out

Noise monitors were installed near the two closest homes to the facility — a Plumpton residence to the north-east and a Hillside residence to the south. The monitors recorded noise levels continuously from 15 April to 20 May 2026.

The assessment was designed to capture the facility's noise under worst-case conditions, and to make sure the results reflect the facility itself rather than other noise in the area:

- The measurements were taken with precision Class 1 sound level meters, calibrated by a NATA-certified laboratory and checked in the field before and after the monitoring, with no significant drift observed.
- The facility's operating data (cooling fan speeds) were cross-referenced with Bureau of Meteorology weather data to find the periods when the wind was blowing from the facility to the monitors, the batteries were working and the cooling fans were operated at the highest speeds. These are the conditions under which the facility is likely to be loudest at those homes.
- Of those periods, the three with the highest fan speeds in downwind conditions were selected for assessment in each of the day, evening and night periods, as the SEPP-N1 requires.
- Additional monitors were placed between the facility and each home, so that any period where the noise at the home was higher than the noise closer to the facility could be excluded, as that noise could not have come from the facility.
- Noise from insects, aircraft and truck exhaust brakes was identified and removed from the data.
- Background noise (the noise of the area without the facility) was subtracted from the measurements, so the results represent the facility's contribution.

The noise monitoring locations are shown in figure 1 below.



Figure 1 Noise Monitoring Locations



### The noise limits

SEPP N-1 sets limits that become stricter later in the day, reflecting the greater sensitivity of the night period. The limits determined for the Hillside residence are:

| Period  | Times                                                          | Noise limit |
|---------|----------------------------------------------------------------|-------------|
| Day     | Mon–Fri 7am–6pm; Sat 7am–1pm                                   | 48 dB(A)    |
| Evening | Mon–Fri 6pm–10pm; Sat 1pm–10pm; Sun & public holidays 7am–10pm | 44 dB(A)    |
| Night   | Every day, 10pm–7am                                            | 39 dB(A)    |

### Results at Hillside Residence

The assessed noise level for each period is the average of the three worst measured periods, adjusted as the standard requires:

| Period  | Facility Noise Level | Limit    | Outcome                                   |
|---------|----------------------|----------|-------------------------------------------|
| Day     | 41 dB(A)             | 48 dB(A) | <b>Complies</b> — 7 dB(A) below the limit |
| Evening | 44 dB(A)             | 44 dB(A) | <b>Complies</b> — meets the limit         |
| Night   | 41 dB(A)             | 39 dB(A) | <b>Above the limit</b> by 2 dB(A)         |

The facility satisfied the day criterion by a comfortable margin and satisfied the evening criterion, during the highest fan speed conditions encountered in downwind conditions.

The night result of 41 dB(A) exceeds the 39 dB(A) criterion by 2 dB(A). The exceedance was measured during the downwind periods with highest fan speeds of a five-week campaign, rather than under typical conditions.

The assessment also checked the character of the facility's noise. The analysis identified no tonality — that is, no distinct hum or whine — in the noise from the facility, and no adjustment for tonality or intermittency was warranted.

### Completing the assessment

The monitoring at the Plumpton residence is being repeated following the equipment failure, and the assessment will be updated with that data when it is available.

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*This summary was prepared to accompany the draft Post-Construction Noise Assessment, Melbourne Renewable Energy Hub (Sonus Pty Ltd, ref. S8936C2, July 2026). The full report contains the complete methodology, data and analysis, and will be updated on completion of the outstanding monitoring and analysis. In the event of any difference or misinterpretation between this summary and the full report, the full report will prevail.*