

## Sound level report Energy Ball V200

The sound pressure level of the Energy Ball V200 was measured by Lichtveld Buis & Partners BV company, commissioned by Home Energy. The results show that, as expected, the sound pressure level of the Energy Ball is extremely low.

Measurements were performed at different standardized wind speeds. Only at wind speeds higher than 9 m/s the sound level turned of the Energy Ball V200 turned out to be higher than the background sound level generated by the wind.

Standardized wind speeds [m/s]	Background sound pressure levels L <sub>n,k</sub> [dB(A)]	Sound pressure level Energy Ball V200 at 50 m distance [dB(A)]
5	42.1	37
6	42.7	39
7	43.5	42
8	44.4	44
9	45.4	47

The next page shows a summary of the official sound report.

## Report summary

Nieuwegein, November 5<sup>th</sup> 2009

Number : V068304aaA0.md

Project : Sound emission V200

Location : Biervliet

This is a summary of report R068304aaA0.md d.d. November 5<sup>th</sup> 2009. Measurements were made according to 'Wind turbine generator systems – part 11' IEC61400-11, December 2002.

Turbine: Wind Energy Ball V200

Rotor diameter: 1.98 m

Hub height: 14 m (tube mast)

Rated power: 2250 W

Date of measurement: October 16<sup>th</sup> 2009

Location: Braakmanweg 1, Biervliet, the Netherlands

Sound pressure level at 50 m distance (with no reflecting or attenuating objects)

Wind class	Sound pressure level at 50 m [dB(A)]
Wind 5 m/s	37
Wind 6 m/s	39
Wind 7 m/s	42
Wind 8 m/s	44
Wind 9 m/s	47
Wind 10 m/s	50

Lichtveld Buis & Partners BV



ir. M.T. Dijkstra

Lichtveld Buis & Partners BV

**Raadgevende ingenieurs**

geluidbeheersing, bouwfysica, akoestiek, brandveiligheid

arbo, milieu en ruimtelijke ordening

Kelvinbaan 40 Nieuwegein

Postbus 1475 3430 BL Nieuwegein

T: +31 (0)30 231 13 77 F: +31 (0)30 234 17 54

E: lbp@lbp.nl I: www.lbp.nl