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Your ref. : -
Our ref. : PE/GL 07-8238

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Subject : Report ECN-X--07-100 Noise measurements of the Wind EnergyBall V100

Dear Mr. van Wijck,

This letter gives a summary of the report ECN-X--07-100

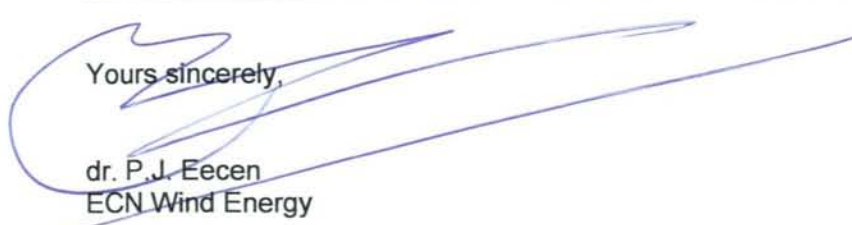
Acoustic measurements on the Wind EnergyBall V100 have been performed August 21st 2007. Since it was known that the turbine is very quiet, the measurements were made during evening hours in order to minimise the effects of the background noise. During the measurements, the subjective experience is that the turbine cannot be distinguished from the background noise and also the acoustic measurements show that the turbine noise does not exceed the background noise. The turbine is indeed very quiet.

Since the turbine noise measurements did not exceed the background noise measurements, the apparent sound power levels could not be determined according IEC61400-11. The background noise levels that are measured during the test are presented in Table 1 as function of standardised wind speed.

Table 1. Measured background sound pressure levels for standardised wind speeds from 4 m/s to 9 m/s. The sound pressure levels are obtained from the 10-second averaged data.

Standardised wind speed Vk [m/s] at 10m height	Background sound pressure levels L _{n,k} [dB(A)]
4	41.6
5	42.1
6	42.7
7	43.5
8	44.4
9	45.4

Yours sincerely,



dr. P.J. Eecen
ECN Wind Energy

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