

**Boutin, Anne-Lyne (BAPE)**

Rivière-du-Loup

6211-09-011

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**Envoyé:** 10 juillet 2006 09:49  
**À:** Boutin, Anne-Lyne (BAPE)  
**Objet:** Référence - étude sur le bruit

Bonjour Mme Boutin,

En réponse à la demande exprimée par le commissaire Béland suite à la présentation du mémoire de la MRC de Rivière-du-Loup, je vous envoie le lien internet où vous pourrez trouver l'étude sur les nuisances sonores causées par les éoliennes à laquelle nous faisons référence dans notre mémoire (Noise annoyance from wind turbine, a review). Nous repreneons particulièrement un extrait de la conclusion de cette étude (p. 22) à savoir que le bruit d'une éolienne, en raison de ses caractéristiques rythmiques et de fréquence, peut devenir une nuisance à partir d'un niveau sonore inférieur aux autres sources de bruit courantes, tel le trafic.

Vous trouverez donc cette étude à l'adresse suivante : <http://www.naturvardsverket.se/bokhandeln/pdf/620-5308-6.pdf>

Nicolas Gagnon  
MRC de Rivière-du-Loup

# Noise annoyance from wind turbines - a review

Eja Pedersen, Högskolan i Halmstad

## 4. Conclusions

Noise from wind turbines is not at all as well studied as for instance noise from road traffic. As the number of studies is low no general conclusions could be drawn. However, some indications will be listed here.

The reviewed studies above indicate that annoyance from wind turbine noise

- Is to a degree correlated to noise exposure.
- Occurs to a higher degree at low noise levels than noise annoyance from other sources of community noise such as traffic.
- Is influenced by the turbines' visual impact on the landscape.

Wind turbine noise

- Does not directly cause any physical health problems. There is not enough data to conclude if wind turbine noise could induce sleep disturbance or stress-related symptoms.
- Is, due to its characteristics, not easily masked by background noise.
- Is particularly poorly masked by background noise at certain topographical conditions.

Regulations on noise from wind turbines

- Are based on different principles leading to a heterogeneous legislation in Europe.

No conclusions on wind turbine noise in recreational areas could be drawn as no studies on the subject have been found. Other sources of noise studied as aircraft over flights indicate that noise levels tolerated in wilderness areas compared to residential areas are lower, but there is no evidence that this could be transferred to wind turbine noise.

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*Acknowledgement:*

*I gratefully thank Kerstin Persson Wåge for valuable contribution to this review.*

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