



An efficient energy supply is one of the most significant cornerstones of a smoothly functioning society. In creating efficient and sustainable long-term energy solutions, a number of environmental factors influence how well a successful, competitive energy supplier will deliver to private customers as well as to society as a whole.

ÅF-Ingemansson has more than 30 years' experience working with noise and vibration from energy suppliers. As the leading European consultancy in the field of noise and vibration, we have unparalleled competence within this area. We serve as advisers to major manufacturers, energy suppliers and public authorities. Our clients turn to us for advice as experts in noise and vibration in matters concerning legislation, regulations and tighter noise restrictions as well as operating and expanding energy installations.

Our role in projects may include:

- Obtaining appropriate permits regarding noise and vibration
- Planning of installations which fulfill requirements for noise and vibrations
- Noise and vibration specifications for purchasing of machinery, pipe work and installations
- Evaluation of suppliers' bids
- Securing construction purchasing
- Conducting measurements to check conformance to specifications in conjunction with performance tests
- Noise measurements according to monitoring plan
- Process control – reduced vibration means a reliable, stable and safe process
- Creating durable energy systems – reduced service to components with less vibration
- Extending equipment life – e.g. pipe vibrations

ÅF-Ingemansson can help you with questions including:

- Are the requirements reasonable, and what are their implications?
- Should action be taken at an installation, or should the relevant licensing authority be consulted?
- Is a particular solution efficient and long-lasting?
- How much will it cost and how time-intensive is it?

References

Licensing and environmental management

Rosenlundsverket plant, Gothenburg, Sweden
Energy 2005, Skoghall, Sweden
Lillesjö thermal power plant, Uddevalla, Sweden
Lövstaviken wind power facility, Falkenberg, Sweden
Solid waste incinerator, Torsvik, Jönköping, Sweden
Vänern Wind Park, Sweden
Fortum Värme, Värtaverken, Sweden
General advice on noise from wind turbines, for the Swedish Energy Industry Research Organization, Elforsk
Klasården wind power facility, Näsudden, Gotland, Sweden
Wind power facility, Fladengrund, Sweden

Environmental, noise and vibration consulting – evaluation

Heat pump, Värmegatan 5, Biskopsgården, Gothenburg, Sweden
Lindome transformer substation. Kontiskan 1
Ringhals R1 nuclear power plant
Hedenverket power plant, Karlstad, Sweden
Hydro Polymers, Sweden
Eskilstuna Energi & Miljö, Sweden
CHP Alstom Power – SAPPi Paper Mill, Blackburn, Great Britain

Performance evaluations in energy installations

Sävenäsverket power plant, Gothenburg, Sweden
Korstaverket plant varm.nu, Sundsvall, Sweden
Rya thermal power plant, Gothenburg, Sweden
Karlstad Energi Hedenverket plant, Sweden
50 MW oil-fired boilers at Norrenergi Solna, Sweden

