

## Noise reduction from ENERGY Products™

Offshore equipment can be noisy in operation. Noise can reduce the quality of the working environment and may put employee health at risk. Hazard areas may be so loud that personnel have limited access time. All these restrictions, including especially the health risk, can be mitigated using ENERGY SonicBarrier®, a simple and flexible noise-mitigation system that works for both temporary and permanent solutions.

## ENERGY SonicBarrier® - Temporary

Temporary noise insulation system consists of acoustic mats of various sizes. The mats are easily installed and work like a wall that absorbs the noise from machinery units. The mats can be displaced and adjusted according to pipes and equipment, and cut to size. They open easily for evacuation. The ENERGY SonicBarrier® system won Statoil's HSE award for the Statfjord Late Life project in Q4 2009. Acoustic attenuation properties are extraordinarily good and work well in a fully enclosed habitat, or as stand-alone muffler walls, where temporary noise mitigation is required.



## ENERGY SonicBarrier® - Permanent

The system is a permanent, modular noise-mitigation system consisting of flexible noise-abatement elements. The elements attach to a guide rail on which they can be angled, allowing personnel to walk through. ENERGY SonicBarrier® elements will flex in any direction and remain intact in case of explosion. The system can also be pushed aside for storage, or moved to other areas if required. The solution relies on Velcro-fasteners. Element thickness and panel size are adjustable to tackle whatever noise abatement challenges prevail in the space in question.



ENERGY SonicBarrier® offers a win-win situation for all concerned with high HSE benefits to everyone.

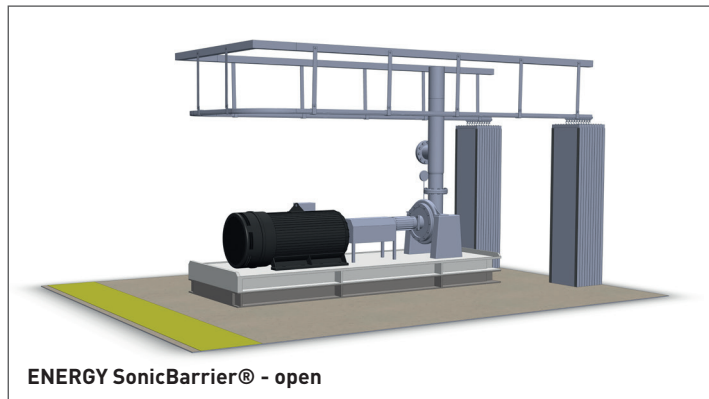
- Effective noise insulation means upgraded work environment
- Lower noise means longer permitted exposure times
- Lower noise equates to improved safety, efficiency and wellbeing at the workplace
- Lower noise allows personnel to concentrate on the work in hand and communicate effectively
- Healthy workforce with less risk of absence.

### Economic benefits

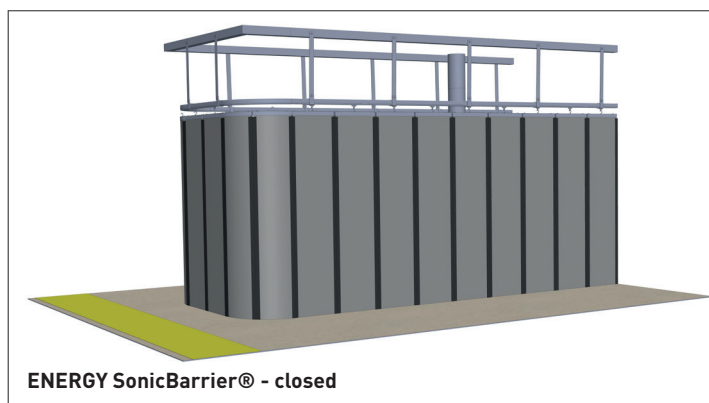
- No time limits on work exposure
- Avoids organization of alternative work between exposures
- Productivity increases
- Reduce the use of bed space

### Acoustic Research Laboratory

- Solutions tested according to new acoustic verification standards
- Vital tool in product development and results verification
- Measurements and verification entrusted to external specialists
- Customers and partners are invited to check out the facilities for project-specific testing



ENERGY SonicBarrier® - open



ENERGY SonicBarrier® - closed