

Sandia National Laboratories Wind and Water

Sandia National Laboratories helps bridge the gap between research institutions and industry by helping to develop technologies that deliver cost-effective and reliable energy while also committing to the importance of environmental stewardship.

Sandia's Wind program is identifying materials and coating mitigation options for pre- and post- manufactured blades, with a focus on rotors. Leveraging technology developed from other applications, this technique layers specialized coatings to mitigate radar cross sections and reduce radar interference.

As a primary element of Sandia's Water program, researchers focus on the development and testing of coatings, composites and molding processes. This work develops and refines a variety of antimicrobial and anticorrosion materials, which seeks to protect devices from maladies such as composite fatigue and biofouling, while also assessing and evaluating the materials to ensure their efficacy and reliability.



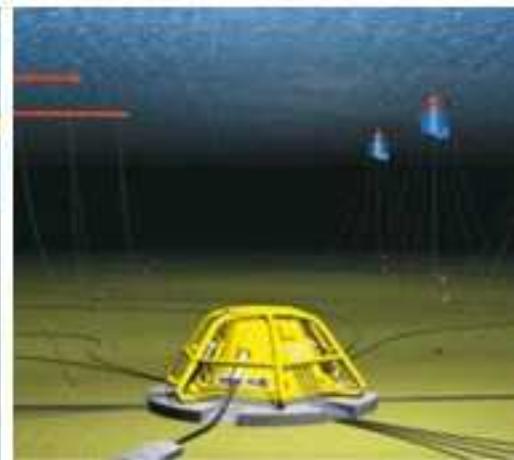
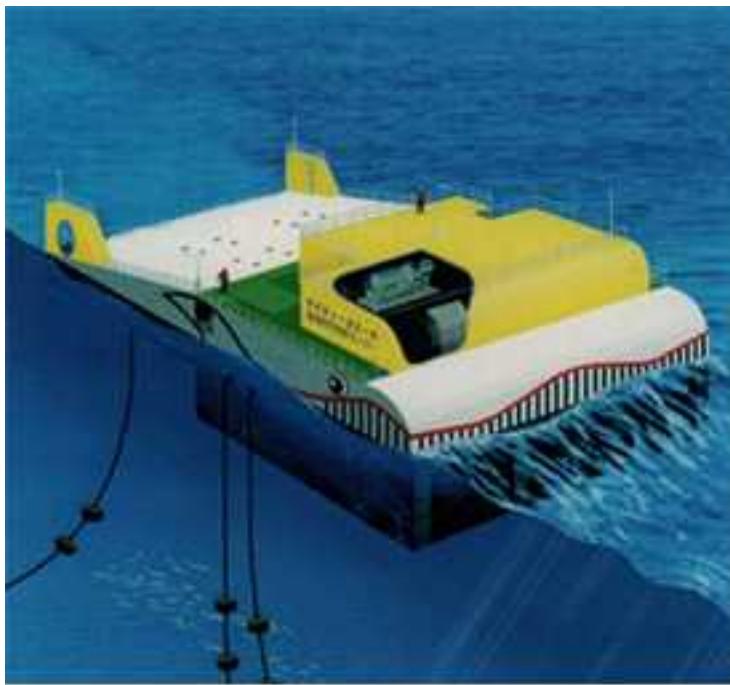
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National Nuclear Security Administration

Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND number: 2012-XXXX



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Sandia National Laboratories Battery Abuse Testing Laboratory

The Battery Abuse Testing Laboratory (BATLab) at Sandia is an internationally recognized leader in energy storage system safety research, and is committed to serving the energy storage community and the national interest with cutting-edge research programs, the highest quality testing results, and leadership in battery safety and reliability.

The BATLab is home to the world's largest and most comprehensive battery calorimetry laboratory, the DOE's largest lithium-ion cell prototyping facility, battery component analytical and diagnostic capabilities, and extensive failure-analysis and characterization tools. BATLab research and development (R&D) programs focus on:

- Understanding the mechanisms that lead to energy storage system safety and reliability incidents,
- Developing new materials to improve overall energy storage system safety and abuse tolerance,
- Performing abuse testing,
- Advancing testing techniques,
- Performing detailed failure analyses,
- Developing strategies to mitigate energy storage cell and system failures.



