

Florida Atlantic University

Southeast National Marine Renewable Energy Center

Web Site Link: <http://snmrec.fau.edu>

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Email: <https://snmrec.fau.edu/contact.html>

Description

<https://snmrec.fau.edu/about.html>

In working to fulfill its mission of advancing the science and technology of implementing marine renewable energy recovery, the SNMREC has adopted a multi-phase strategy involving resource assessment, testing infrastructure development, environmental interactions research, and outreach and education for the public. Each of these topic areas is being approached in a systematic fashion, and interactions among them receive special attention.

Resource assessment includes oceanic measurements of the Florida Current and of the thermal resources (that is, the oceanic temperature stratification) offshore of southeast Florida.

Testing infrastructure development—perhaps the single greatest need of the corporate developer community—is associated with the planning, fabrication, and deployment of equipment offshore to be used in at-sea tests of energy-generation prototypes.

Environmental interactions research includes a wide range of projects to develop understanding of the effects of the marine environment on marine renewable energy equipment and of the effects of that equipment, both at the prototype stage and for full-scale commercial deployments, on the marine environment.

Outreach and education for the public recognizes that future commercialization of marine renewable energy recovery will require an educated workforce that includes technicians, engineers, and scientists who are appropriately trained.

The integration of these topic areas ensures that the overall program leverages resources in the best possible way. For example, the testing infrastructure to be deployed will provide opportunities for at-sea experimental work on environmental interactions. And resource assessment results are providing guidance for both the infrastructure design and the interactions research.

SNMREC Contributions

Since the ocean energy industry is so young, many different areas need development to responsibly and quickly advance to commercialization. FAU's Southeast National Marine Renewable Energy Center (SNMREC) is leveraging public and private funds to address as many of these areas as possible. To make some sense of the challenges that remain and to address them systematically, the SNMREC has organized its contributions into focus areas:

1. [Education and Outreach](#)
2. [Technology Development](#)
3. [Resource Measurement and Modeling](#)
4. [Environmental Assessment](#)

5. [Technology Testing](#)
6. [Regulatory Framework](#)