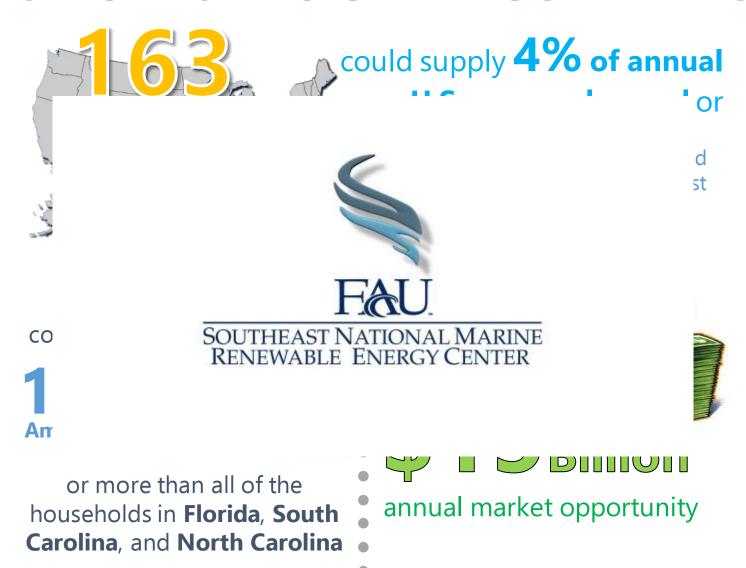


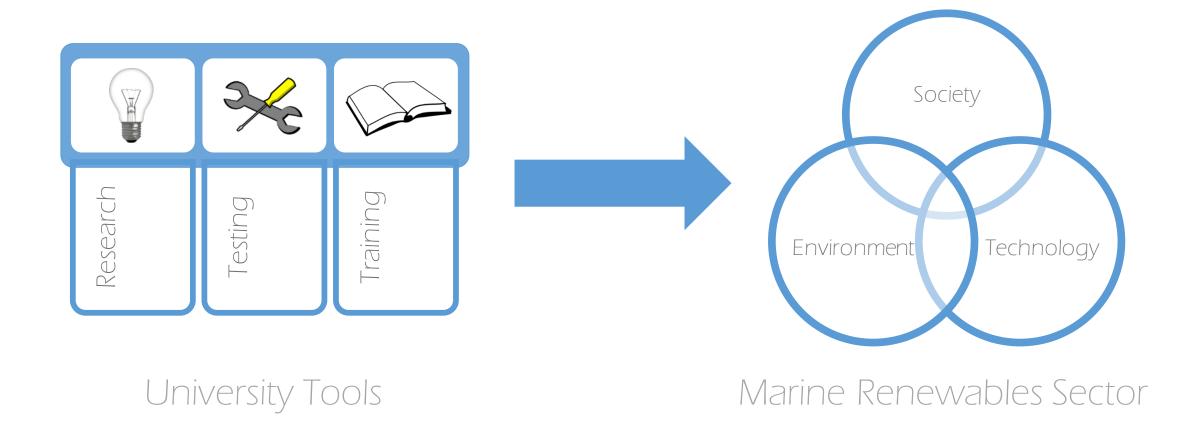
A U.S. Department of Energy Center designated at Florida Atlantic University

Power from OCEAN CURRENTS



SNMREC Approach

Enable the safe and responsible commercialization of marine renewables around the world.



@SNMREC http://snmrec.fau.edu snmrec

Major SNMREC Contributions

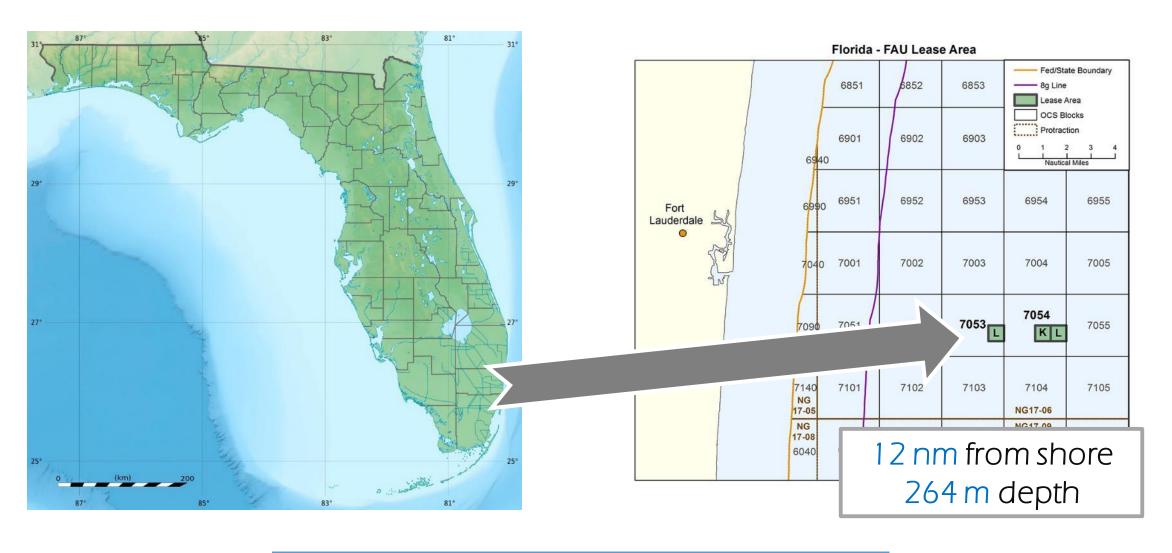
- negotiated the U.S.'s first and only lease to conduct marine renewable activities on the outer continental shelf
 the basis for established federal guidelines,
- leveraged state funds to become one of only three U.S. centers dedicated to marine renewables and the only center serving eastern U.S.,
- facilitated organization of **state-federal Florida task force** for marine renewables
- compiled more than **two years of aerial marine animal surveys** to understand risk of animals encounters with marine renewables offshore southeast Florida
- constructed and tested a research turbine to accelerate component design and environmental analysis,
- collected more than six years of unprecedented Gulf Stream resource data essential to designs, regulation, and site selection,
- guided and sponsored novel R&D in more than 45 key areas to fill in early stage knowledge gaps,
- trained more than 200 teachers in 7 south Florida counties to introduce marine renewable energy into high school science classrooms, and
- founding member of US marine renewables industry trade association and founding member of international technical standards efforts for marine renewables.

Small Scale Offshore Testing

- Fully Permitted for up to 100kW power and 7 meter rotor
- Resource characterization and real-time measurement
- Health monitoring system
- Ship-board turbine management up to 25kW power
- 20kW 3 meterrotorturbine test bed
- Persistent research and measurement platform in the Gulf Stream for long term studies



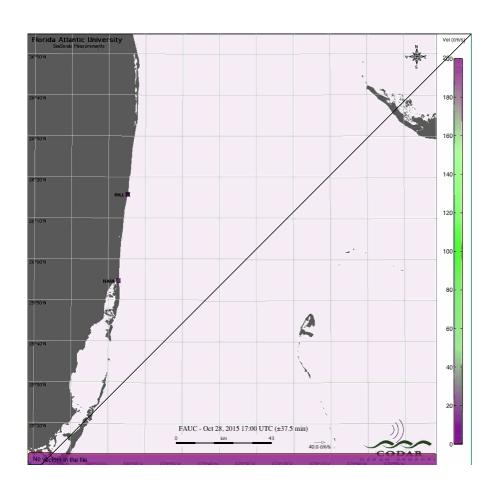
Offshore Test Sites



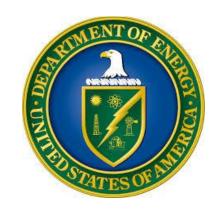
Ocean Current Measurement Program

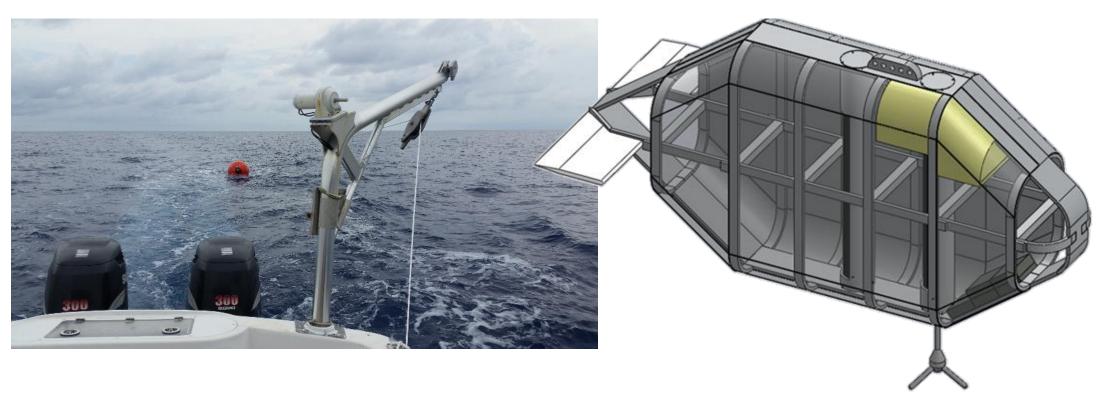


CODAR Data



Natural Ocean Current Turbulence Characterization





Questions

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