



Offshore Renewable Energy Session 1B

Welcome and Introduction

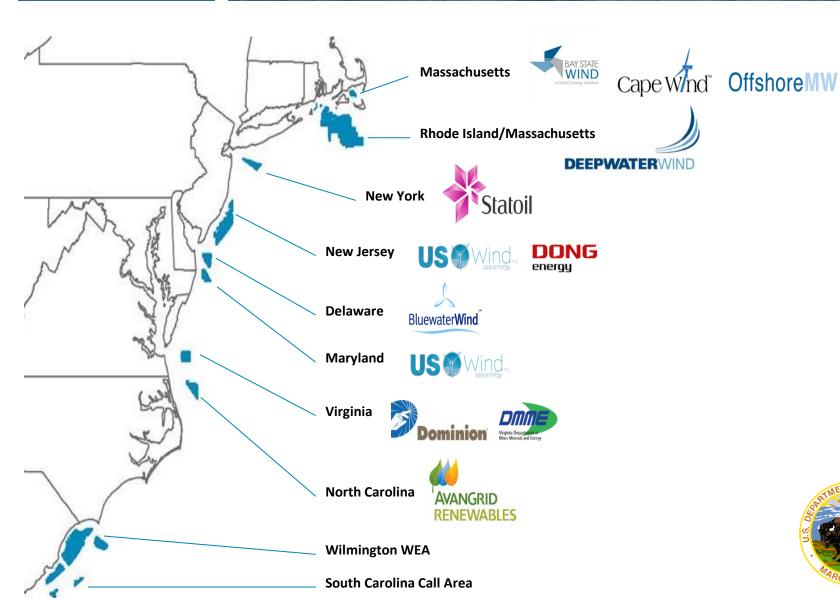
Michael Celata

Regional Director
Gulf of Mexico Region
Bureau of Ocean Energy Management





Atlantic Commercial Leases To Date







Environmental Studies and Research

- BOEM funds and partners on renewables research related to:
 - Offshore Wind
 - Ocean Wave Energy (Hydrokinetic)
 - Ocean Current Energy (Hydrokinetic)
- Environmental Studies Program primarily funds Baseline, Fates & Effects, and Monitoring Studies
- >40 years of biological, physical, and social science research in the Gulf
- BOEM also partners with BSEE to fund research through the Technology Assessment Program

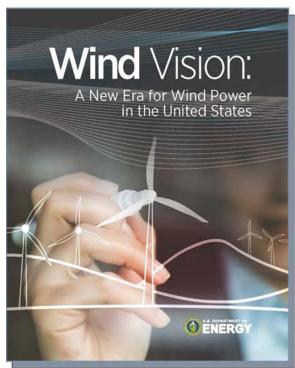


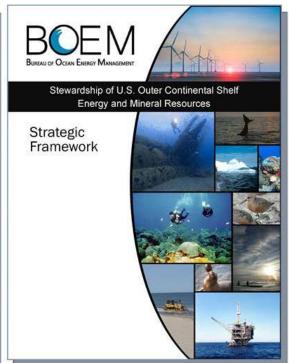


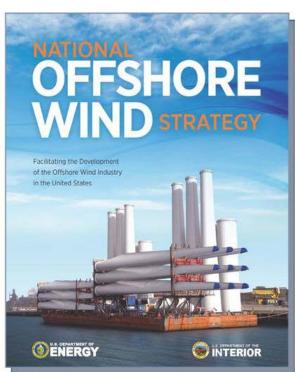




Federal Government Renewable Energy Goals and Collaboration







March 2015 March 2016 September 2016





Protected Species Observations

Assessing Broad-Scale Abundance and Distribution of Marine Mammals, Sea Turtles, and Seabirds in the Gulf of Mexico:

GoMMAPPS Field Program



Gulf of Mexico Marine Assessment Program for Protected Species









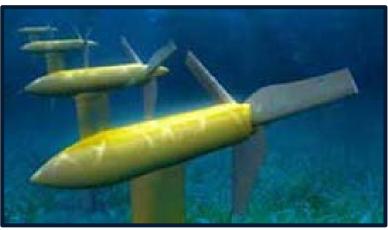






Gulf of Mexico Feasibility Study





- New study with NREL to inform Gulf Region's strategic planning.
- "Offshore Renewable Energy Feasibility Study Across Technology Types for U.S. GoM"
- Tasks involve:
 - Survey of technologies
 - Regional Techno-Economic Modeling
 - Site-specific analysis
 - Jobs and economic development
 - Outreach materials
- Opportunity for coordination between federal, state, and local governments.





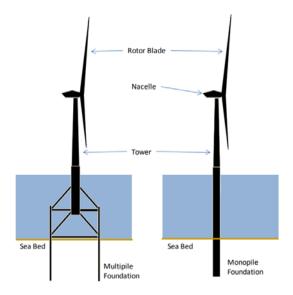




Turbine Designs and Standards



Source: http://www.class.noaa.gov/



- BOEM has a history of ensuring offshore wind turbines are designed to withstand extreme weather events, including hurricanes.
- Turbines are currently designed to withstand extreme weather events based on a target reliability, similar to the Oil and Gas industry.
- BOEM/BSEE continue efforts to help develop new structural safety standards for offshore wind turbines based on better understanding natural phenomenon.
- Recently sponsored two workshops for the development of design standards, leading to recommendations for moving forward.

