

BOEM

Bureau of Ocean Energy
Management

GOM Renewable Energy Update

Michael Celata

Regional Director, Gulf of Mexico Regional Office

Gulf States Marine Fisheries Commission

Technical Coordinating Committee

October 20, 2021



BOEM's Mission Responsibilities

OCS Lands Act: "... vital national resource ... expeditious and orderly development ... environmental safeguards"

Energy Policy Act of 2005: "... energy from sources other than oil and gas ..."



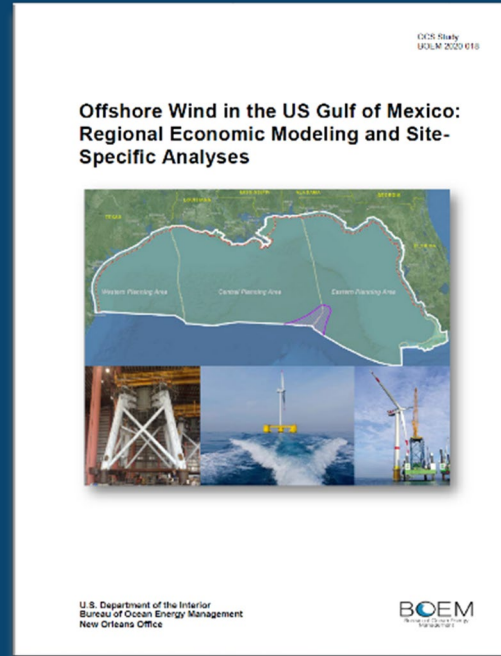
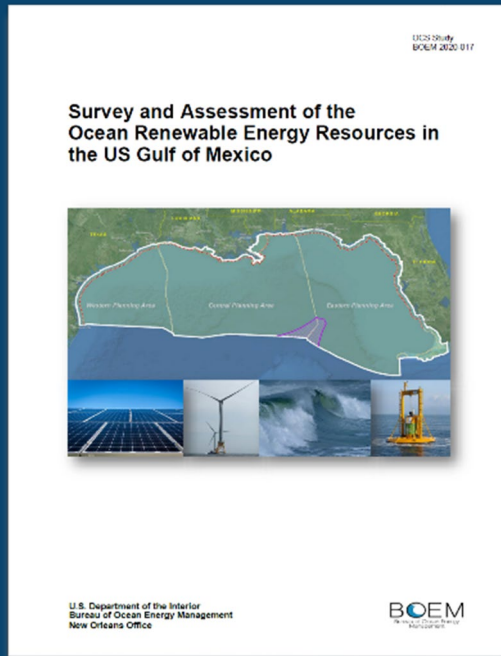
Gulf of Mexico OCS

Outer Continental Shelf Renewable Energy

Agenda

- **Background**
- **Renewable Leasing Process**
- **Offshore Wind Farms and Associated Infrastructure**
- **Next Steps**

BOEM Sponsored Two NREL Studies on Gulf of Mexico (GOM) Through an Interagency Agreement – Published in 2020



Special Acknowledgements:

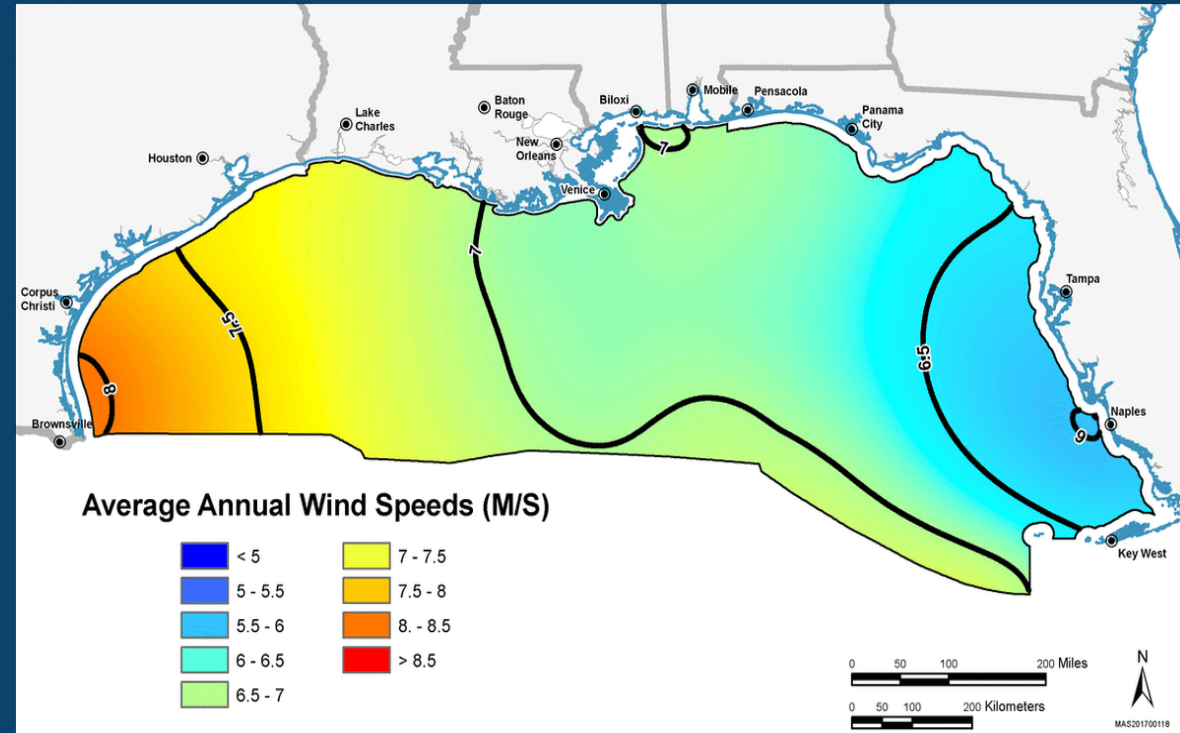
- **Mike Celata**, BOEM's GOM Regional Director
- **Rebecca Green** for initiating the project
- **Andrea Heckman** the BOEM project manager
- **Tershara Matthews**, current coordinator

Musial W, Tegen S, Driscoll R, Spitsen P, Roberts O, Kilcher L, Scott G, and Beiter P (National Renewable Energy Laboratory and the Alliance for Sustainable Energy, LLC, Golden, CO). 2019. Survey and assessment of the ocean renewable resources in the US Gulf of Mexico. New Orleans (LA): Bureau of Ocean Energy Management. Contract No.: M17PG00012. Report No.: OCS Study BOEM 2020-017. https://epis.boem.gov/final%20reports/BOEM_2020-017.pdf

Musial W, Beiter P, Stefek J, Scott G, Heimiller D, Stehly T, Tegen S, Roberts O, Greco T, Keyser D (National Renewable Energy Laboratory and the Alliance for Sustainable Energy, LLC, Golden, CO). 2020. Offshore wind in the US Gulf of Mexico: regional economic modeling and site-specific analyses. New Orleans (LA): Bureau of Ocean Energy Management. 94 p. Contract No.: M17PG00012. Report No.: OCS Study BOEM 2020-018. https://epis.boem.gov/final%20reports/BOEM_2020-018.pdf

Gulf of Mexico Renewable Energy

- Louisiana Governor Edwards requested a Task Force on October 26, 2020.
- December 2020, Gulf of Mexico Region responded to the LA Task Force Request Letter with a region-based Task Force approach. The inaugural GOM Regional Task Force Meeting was held on June 15, 2021.
- Conducting outreach and engagement to collect data and information.
- Advantages: Proximity to oil and gas supply chain – leverage existing capabilities
- Challenges: Hurricanes – major hurricanes could increase turbine and substructure costs



BOEM Renewable Energy Authorization Process



Planning & Analysis

~ 2 YEARS

- Intergovernmental Task Force
- Request for Information or Call for Information and Nominations
- Area Identification
- Environmental Reviews



Leasing

~ 1-2 YEARS

- Publish Leasing Notices
- Conduct Auction or Negotiate Lease Terms
- Issue Lease(s)



Site Assessment

UP TO 5 YEARS

- Site Characterization
- Site Assessment Plan

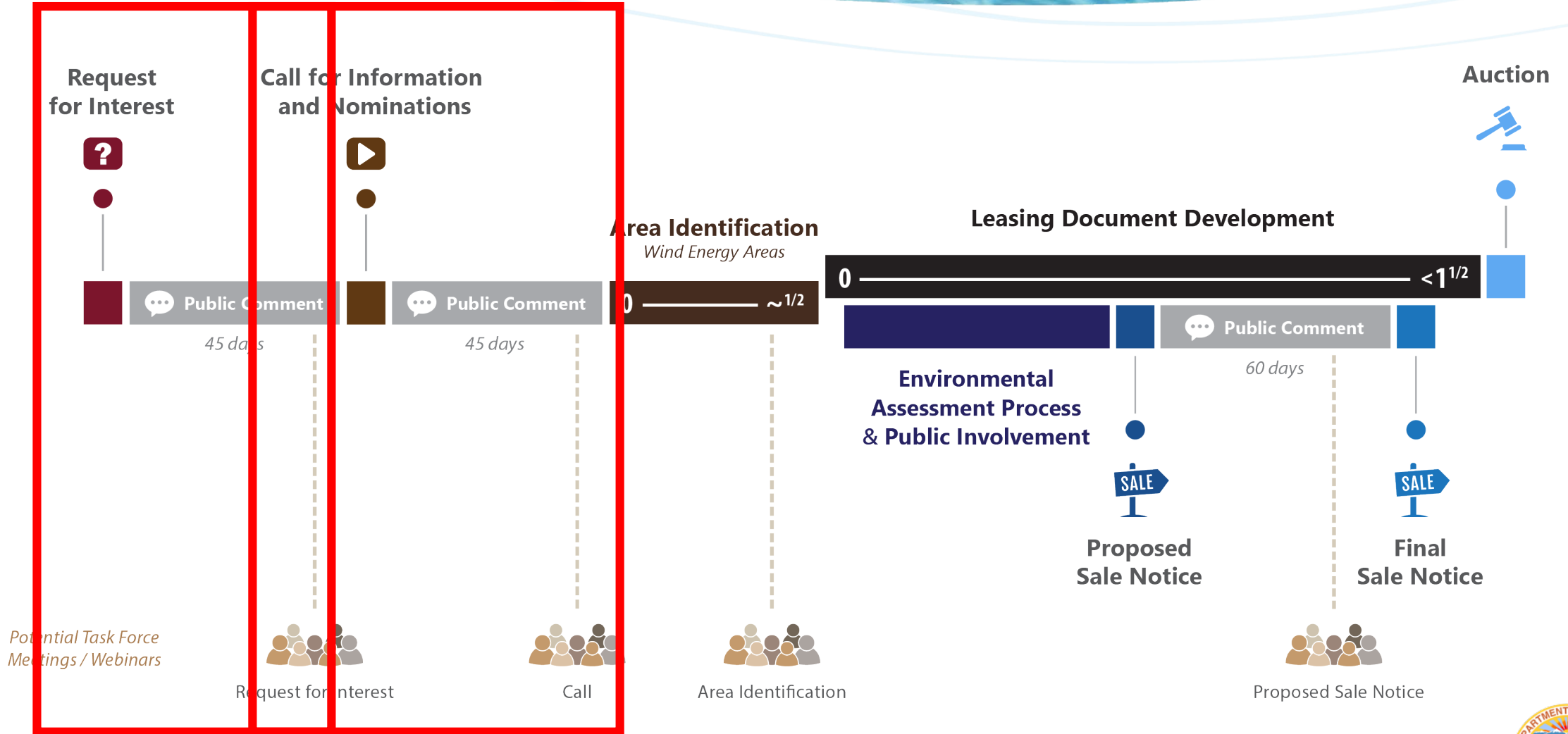


Construction & Operations

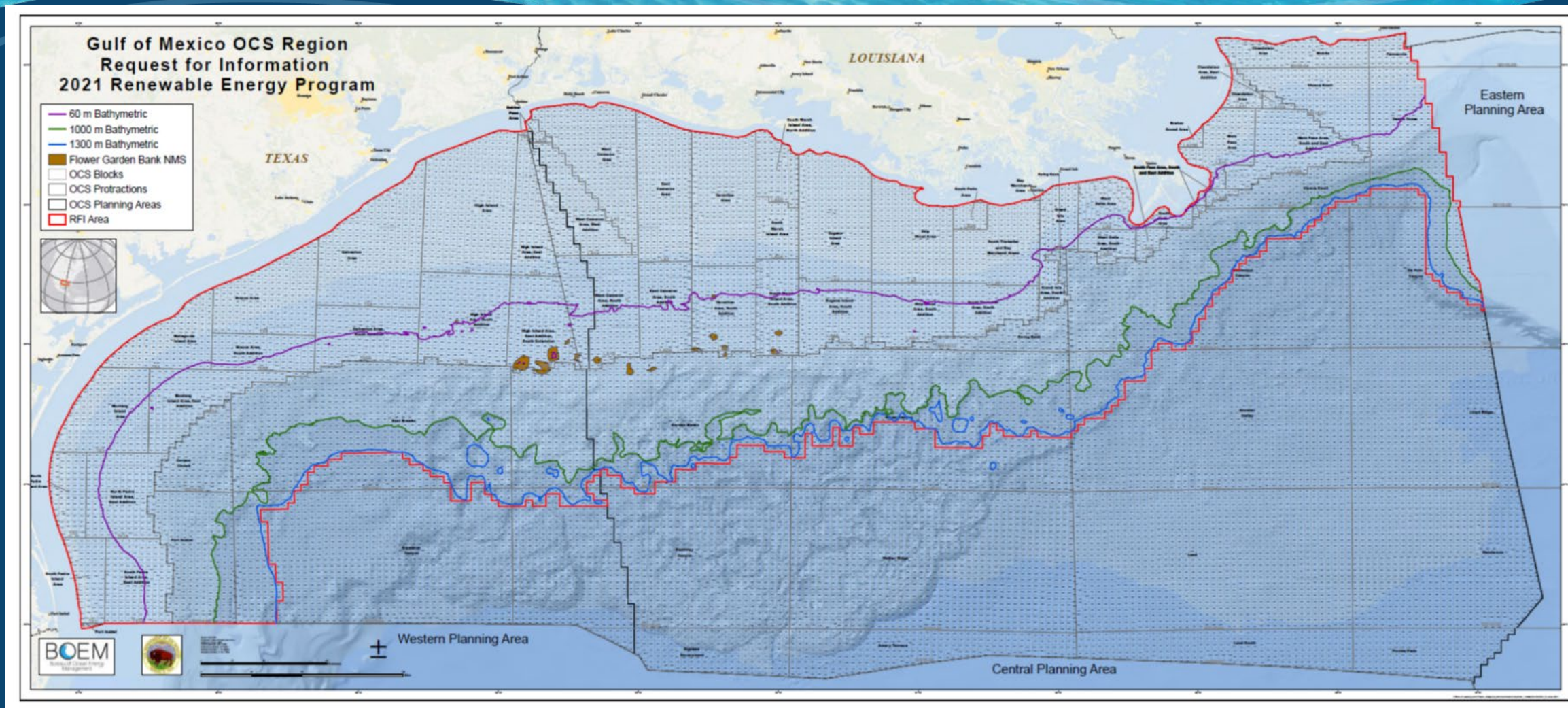
~ 2 YEARS (+25)

- Construction & Operations Plan
- Facility Design Report and Fabrication & Installation Report
- Decommissioning
- Environmental and Technical Reviews

Request for Interest to Lease Sale



Request for Interest (RFI) Area



RFI Comment Summary

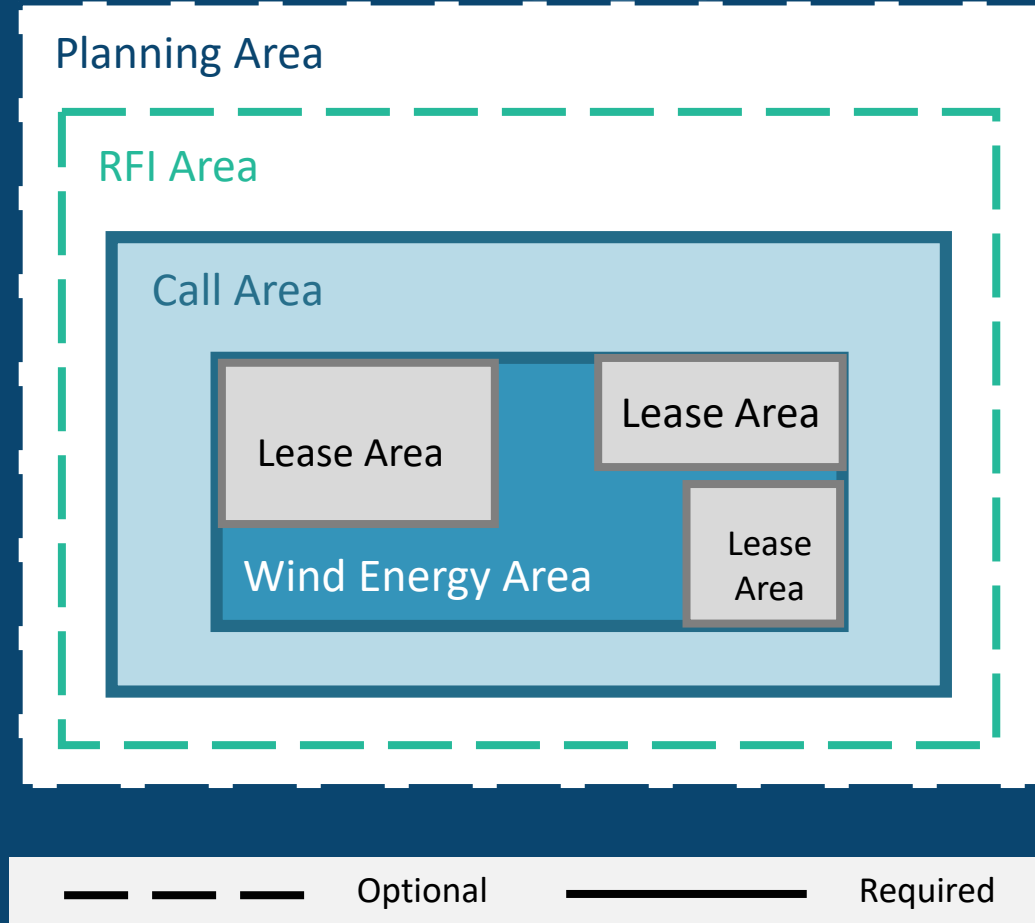
Stakeholder Comments	Number of comments
Private Citizens	10
State Agencies (LA)	2
Federal Agencies	2
Universities	1
Non-governmental Organizations (NGOs)	14
Industry	10
Total Comments	39

For information on how to submit comments to BOEM regarding offshore wind projects, go to:
<https://www.boem.gov/renewable-energy/state-activities/gulf-mexico-gom-intergovernmental-renewable-energy-task-force>

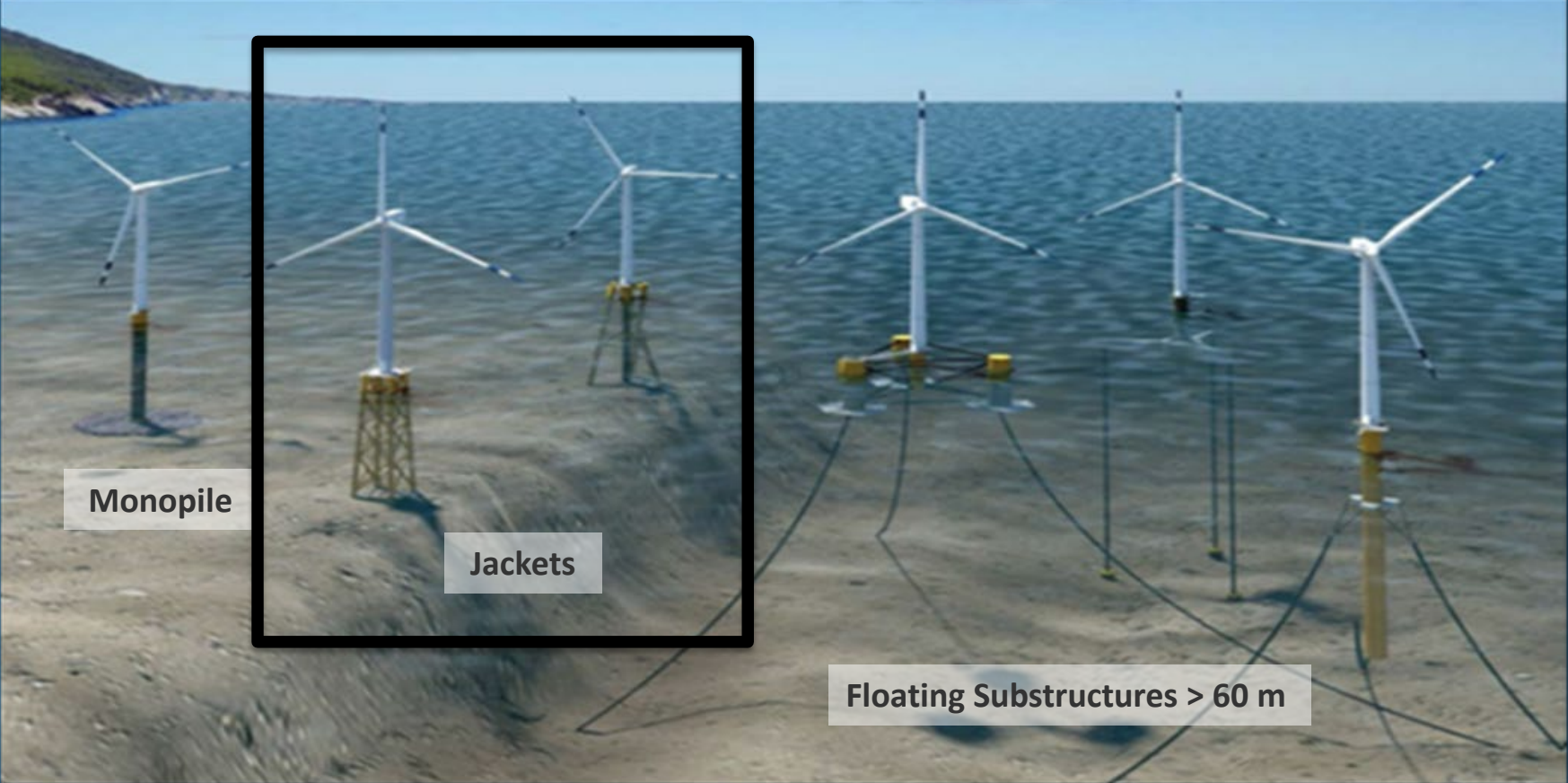


Request for Interest (RFI) Area

- Call Areas for wind energy have the potential for interest
- Initial identification of areas that may be suitable
- Conditions in the Call Area
- Shred potential for lease areas
- Area developed for leasing



Offshore Wind Turbine Structures



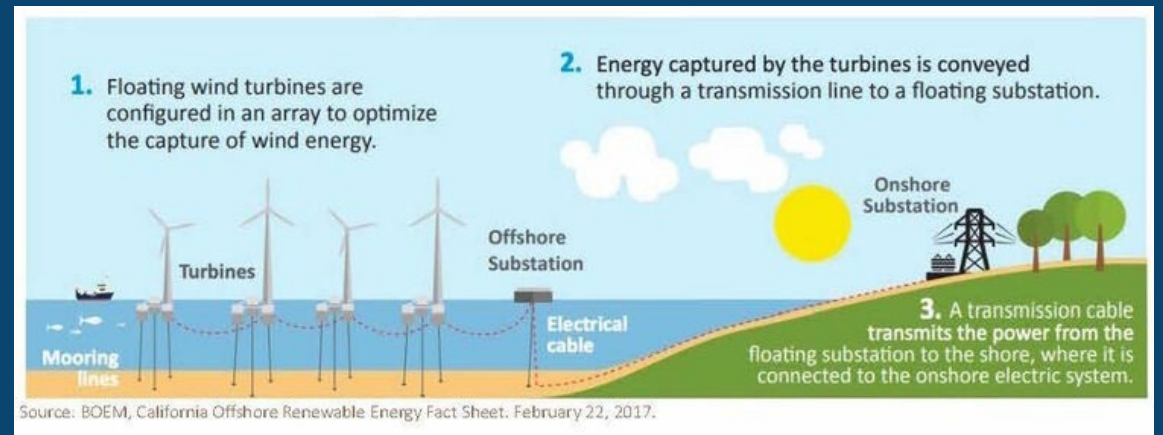
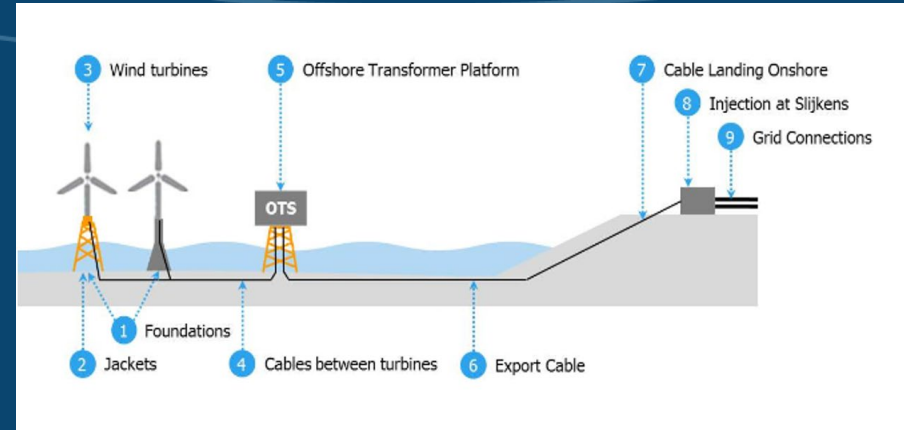
Monopile

Jackets

Floating Substructures > 60 m



Typical Windfarm Layout

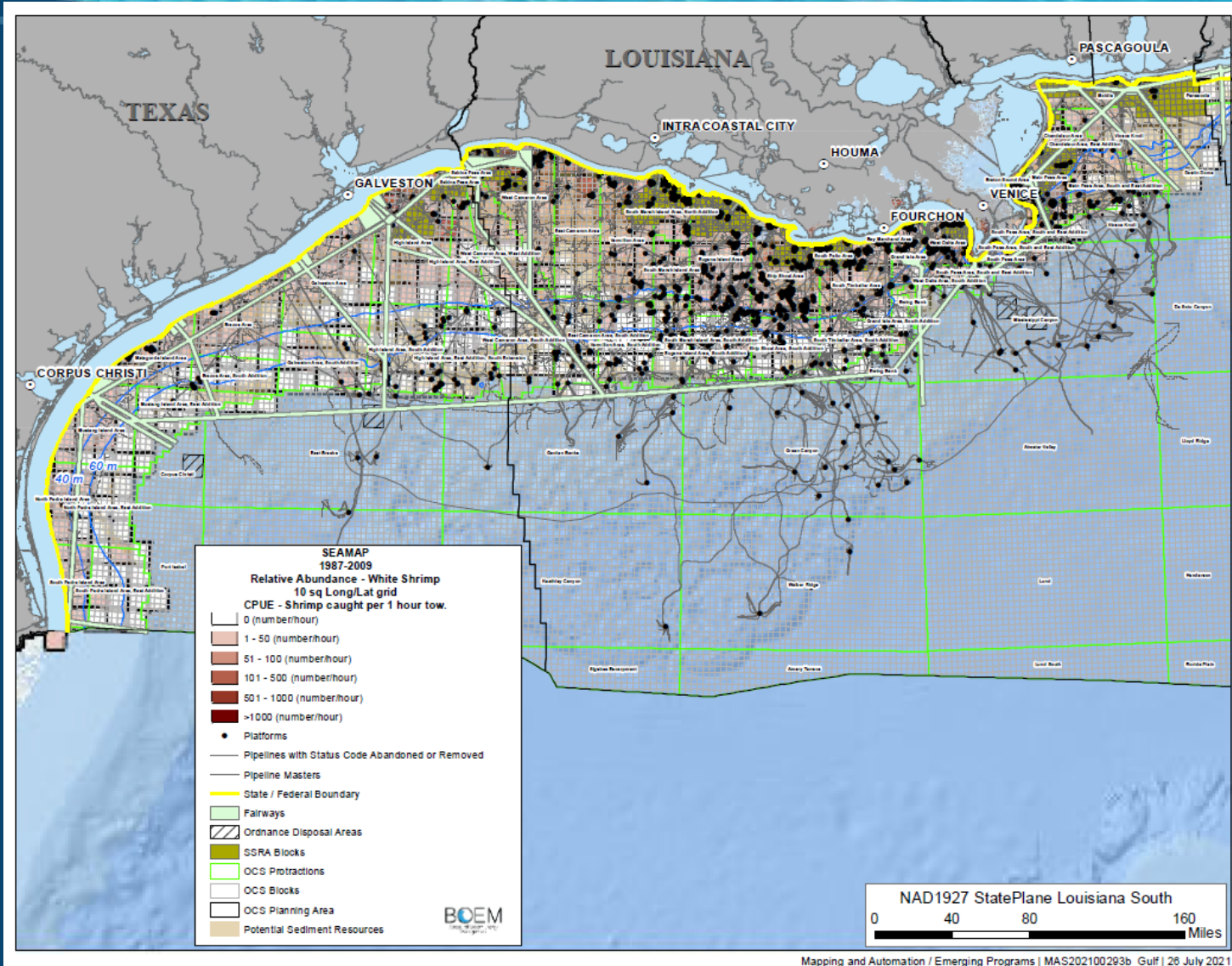


Stakeholder Engagement Milestones

Stakeholder Engagement	Date
State of Louisiana	Dec 2020-July 2021
State of Alabama	January, March 2021
USACE Resource Agency Regional Meeting	January 28, 2021
DOI Restore Team	February 4, 2021
Federal Partners Meeting	February 24, 2021
Gulf States Marine Fisheries Commission	March 17, 2021
NOAA	April 6, 2021
DoD	April 9, 2021
The Business Network for Offshore Wind	April 22, 2021
State of Mississippi	April 2021
The Business Network for Offshore Wind	May 6, 2021
OOC Wind Workshop	May 10, 2021
GOM Fishery Management Council	May 26, 2021

Stakeholder Engagement	Date
Tribal Informational Meeting	June 10, 2021
BOEM GOM Task Force Meeting	June 15, 2021
LA Wind Week	June 21-25, 2021
Gulf of Mexico Alliance Offshore Wind Webinar	June 30, 2021
LA Oyster Task Force Meeting	July 20, 2021
LA Crab Task Force Meeting	August 3, 2021
LA Shrimp Task Force Meeting	August 4, 2021
GOM Fishery Management Council	August 25, 2021
LA Finfish Task Force Meeting	August 25, 2021
Reef Fish Stakeholders' Alliance	September 10, 2021
NOAA-NMFS	September 24, 2021
Gulf States Marine Fisheries Commission	October 20, 2021

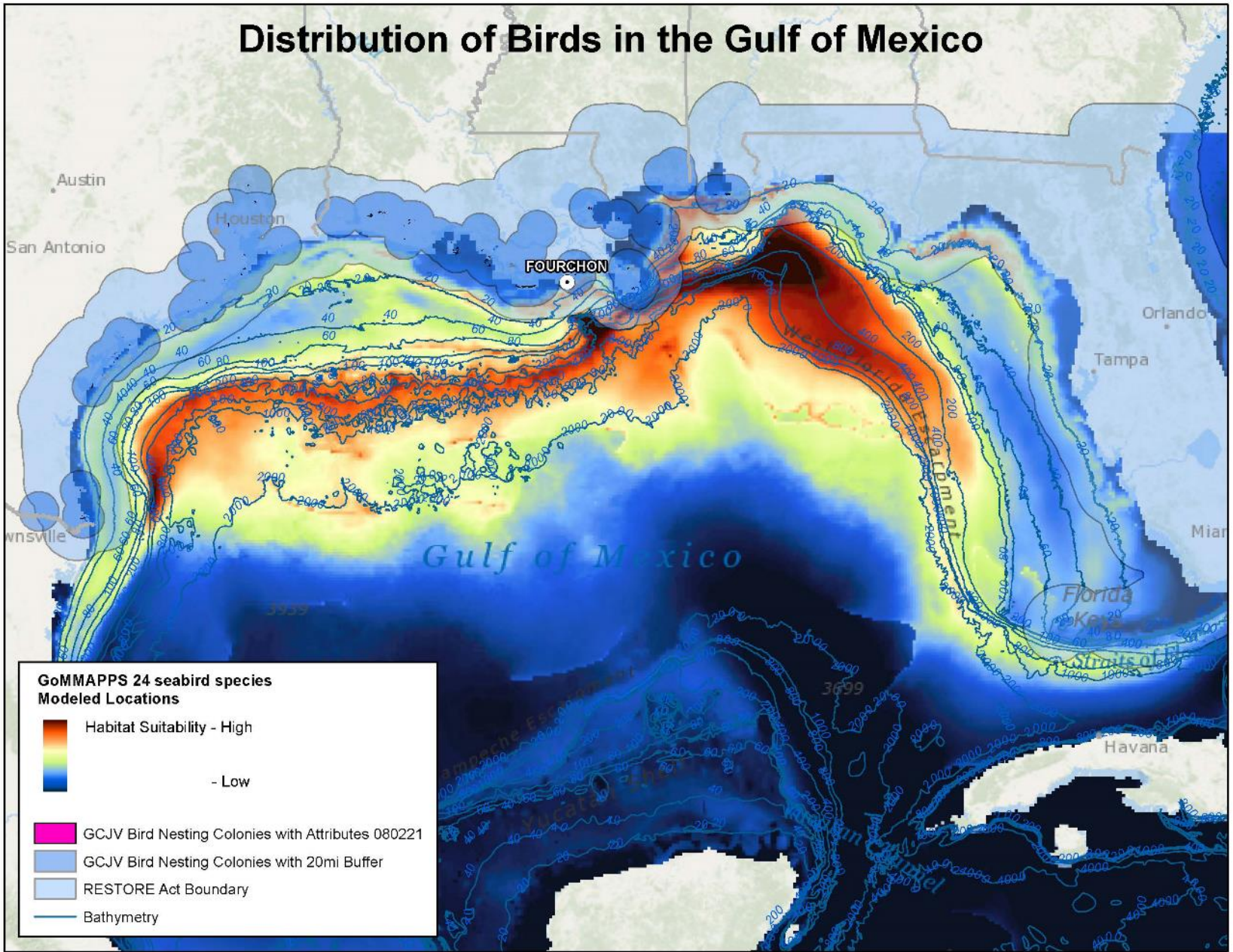
White Shrimp Gulf Data Map



Mapping and Automation / Emerging Programs | MAS202100293b_Gulf | 26 July 2021



Draft Avian Map



Immediate Action: **Next Few Months**

Next Steps

- Request for Interest Comment Period closed on July 26, 2021
- Call for Information
- Start an Environmental Assessment
- Wind Energy Area (WEA) analysis
- Draft Area Identification (ID) memo and determine WEAs
- Identify lease areas, auction format, and publish Proposed Sale Notice (PSN)
- Proposed Lease Auction



Team Members

GOM Regional Director:

Michael Celata – Michael.celata@boem.gov

Chief of Emerging Programs:

Tershara Matthews - Tershara.Matthews@boem.gov

Renewable Energy Coordinator:

Idrissa Boubé - idrissa.boube@boem.gov

Fisheries Team Lead:

Mariana Steen- mariana.steen@boem.gov

Data Management:

Dana Inzinna - Dana.Inzinna@boem.gov

Communications:

John Filostrat - john.filostrat@boem.gov

Hillary McKey - Hillary.mckey@boem.gov



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U.S. Department of the Interior

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Michael Celata | michael.celata@boem.gov

