



Bureau of Ocean Energy
Management

BOEM GOM Renewable Energy Update

Tershara Matthews

*Chief, Emerging Programs,
Gulf of Mexico Regional Office*

Shrimp Advisory Panel

December 8, 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 ..."



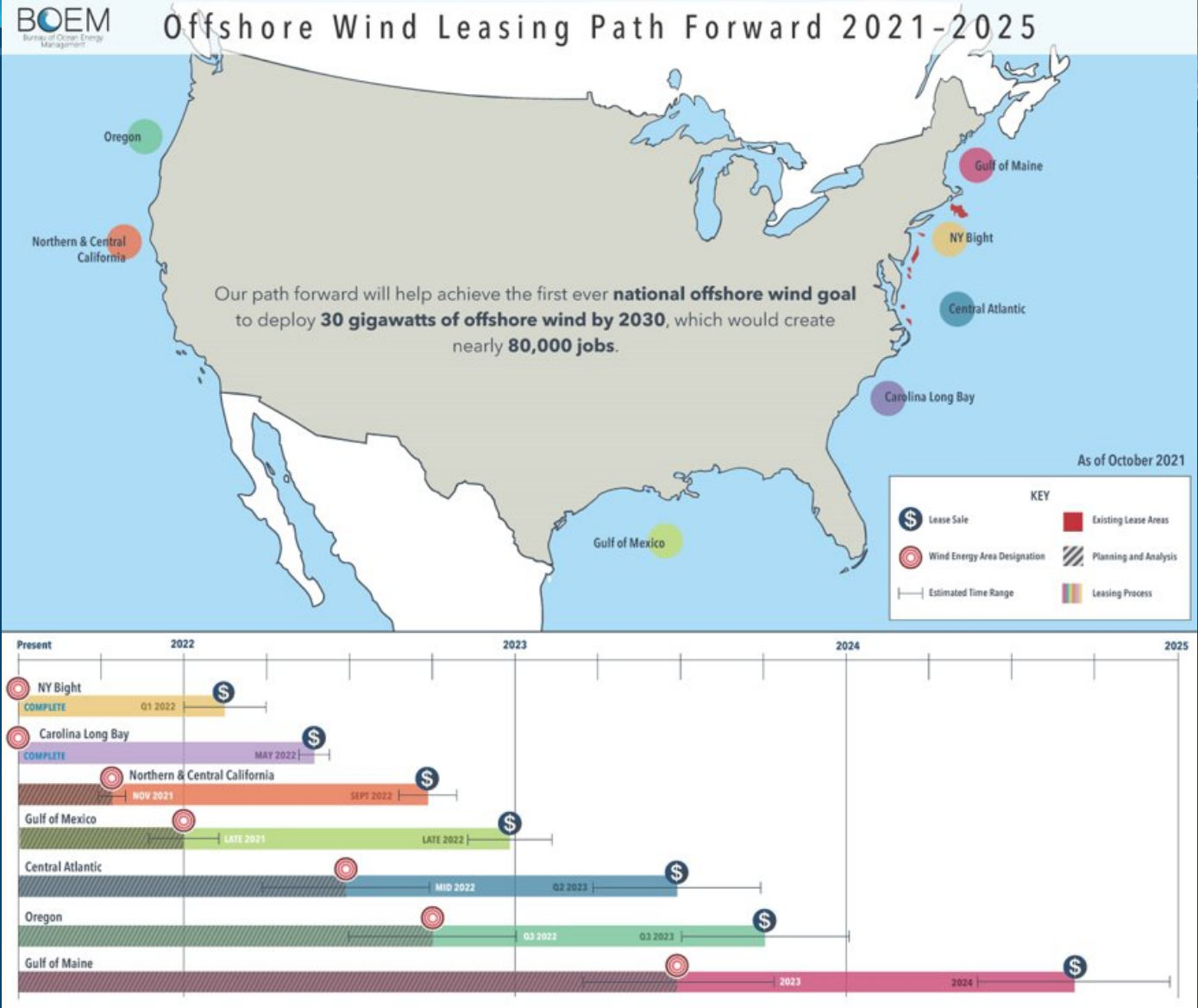
Gulf of Mexico OCS

Administration Goals

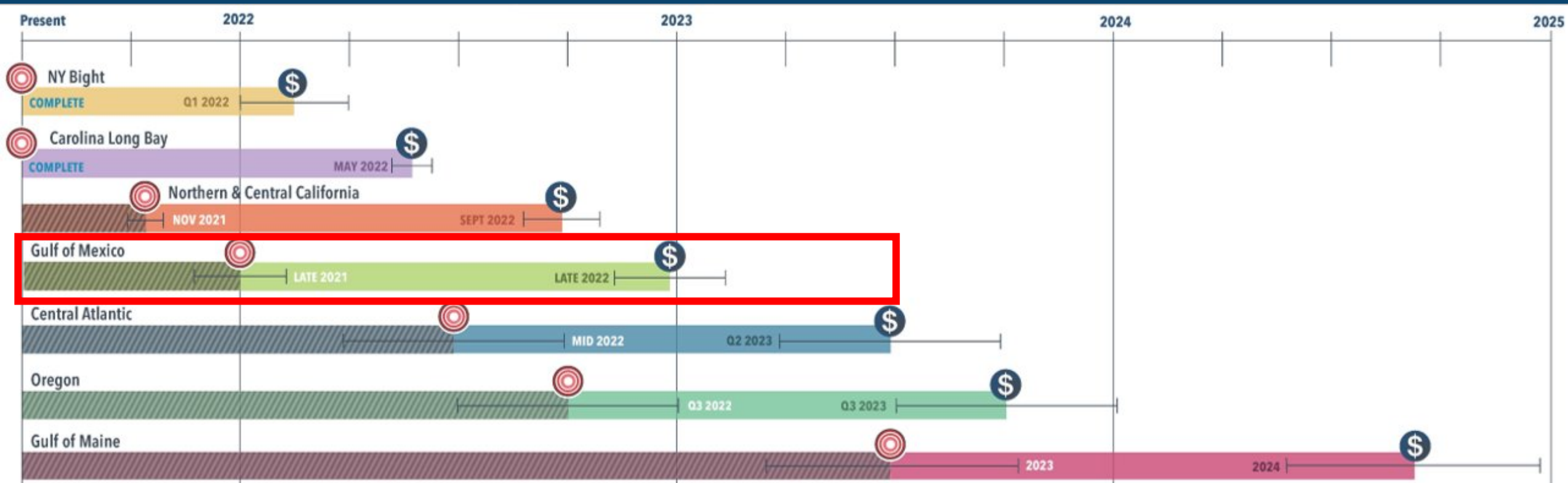
- President Biden issued **Executive Order 14008** that called for the Interior Department to identify steps to increase responsible renewable energy development on public lands and waters
- First-ever **national offshore wind goal** to deploy **30 gigawatts of offshore wind by 2030**, which would create nearly **80,000 jobs**.



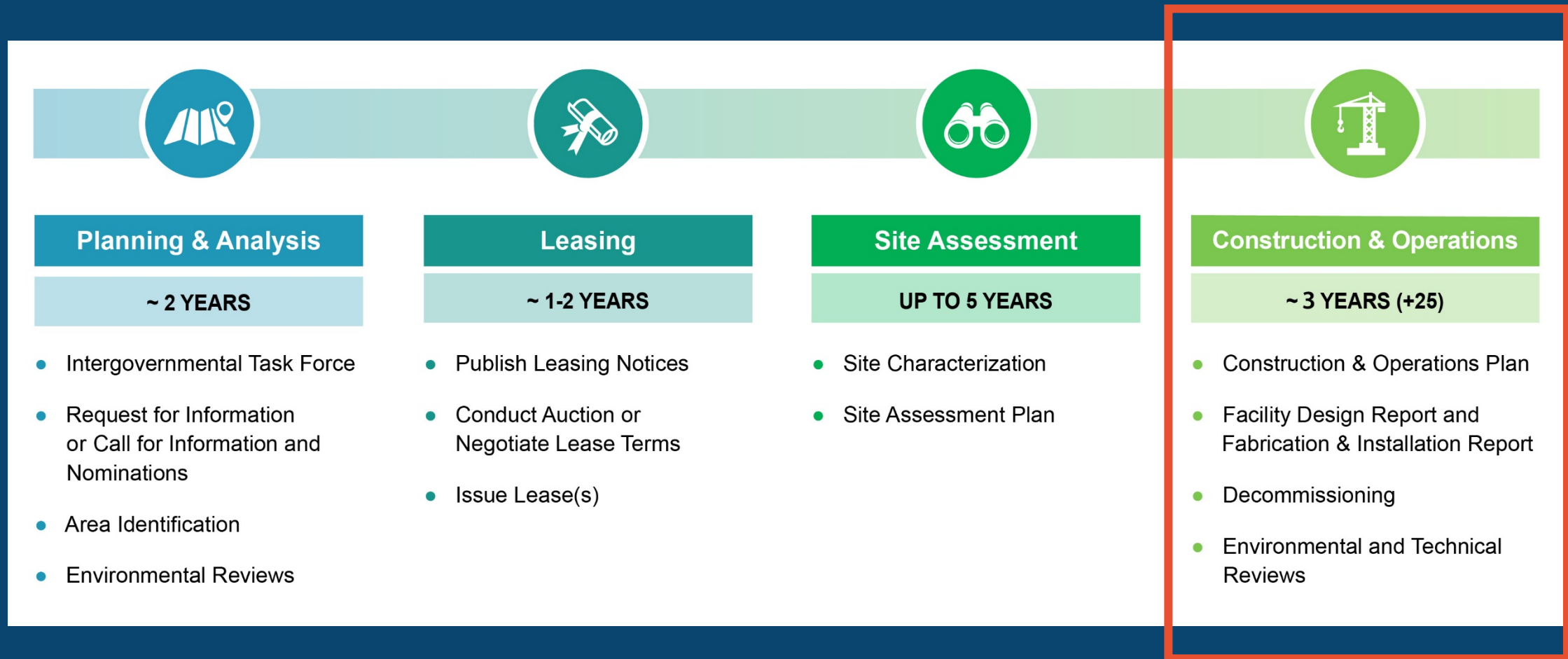
Offshore Wind Leasing Path Forward for 2021-2025



Leasing Path Forward for 2021-2025



Renewable Energy Process: Overview and Post-Lease Activities





Renewable Energy Program by the Numbers

Competitive Lease Sales Completed:

8

Active Commercial Offshore Leases Issued:

18

Active Research Offshore Leases Issued:

2

Site Assessment Plans (SAPs) Approved:

12

General Activities Plans Approved:

1

Construction and Operations Plans (COPs):

- Approved

1 in 2021

- Under Review

13

- Anticipated within Next 12 Months

4

Guidance:

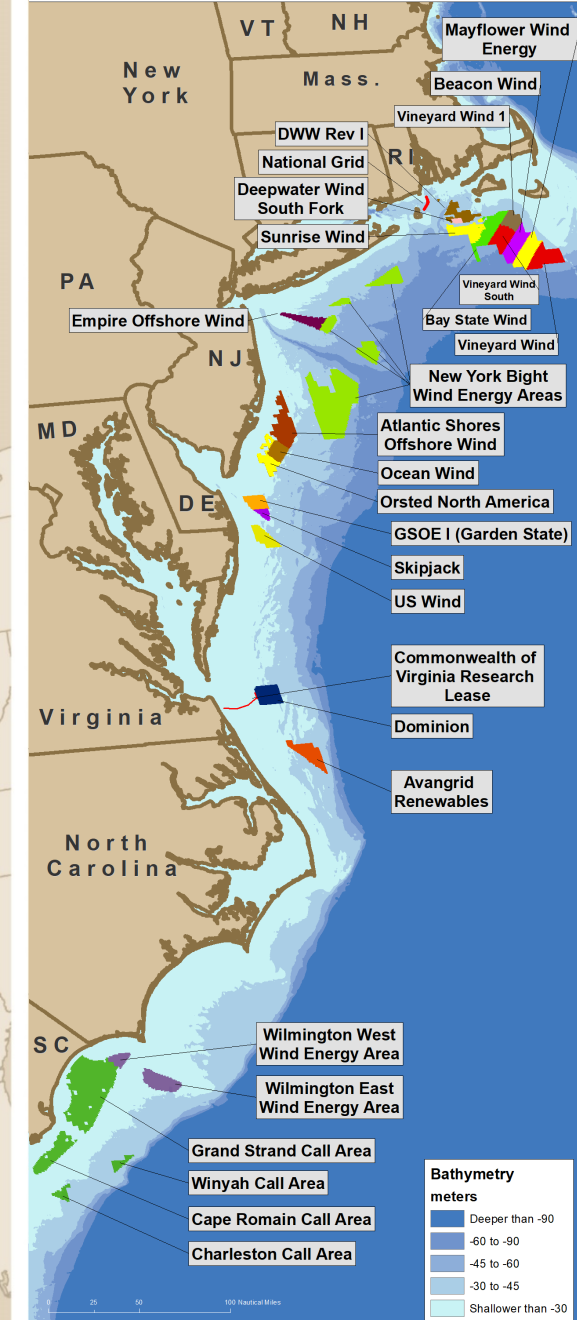
10

Leasing Under Consideration:

7

Steel in the Federal Waters:

2020



Estimated Capacity from Existing Leases

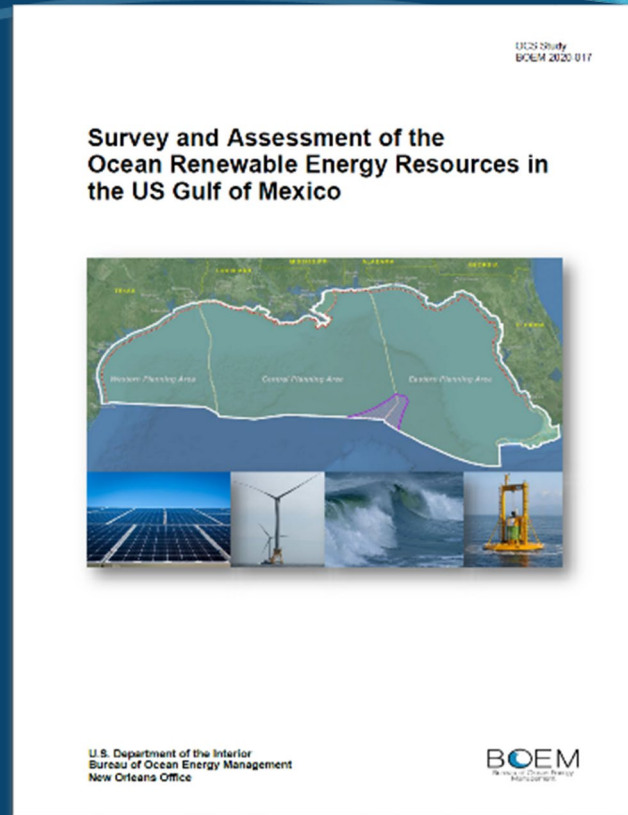
- Estimated capacity from COPs filed = ~ 19 GW
- Estimated capacity from remaining lease area = ~ 8 GW
- Additional lease area is necessary to achieve 30 GW x 2030

Gulf of Mexico Outer Continental Shelf Renewable Energy

Agenda

- **Background**
- **Renewable Leasing Process**
- **Next Steps**

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



Special Acknowledgements:

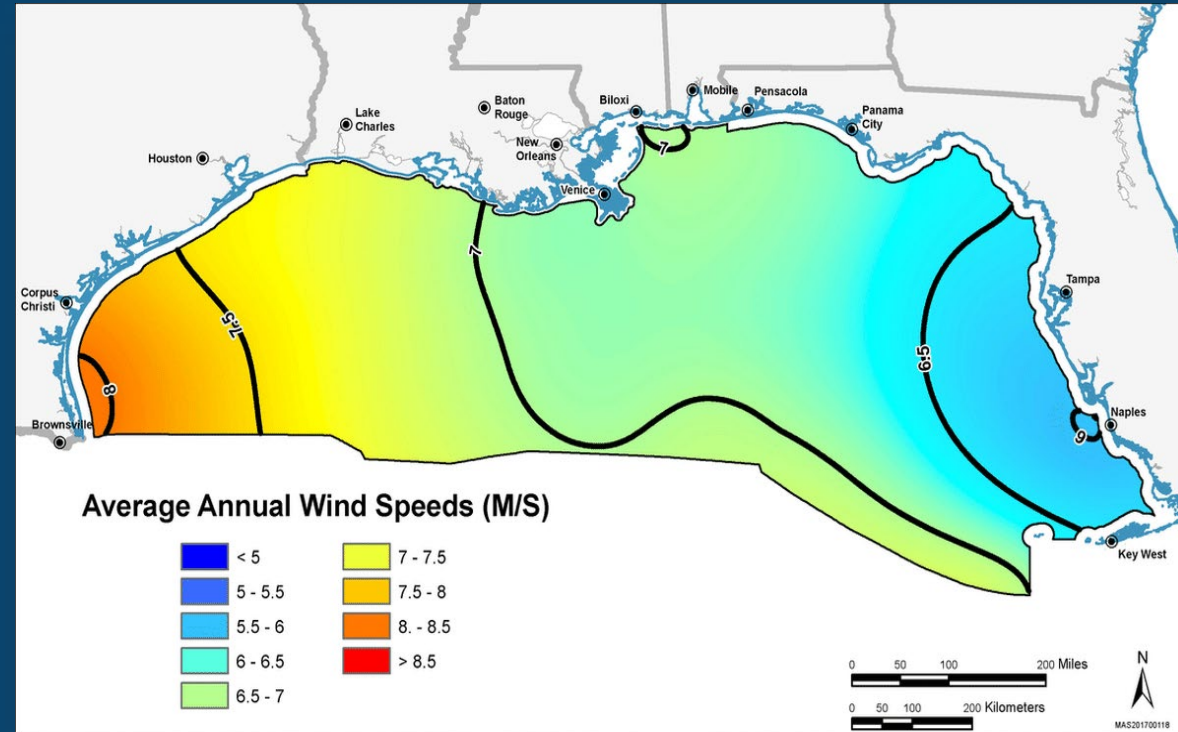
- **Mike Celata**, BOEM's GOM Regional Director
- **Rebecca Green** for initiating the project
- **Andrea Heckman** the BOEM project manager
- **Tershara Matthews**, current coordinator

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 Process: Overview

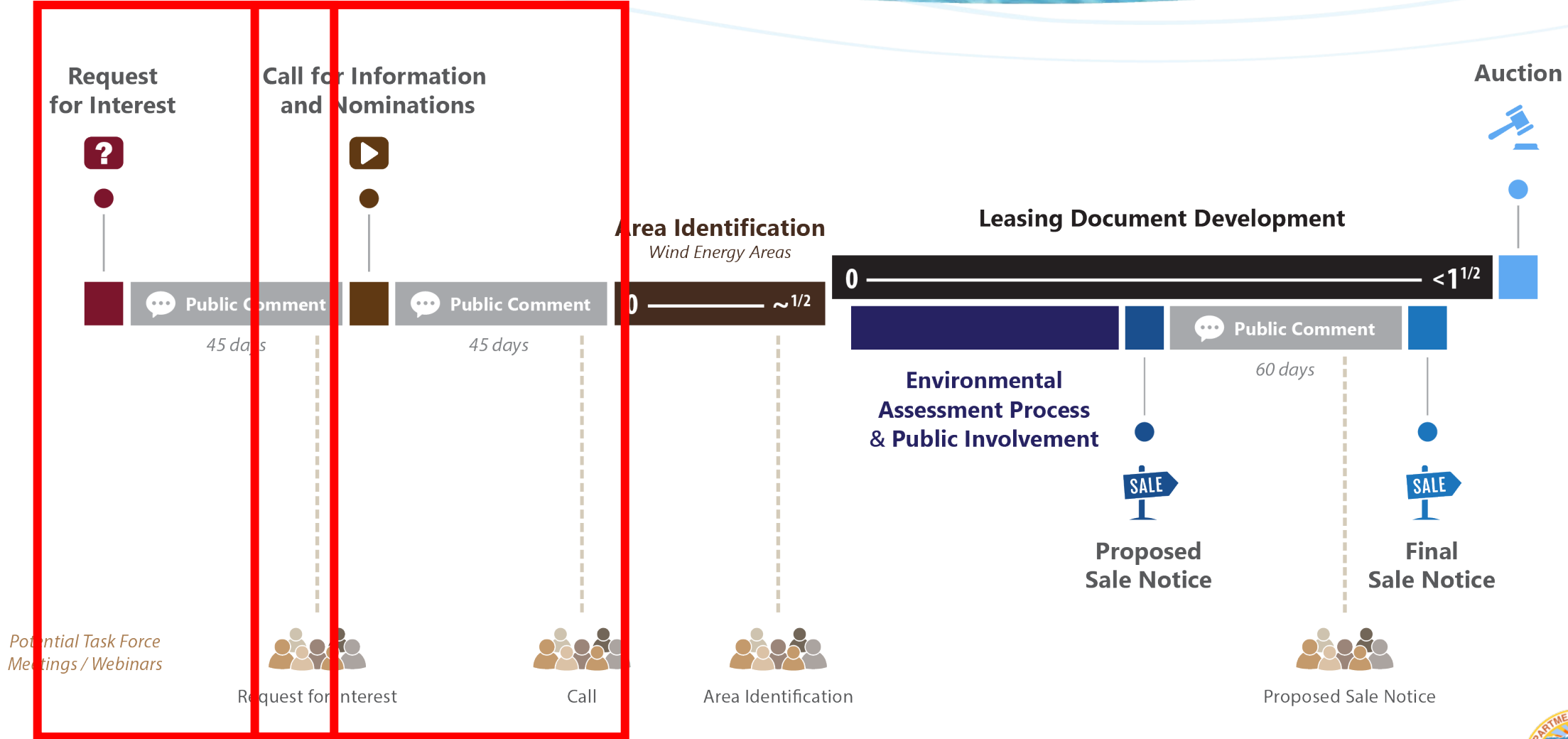


What is a Renewable Energy Intergovernmental Task Force?

- **OCSLA** requires **coordination** with the Governor of any **affected State** [30 CFR 585.102(e)]
- Initiated by a state Governor request to BOEM
- Coordination and **information exchange** with governmental partners
- Members include elected officers of state, local, and tribal governments and federal officials

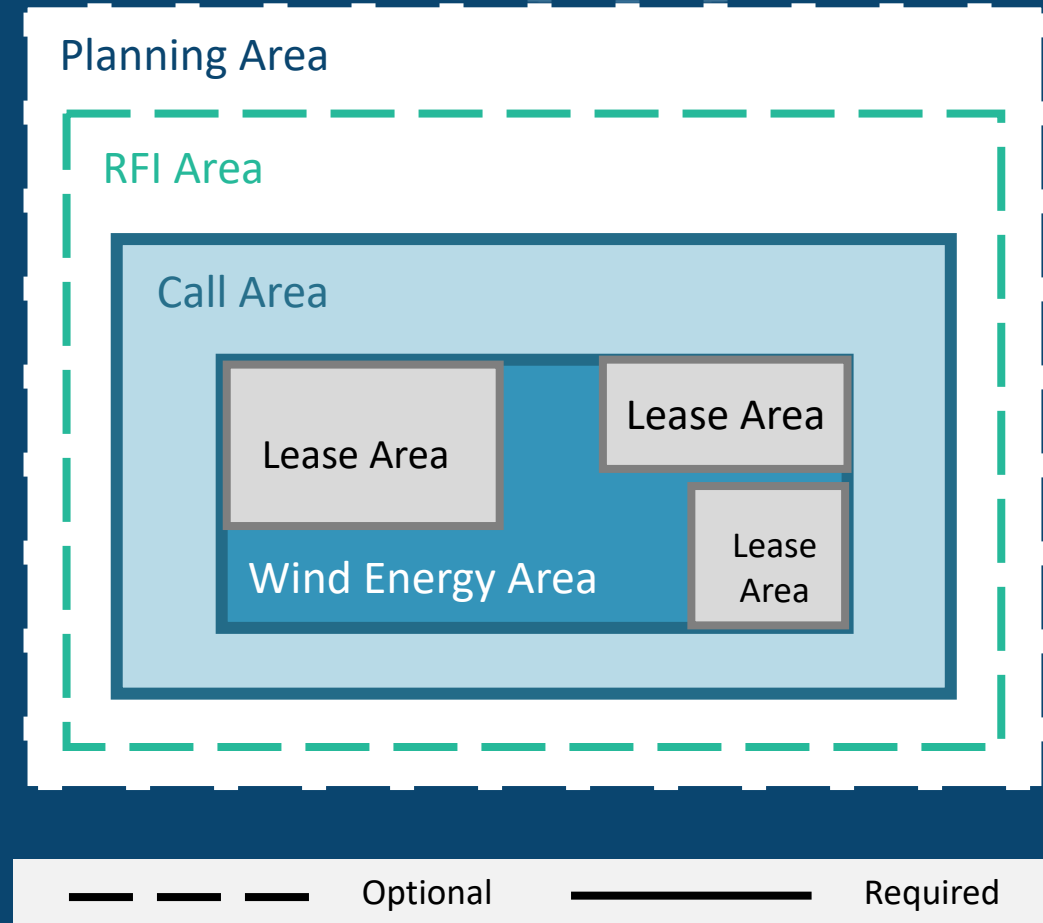


Renewable Energy Process: Focus on Pre-Lease Activities

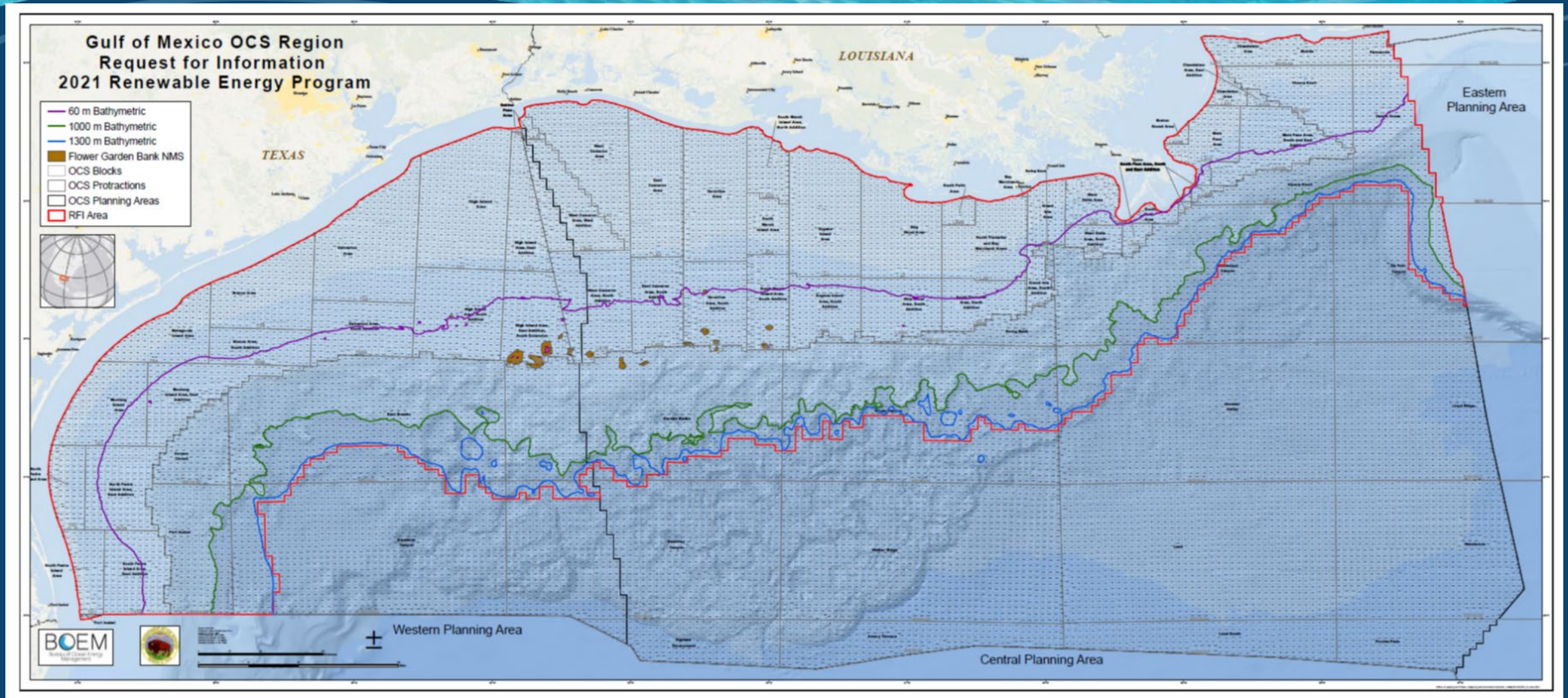


Renewable Energy Process: Area Identification

- Call Area for potential future interest
- Initial identification of areas that may be suitable
- Conditions in the Call Area
- Shred potential for future development



Request for Interest (RFI) Area

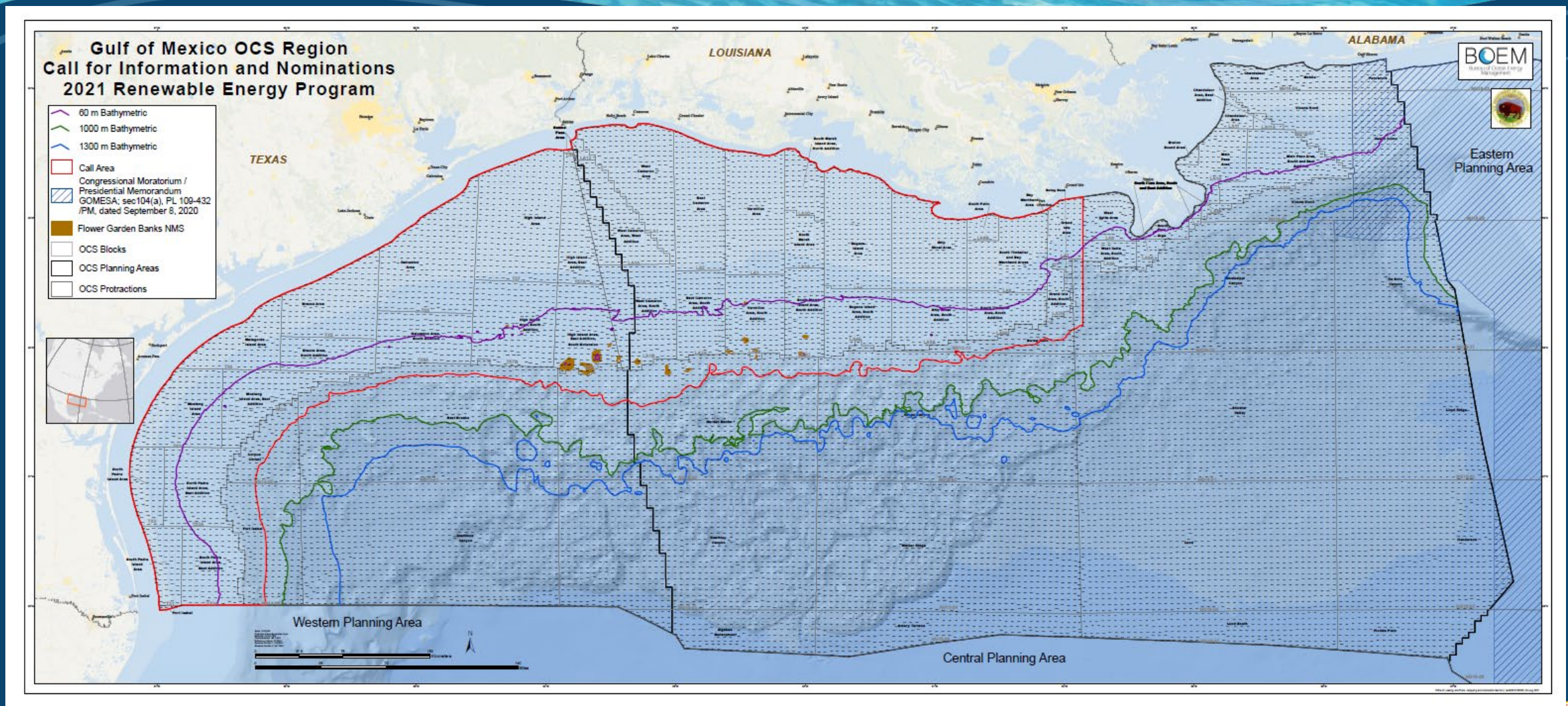


RFI Comment Summary

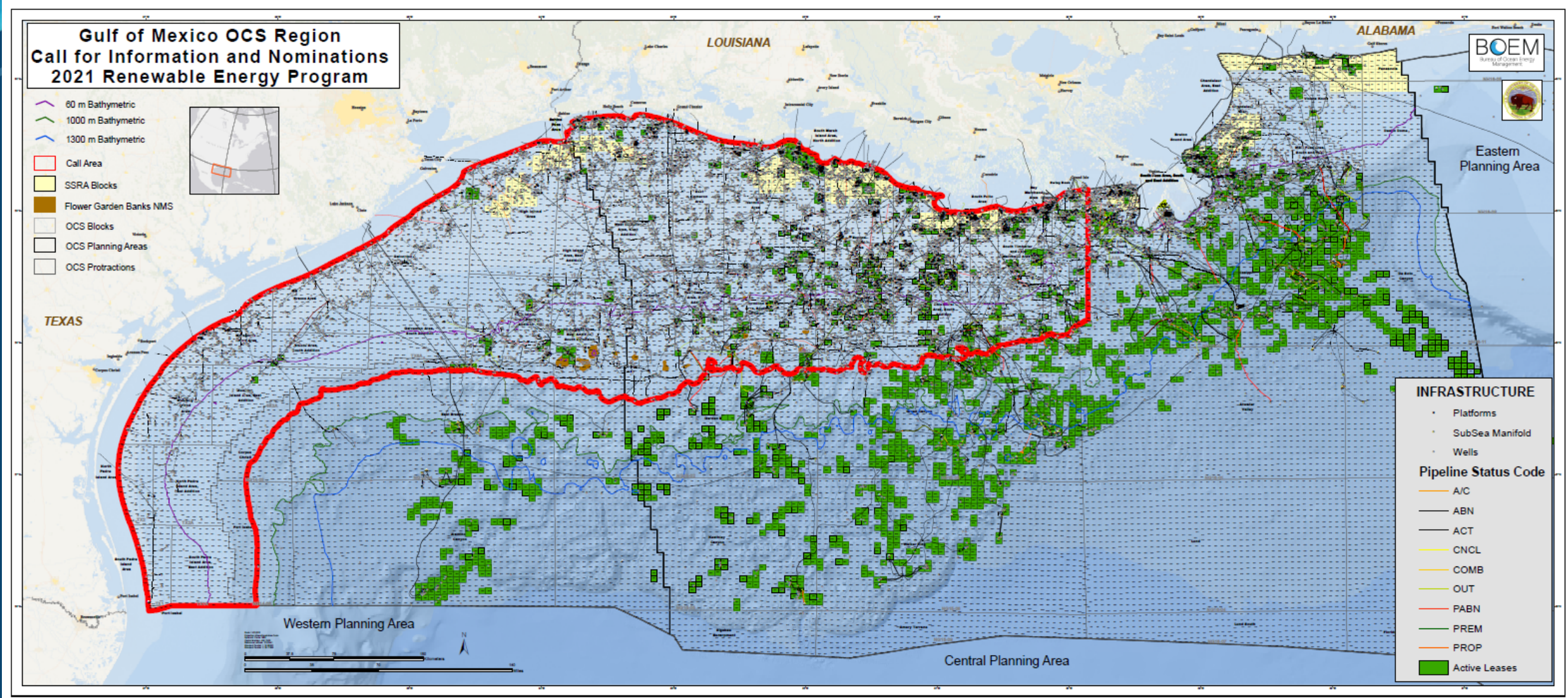
Stakeholder Comments	Number of comments
Private Citizens	10
State Agencies (LA)	2
Federal Agencies	2
Universities	1
Non-governmental Organizations (NGOs)	14
Industry	10
Total Comments	39

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>

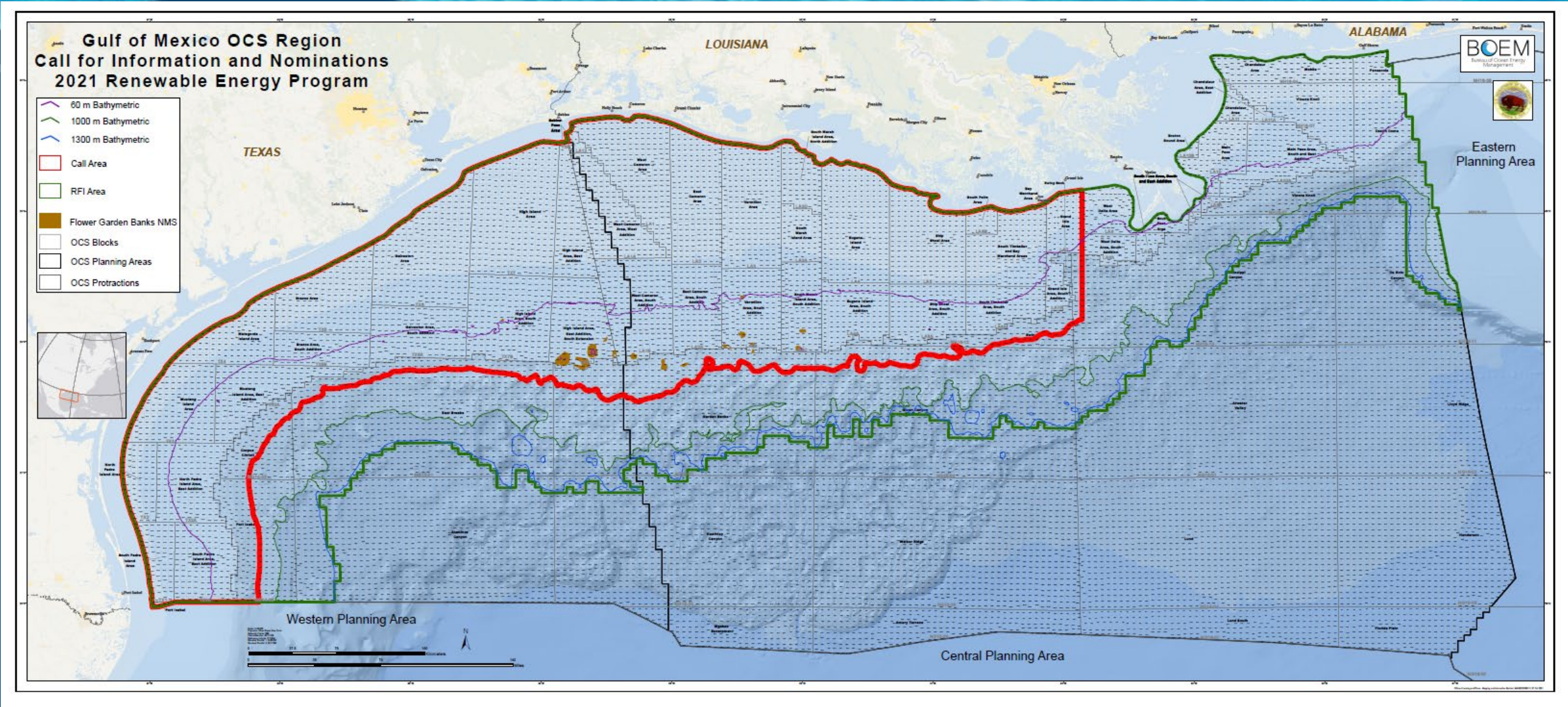
Call for Information Area



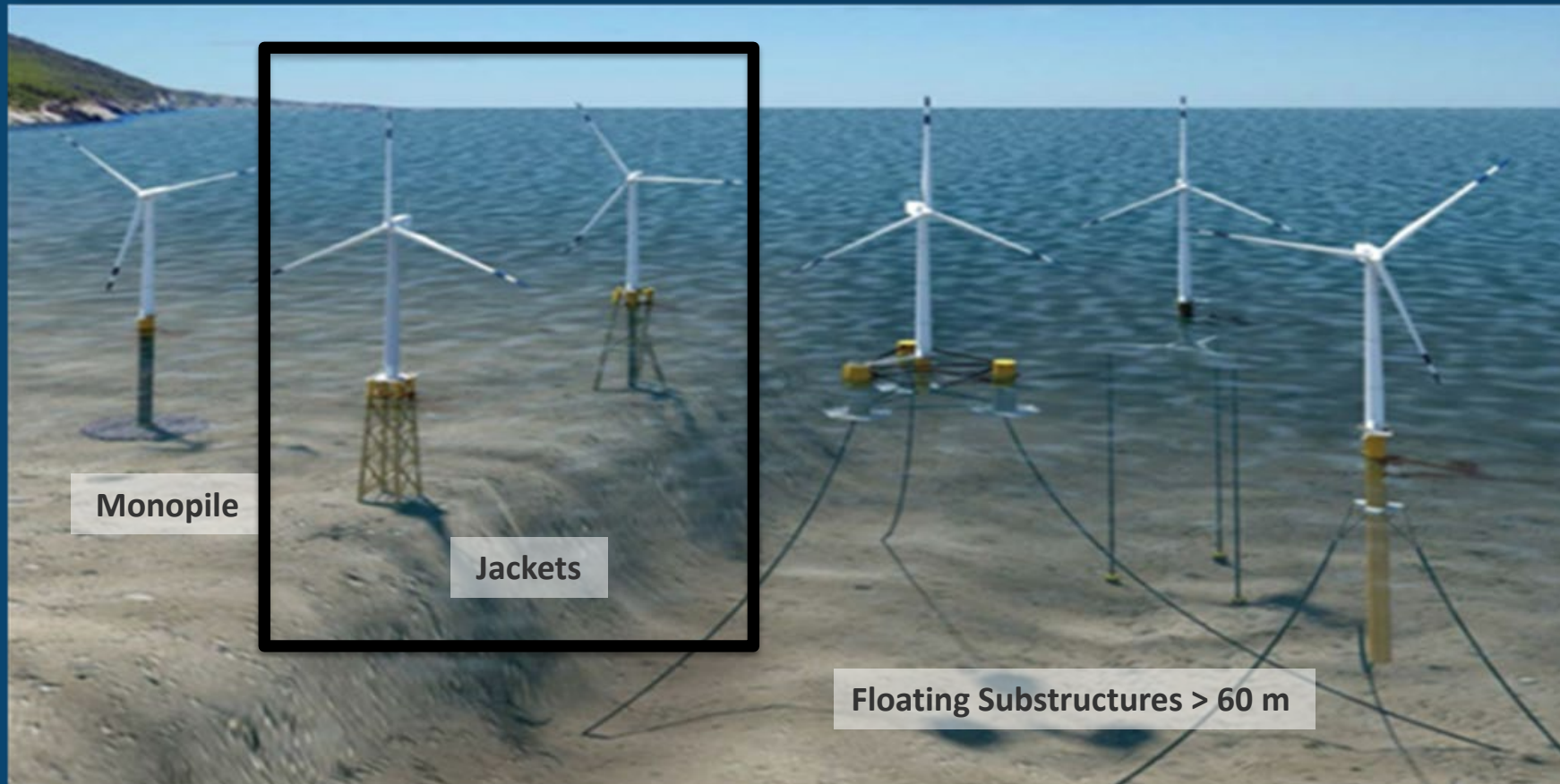
Call for Information Area with Infrastructure



RFI & Call Combined Map



Offshore Wind Turbine Structures

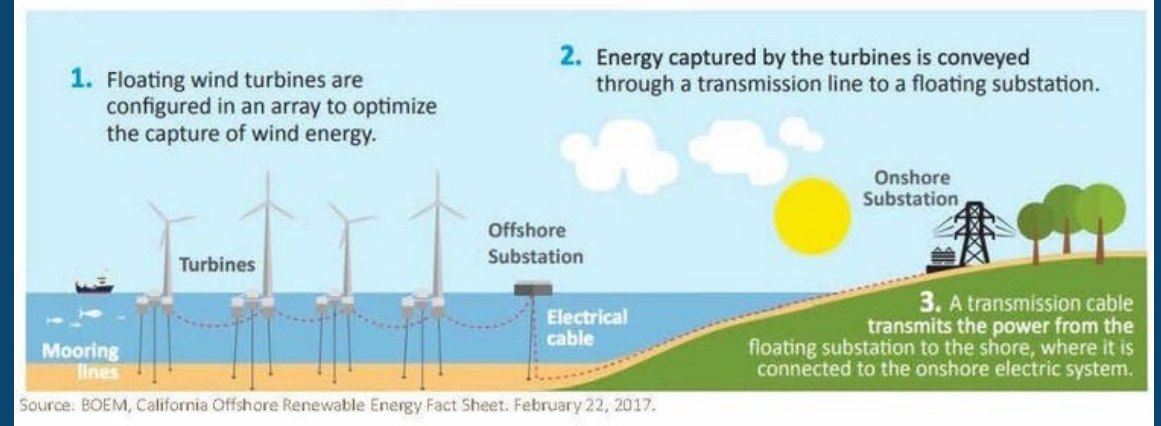
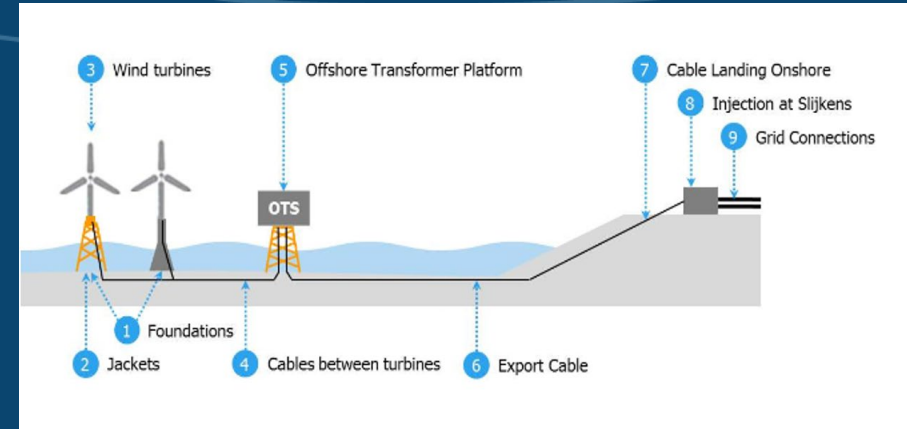


Monopile

Jackets

Floating Substructures > 60 m

Typical Windfarm Layout



Source: BOEM, California Offshore Renewable Energy Fact Sheet, February 22, 2017.

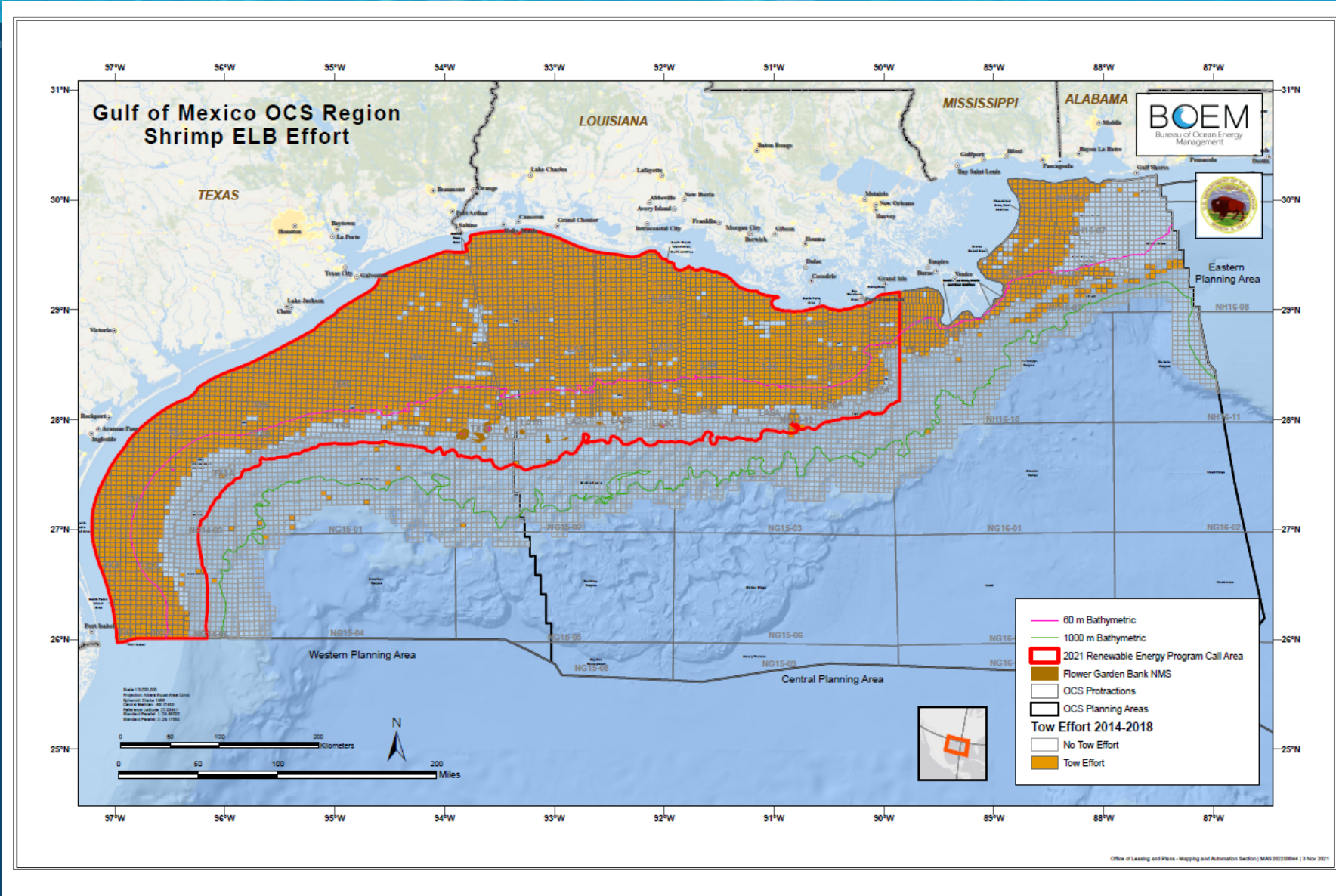
Stakeholder Engagement Milestones

Stakeholder Engagement	Date
State of Louisiana	Dec 2020-Oct 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
Tribal Informational Meeting	June 10, 2021
BOEM GOM Task Force Meeting	June 15, 2021
LA Wind Week	June 21-25, 2021

Stakeholder Engagement	Date
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
Coasts, Oceans, Ports, and Rivers Institute (COPRI)	October 28, 2021
National Academy of Engineering	November 5, 2021
SERPPAS Energy Working Group Meeting	November 10, 2021
Shrimp Advisory Panel	December 8, 2021
Fisheries Mitigation Workshop	December 15, 2021



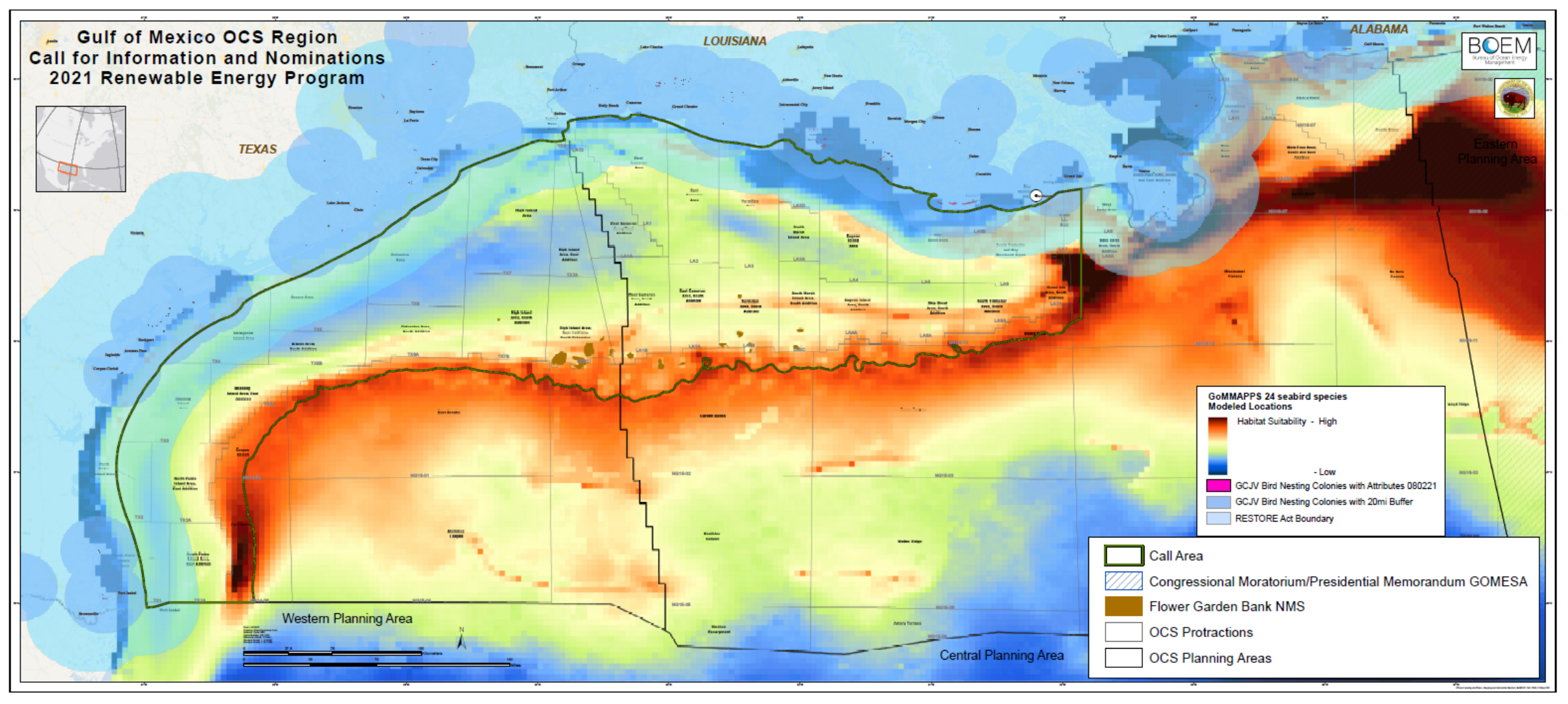
Shrimp Trawling Effort



Source: LGL Ecological Research Associates using NOAA Shrimp Fishing Effort (ELB) Data



Draft Avian Map



GOM Offshore Wind Energy Leasing Status

- **June 11, 2021:** Request of Interest (RFI) published in the Federal Register.
- **June 15, 2021:** BOEM GOM Inaugural Intergovernmental Renewable Task Force (Task Force) Meeting to present and gather information.
- **July 26, 2021:** Comment Period for the RFI Closed.
 - BOEM received 39 RFI comments.
- **November 1, 2021:** BOEM published the Call for Information and Nominations (Call) in the Federal Register. Docket Number BOEM-2021-0077
- **December 16, 2021:** Comment Period for the Call Closes
- **Next Steps:**
 - Fisheries Summit-January 19 and 20, 2022
 - Hold the 2nd Task Force Meeting, Tentative date-January 26, 2022
 - Start the Environmental Assessment on the Call Area
 - Identify Wind Energy Areas
- Stay informed about BOEM GOM activities at www.boem.gov/renewable-energy/state-activities/gulf-Mexico-activities and sign up for updates.



Frequently Asked Questions

- Can you tie up to the wind turbines?
- What is the spacing between the turbines?
- Are there no fishing zones?
- Will there be buffer areas near the turbines?
- Are the export cables buried?
- What is potential average number of turbines for potential area?
- What are the factors considered for the Wind Energy Areas?
- What is the average acreage size for the wind farms?
- Will the fishermen be compensated for their loss fishing gear?
- Stay informed about BOEM GOM activities at www.boem.gov/renewable-energy/state-activities/gulf-Mexico-activities and sign up for updates.



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.boubé@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





Bureau of Ocean Energy Management
U.S. Department of the Interior

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Tershara Matthews | Tershara.matthews@boem.gov

