



BOEM GOM Renewable Energy Update

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PLANO

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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

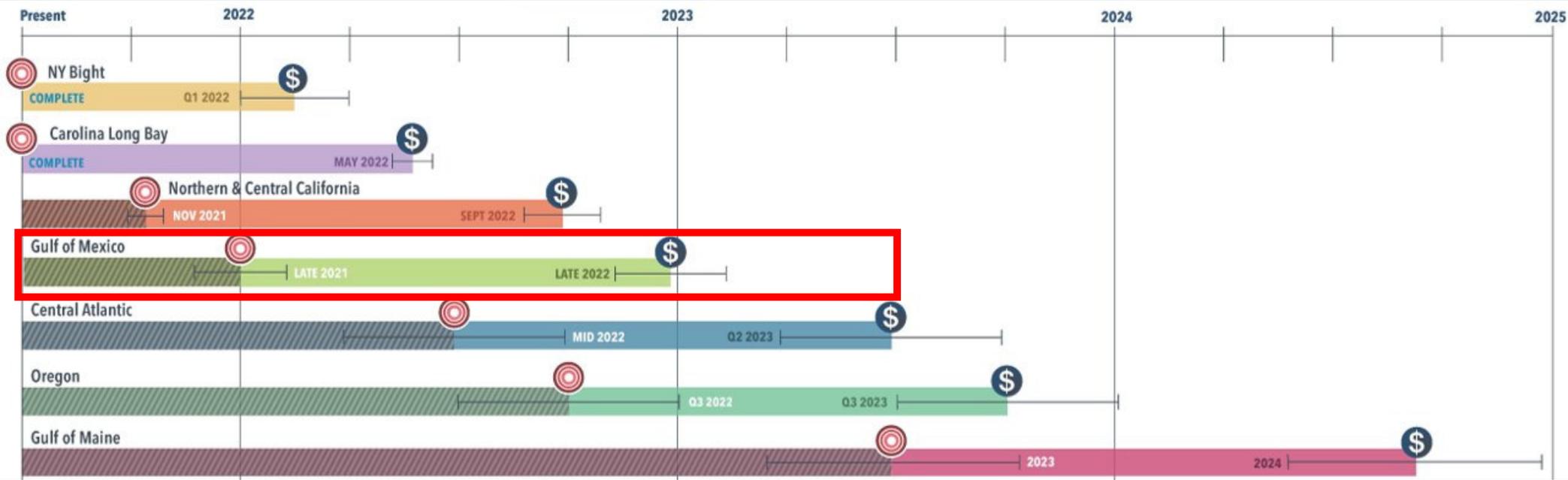
- President Biden issued **Executive Order 14008** that called for the Interior Department to identify steps to increase responsible renewable energy development on public lands and waters
- First-ever **national offshore wind goal** to deploy **30 gigawatts of offshore wind by 2030**, which would create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



Offshore Wind Leasing Path Forward for 2021-2025



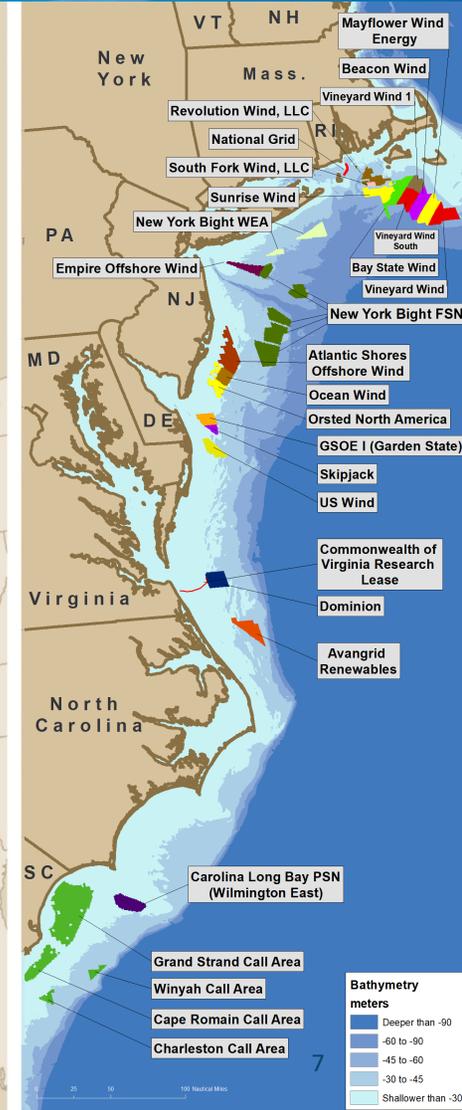
Leasing Path Forward for 2021-2025



Renewable Energy Process: Overview and Post-Lease Activities



Renewable Energy Program by the Numbers



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



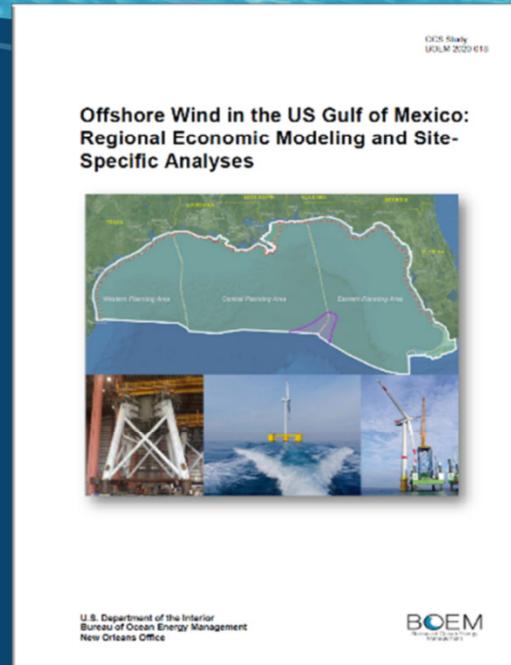
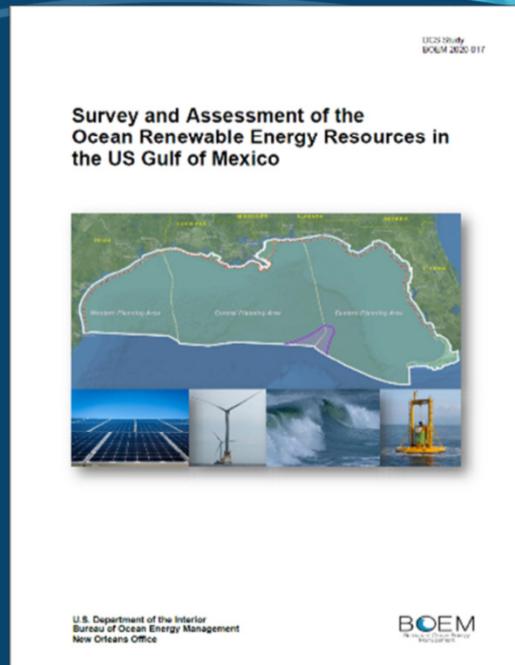
Gulf of Mexico Outer Continental Shelf Renewable Energy

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:

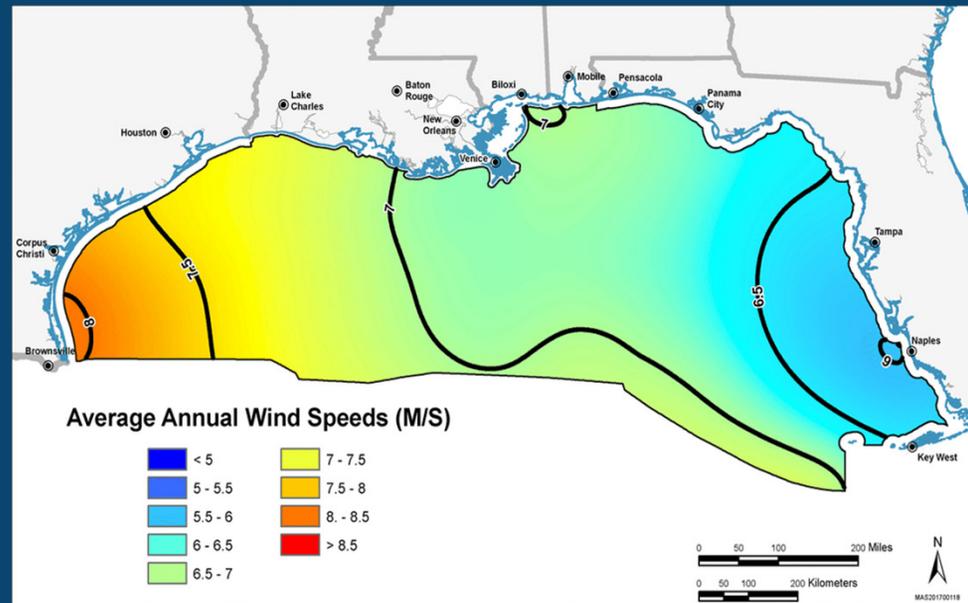
- **Mike Celata**, BOEM's GOM Regional Director
- **Rebecca Green** for initiating the project
- **Andrea Heckman** the BOEM project manager
- **Tershara Matthews**, current coordinator

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://espis.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://espis.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



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
- Task Force is neither a decision-making nor approval body



BOEM Renewable Energy Process: Overview



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



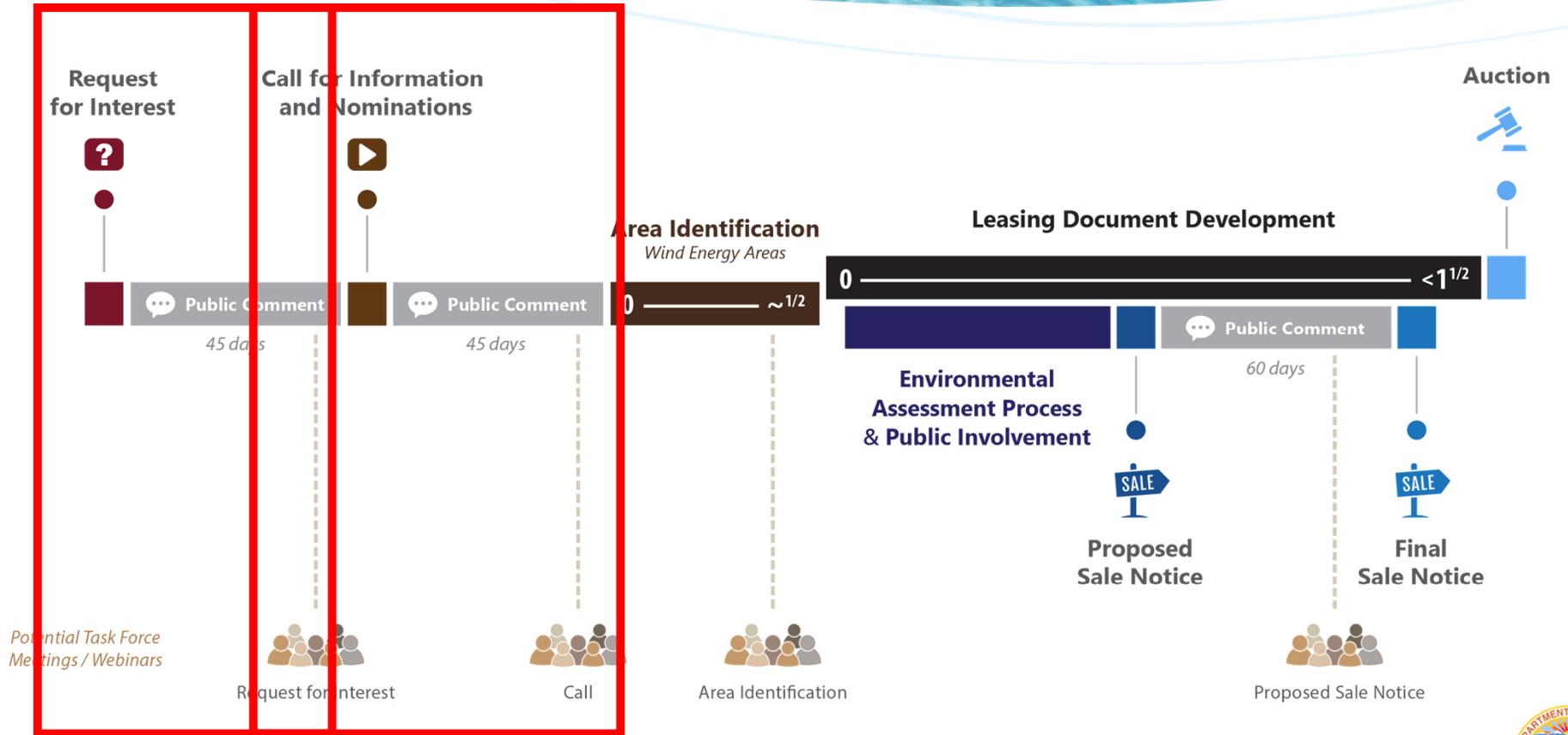
Construction & Operations

~ 2 YEARS (+25)

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

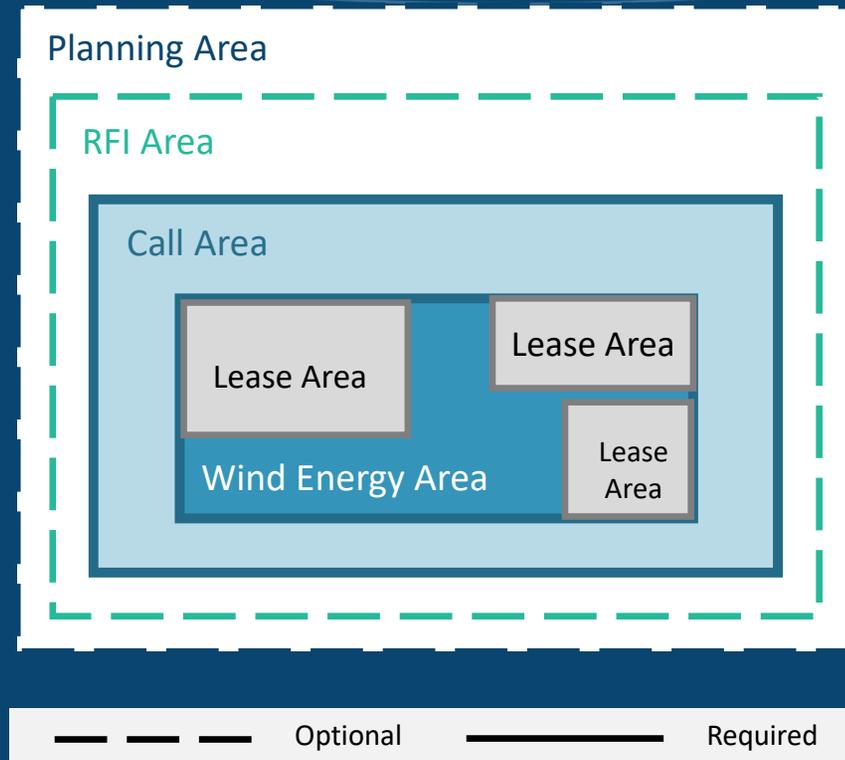


Renewable Energy Process: Focus on Pre-Lease Activities

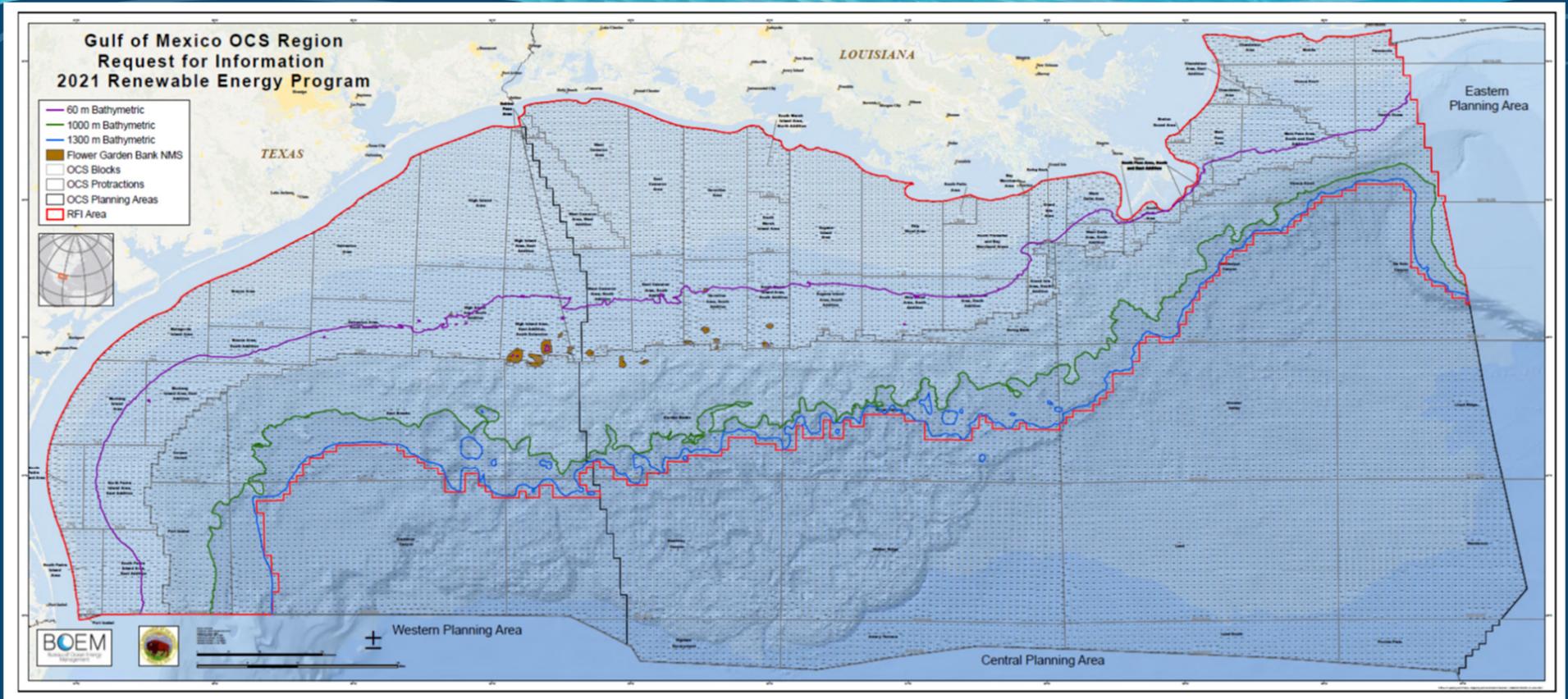


Renewable Energy Process: Area Identification

- Call Areas for special consideration
- Initial identification of areas that may be suitable
- Conditions in the Call Area
- Shed potential for sureability
- Area development level for leasing



Request for Interest (RFI) Area



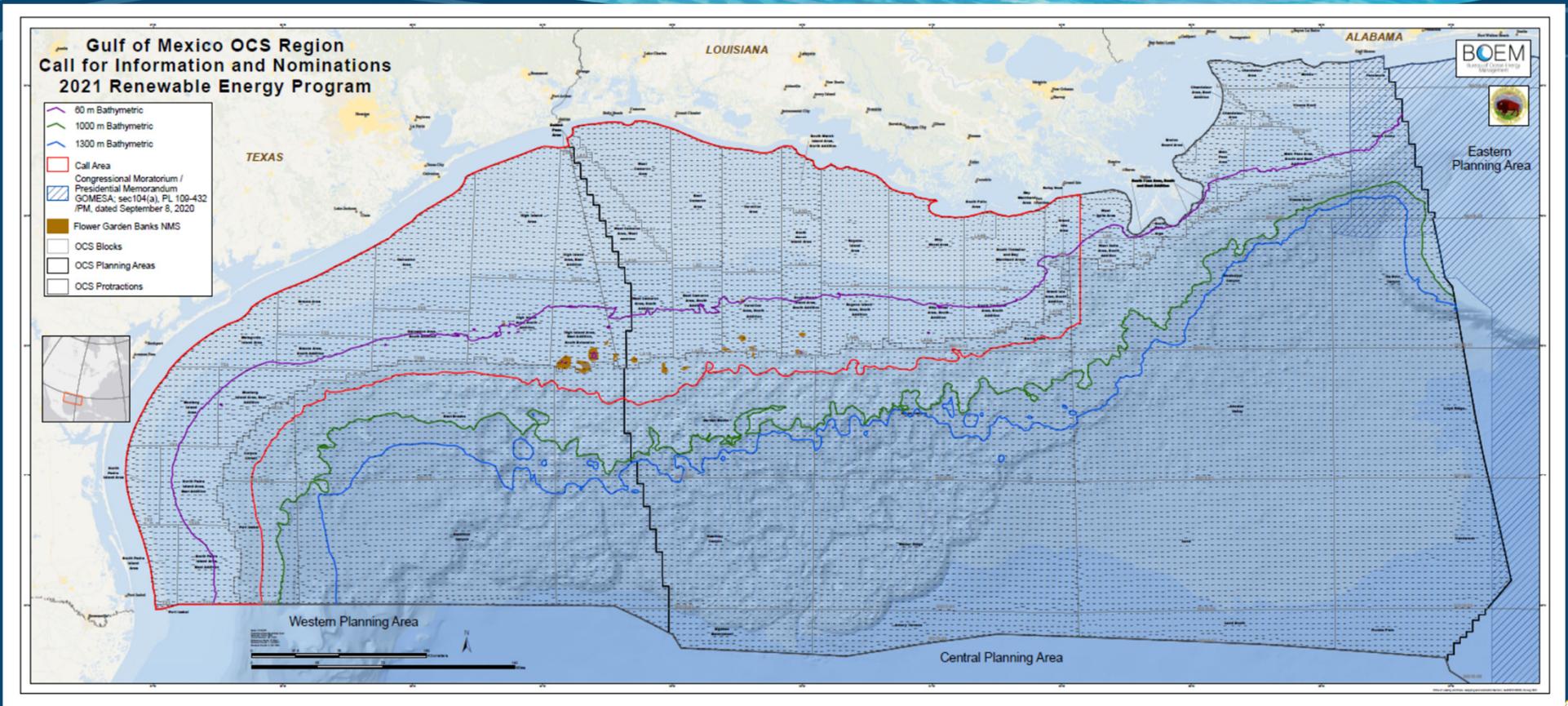
RFI Comment Summary

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

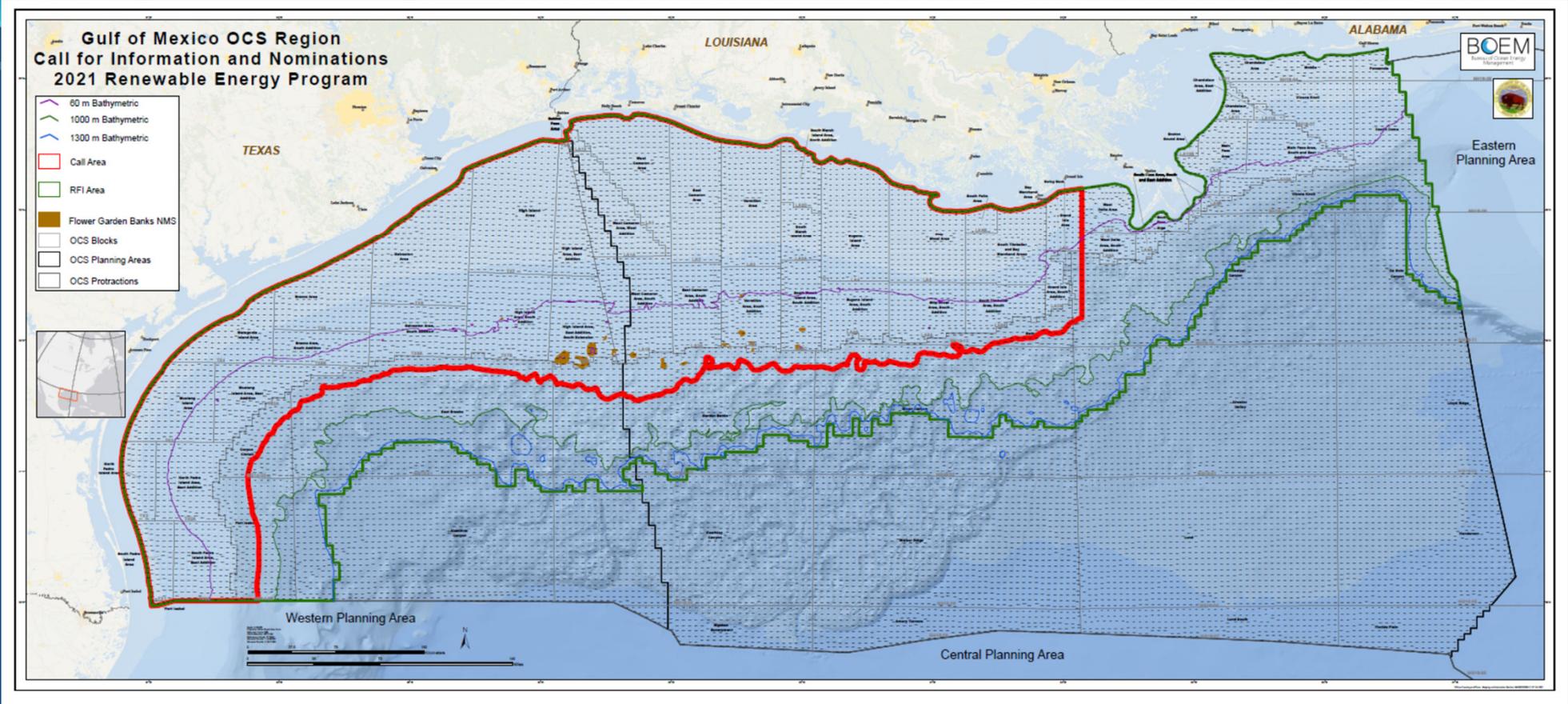


Call Comment Summary

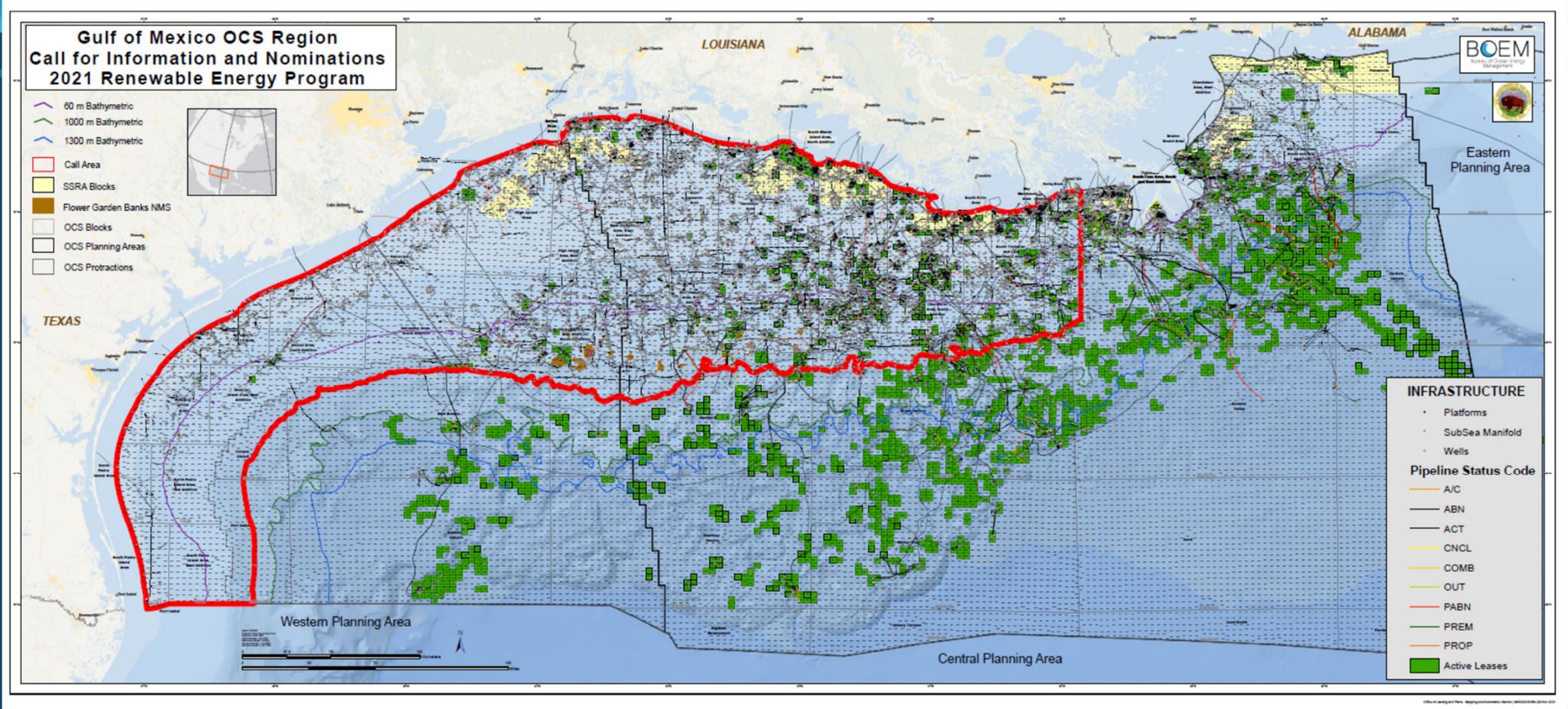
Stakeholder Comments	Number of comments
Private Citizens	10
State Agencies	1
Federal Agencies	5
Universities	0
Non-governmental Organizations (NGOs)	16
Industry	8
Total Comments	40



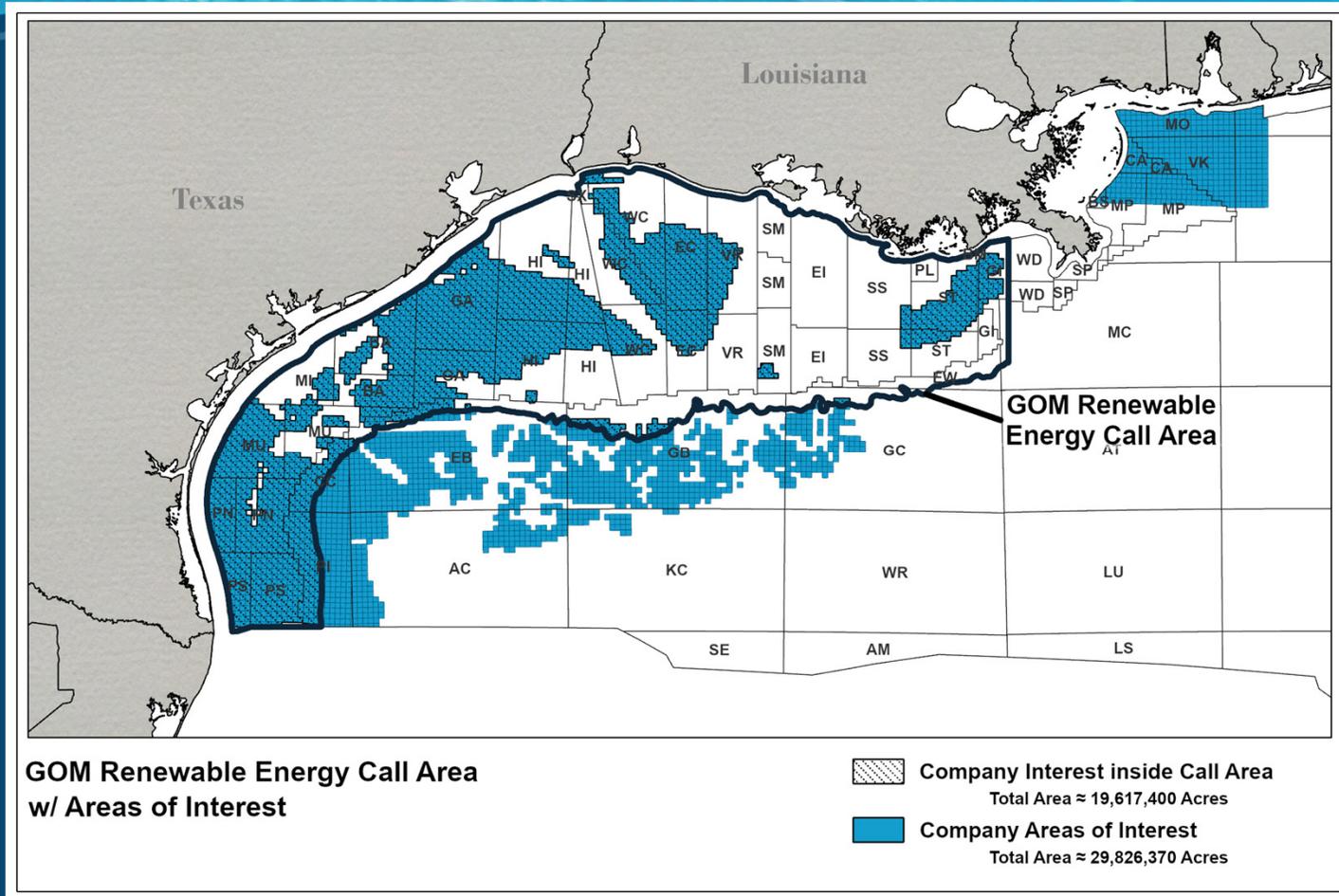
RFI & Call Combined Map



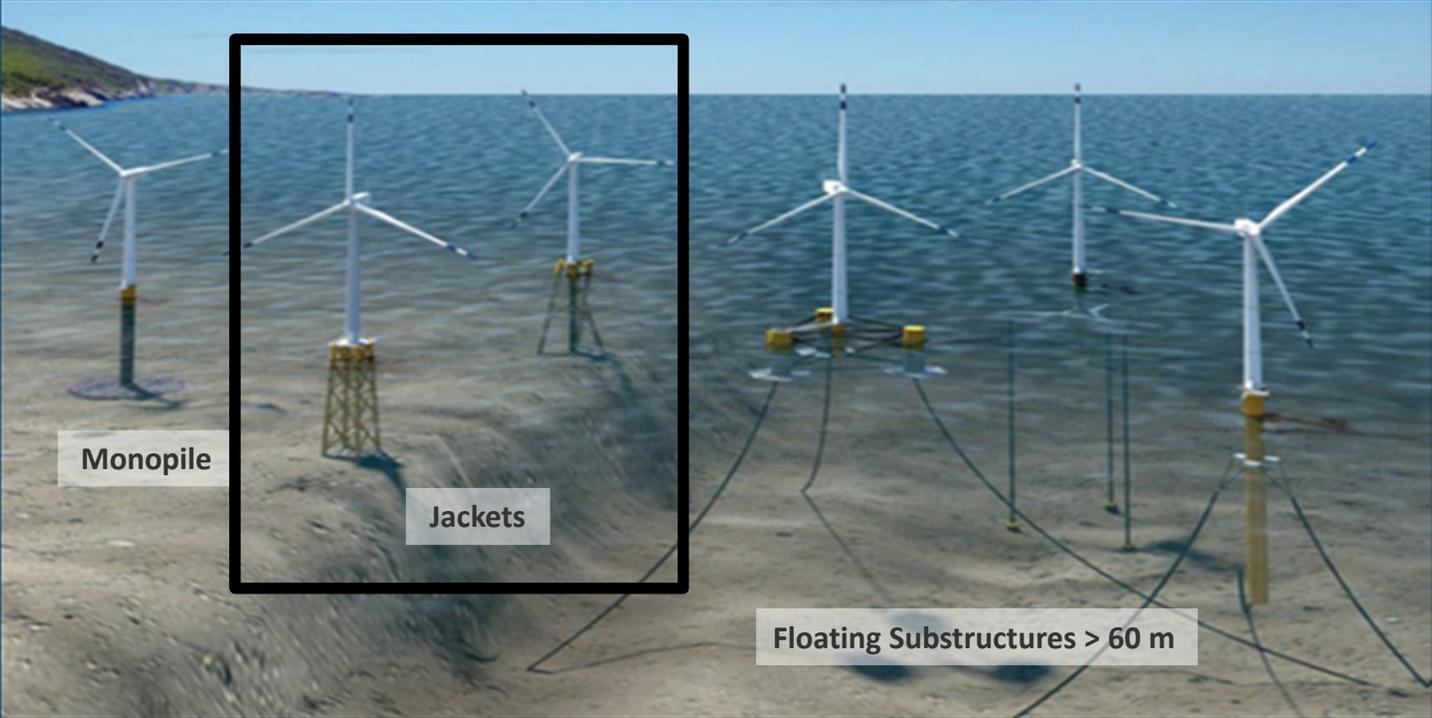
Call for Information Area with Infrastructure



Companies' Areas of Interest



Offshore Wind Turbine Structures



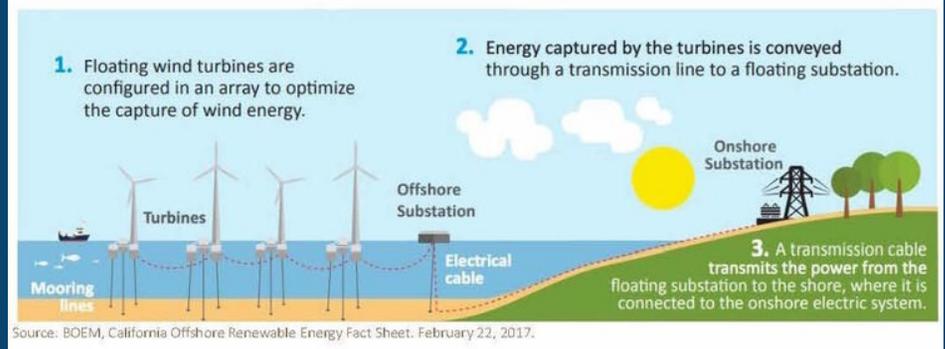
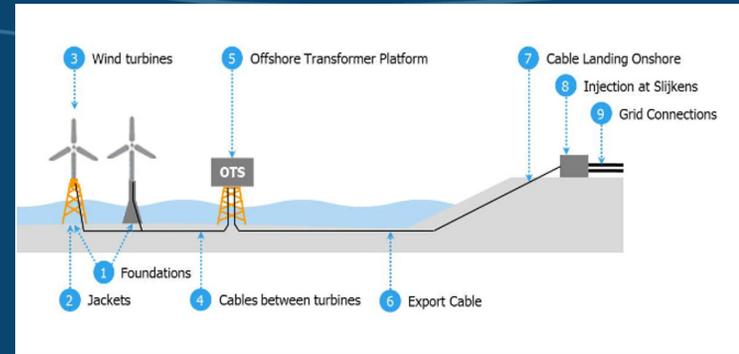
Monopile

Jackets

Floating Substructures > 60 m



Typical Windfarm Layout



Stakeholder Engagement Milestones

Stakeholder Engagement	Date
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
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

Stakeholder Engagement	Date
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
BOEM's Fisheries Summit	January 19-20, 2022
GOM Fishery Management Council	January 24, 2022
BOEM GOM 2 nd Task Force Meeting	February 2, 2022
Professional Landmen's Association NO	February 23, 2022



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 Closed.
 - BOEM received 40 Call comments.
- **January 19 and 20, 2022:** Fisheries Summit
- **February 2, 2022:** Held 2nd GOM Intergovernmental Task Force Meeting
- **Next Steps:**
 - Environmental Assessment on the Call Area-Scoping Comment Period Closed on February 9, 2022
 - Identify Wind Energy Areas
 - Proposed Sale Notice



Team Members

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