



BOEM Bureau of
Ocean Energy Management

**Energy, Transition, & Sustainability:
*Making It All Work Together***

IMAGE Conference 2023

Angie Guidry

BOEM Mission Statement

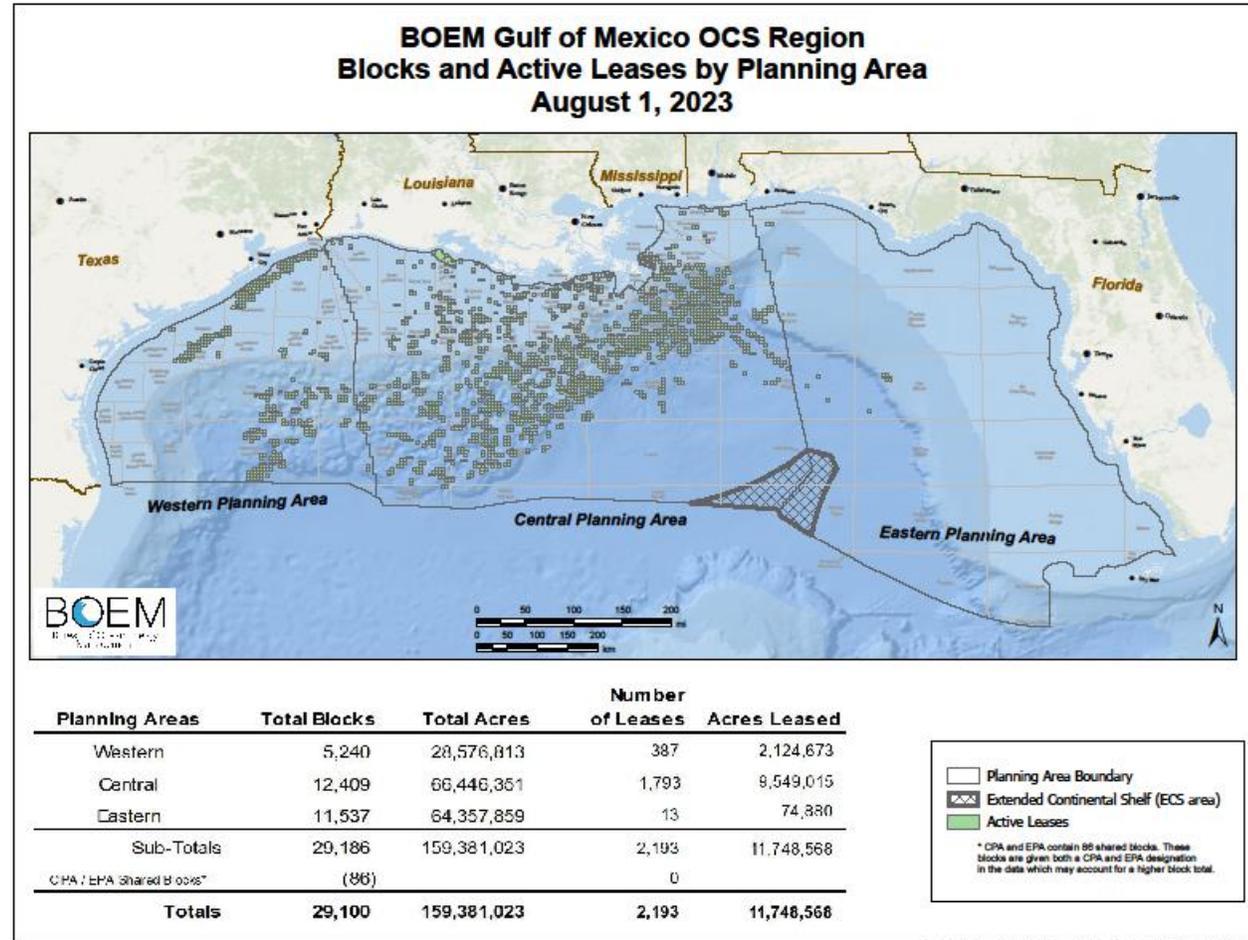
To manage development of U.S. Outer Continental Shelf energy and mineral resources in an environmentally and economically responsible way.





The Gulf Of Mexico Is An Energy Basin

Active Oil & Gas Leases in the U.S. Gulf of Mexico





Gulf Of Mexico Oil & Gas Industry Landscape

2721 Qualified Individuals & Businesses
282 Record Title Owners
168 Operating Rights Owners
450 Active Lessees
87 Active Operators



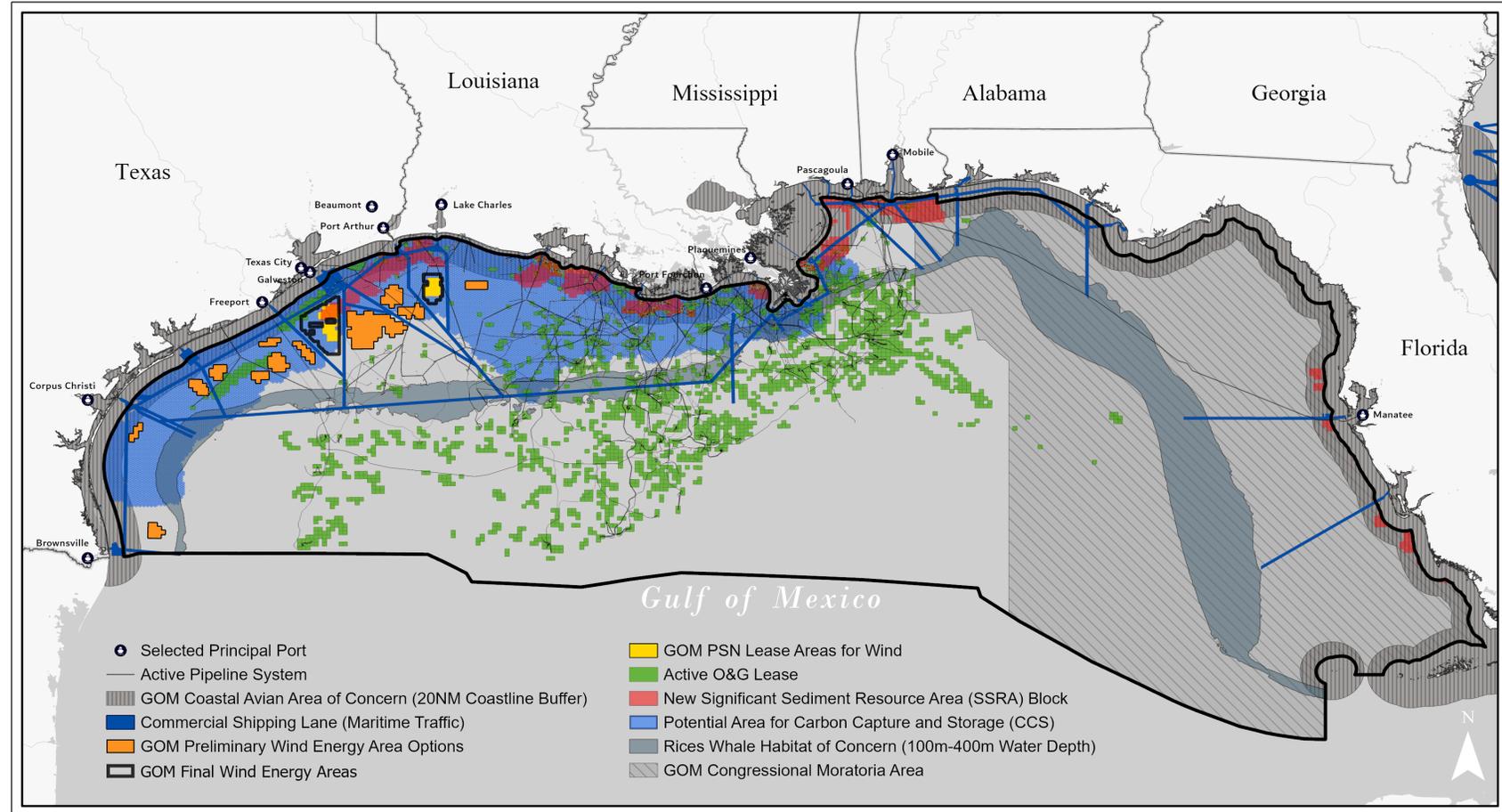
The Gulf Is Also A Multiple Use Area

BOEM's Authorities & Responsibilities:

- Conventional Energy
- Marine Minerals
- *Renewable Energy*
- *Carbon Capture & Sequestration*

Other Users & Resources:

- Fisheries
- Ecosystem Services
- Transportation / Shipping
- Recreation
- Defense / Security





Gulf Of Mexico Sale 259 - March 29, 2023

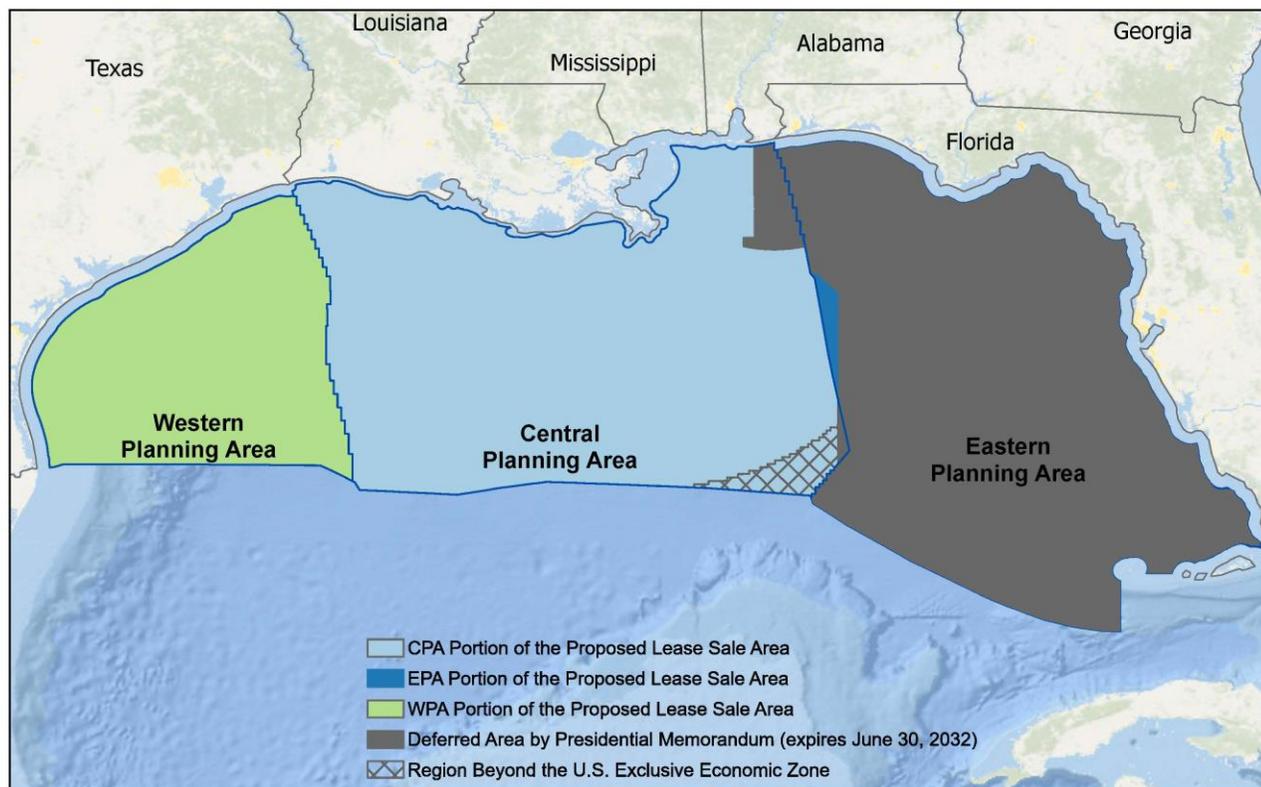
Lease Sale 259

Number of Bids Received:	313
Companies submitting bids:	32
Sum of High Bids totaled:	\$263.8 M
Number of Leases Issued	299
Acres Leased	1,599,448

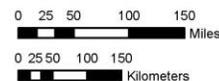


Upcoming U.S. Oil & Gas Lease Sales

- Final Notice of Sale for Oil & Gas Lease Sale 261 (August) Lease Sale 261 must be conducted before the end of September 2023
- We are working to have the Proposed Final Program for Secretarial approved by September 30, 2023
- BOEM has complied with the Inflation Reduction Act regarding Lease Sales 257, 258, 259, and 261



Scale 1:610,000
Projection: Albers Equal-Area Conic
Spheroid: Clarke 1866
Central Meridian: -89.17433
Reference Latitude: 27.03441
Standard Parallel: 1: 24.89332
Standard Parallel: 2: 29.17550

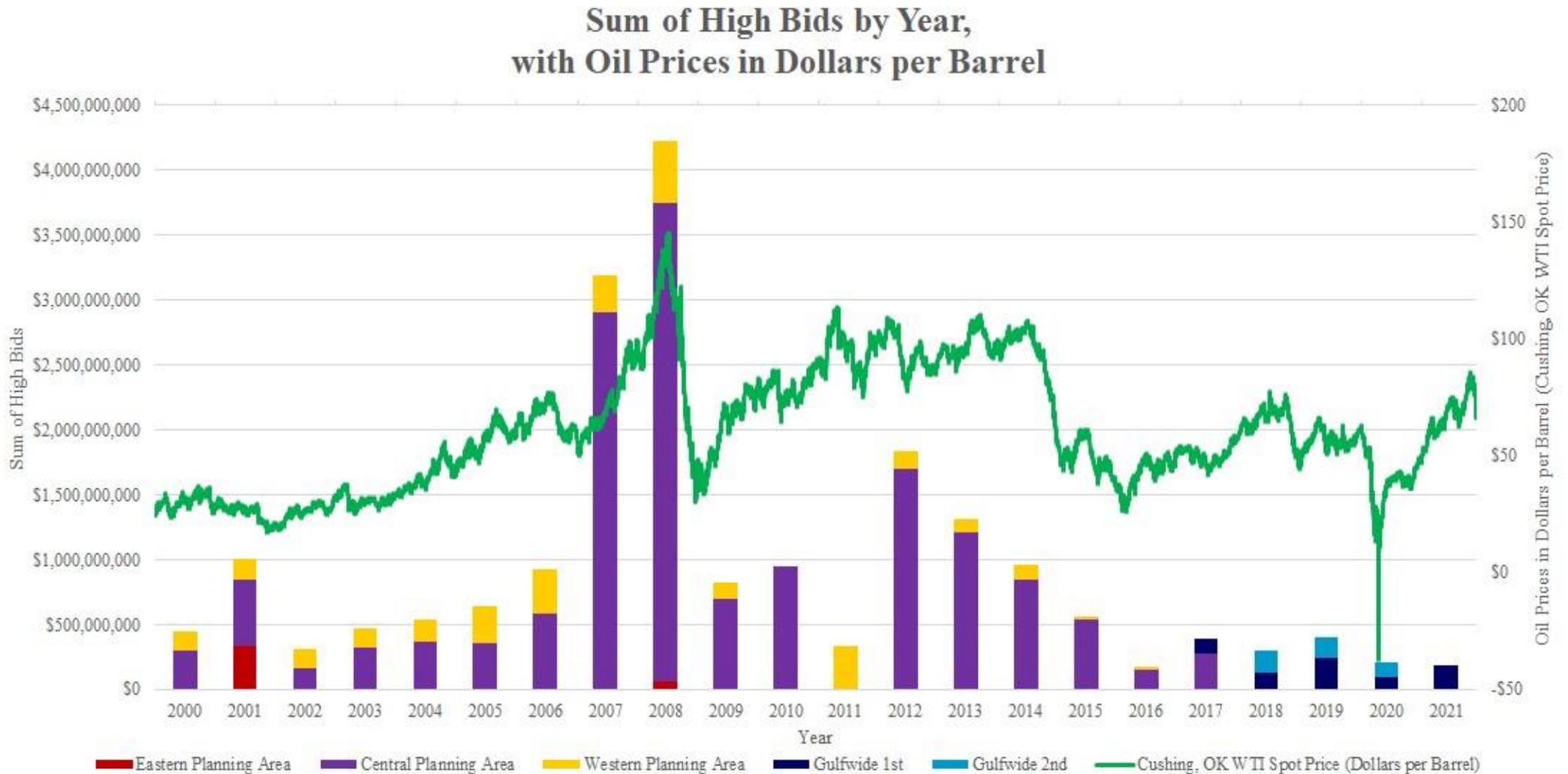


Office of Leasing and Plans - Mapping and Automation Section | MAS2023-71 | 17 November 2022





Trend - High Bids Tied To The Price Of Oil

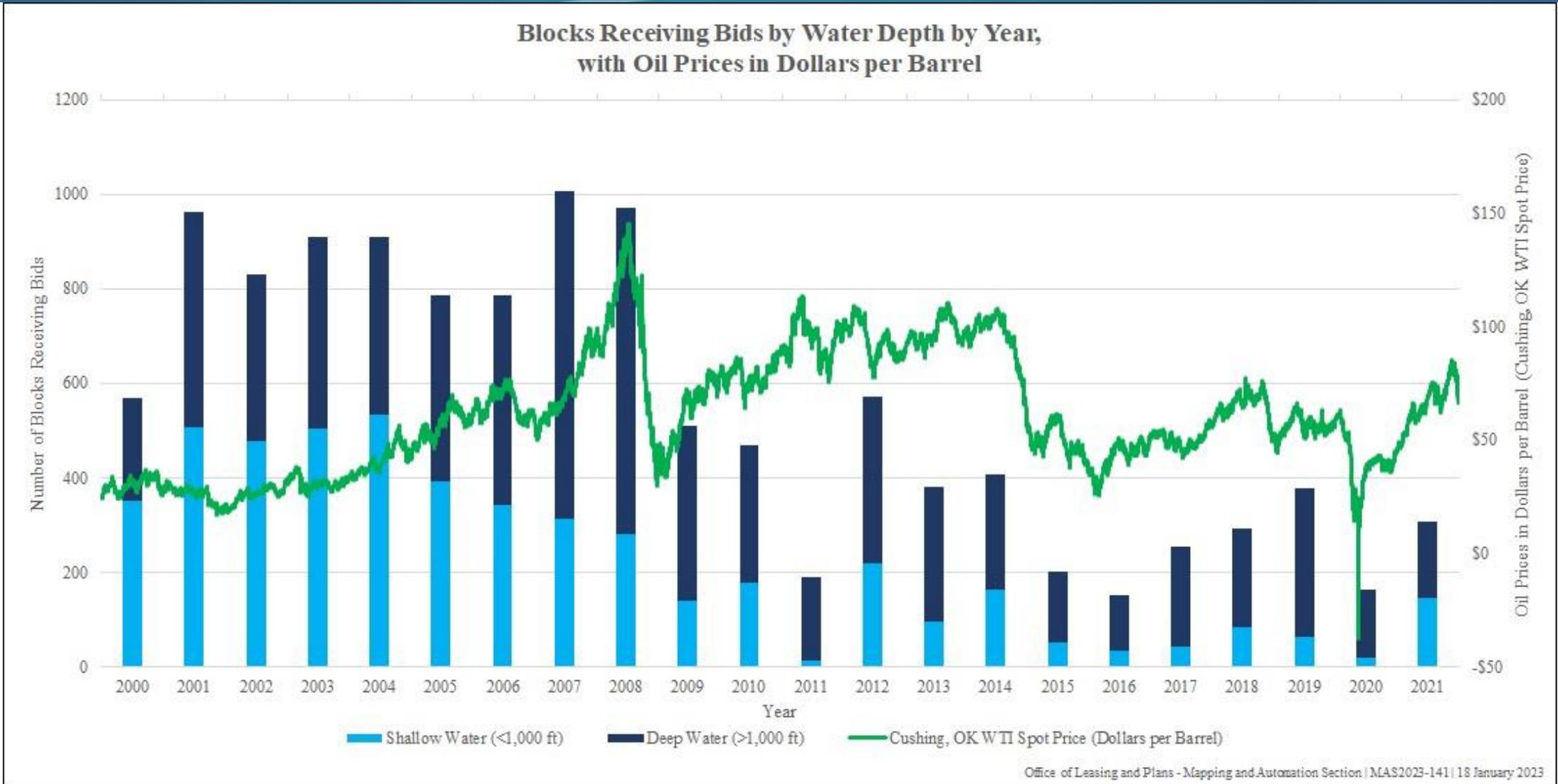


Office of Leasing and Plans - Mapping and Automation Section | MAS2023-141 | 18 January 2023





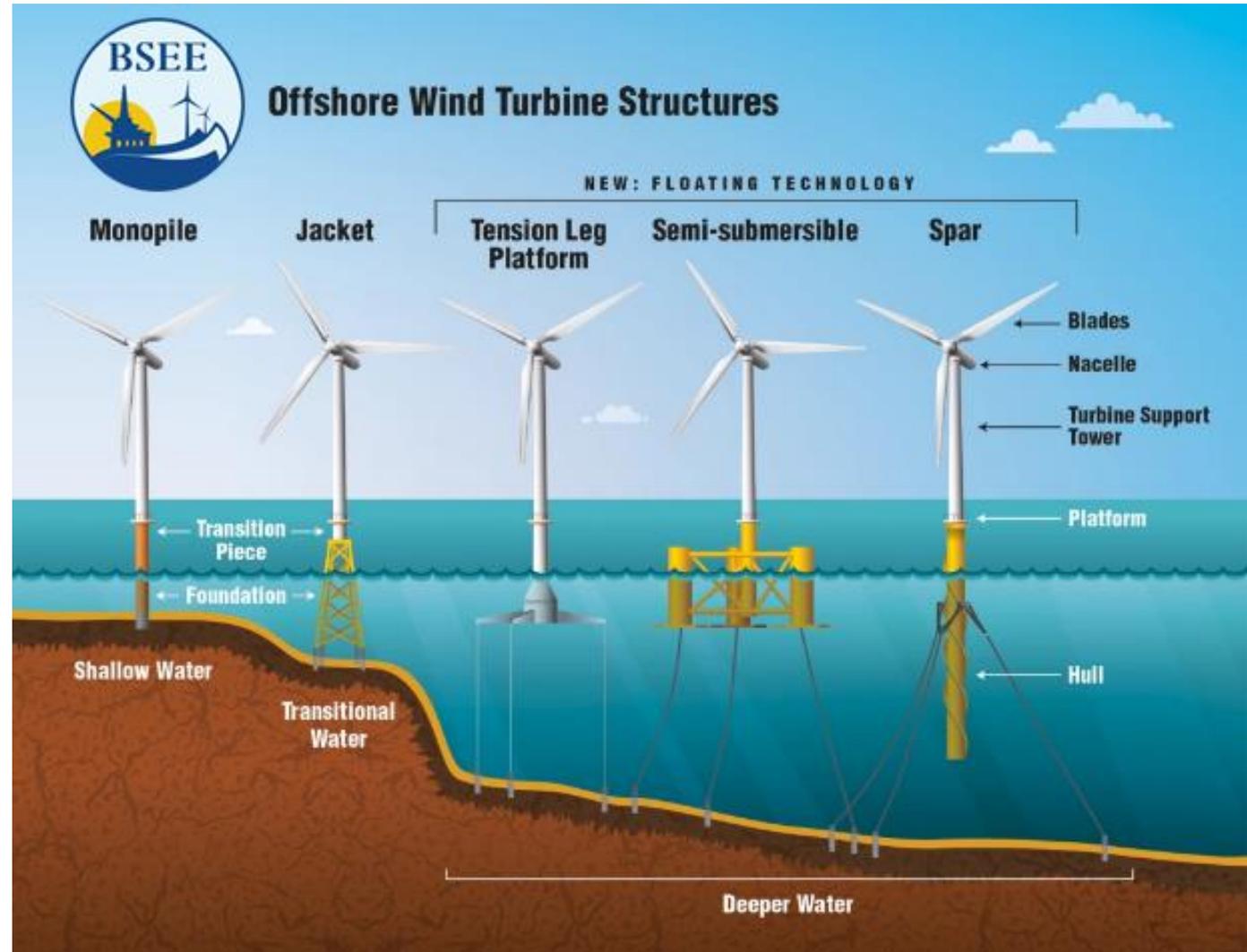
Trend - Transition From Shallow Water To Deepwater





Gulf Of Mexico Renewable Energy

Advantages: Proximity to oil & gas supply chain & the leveraging of existing infrastructure





Gulf Of Mexico Renewable Energy



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)

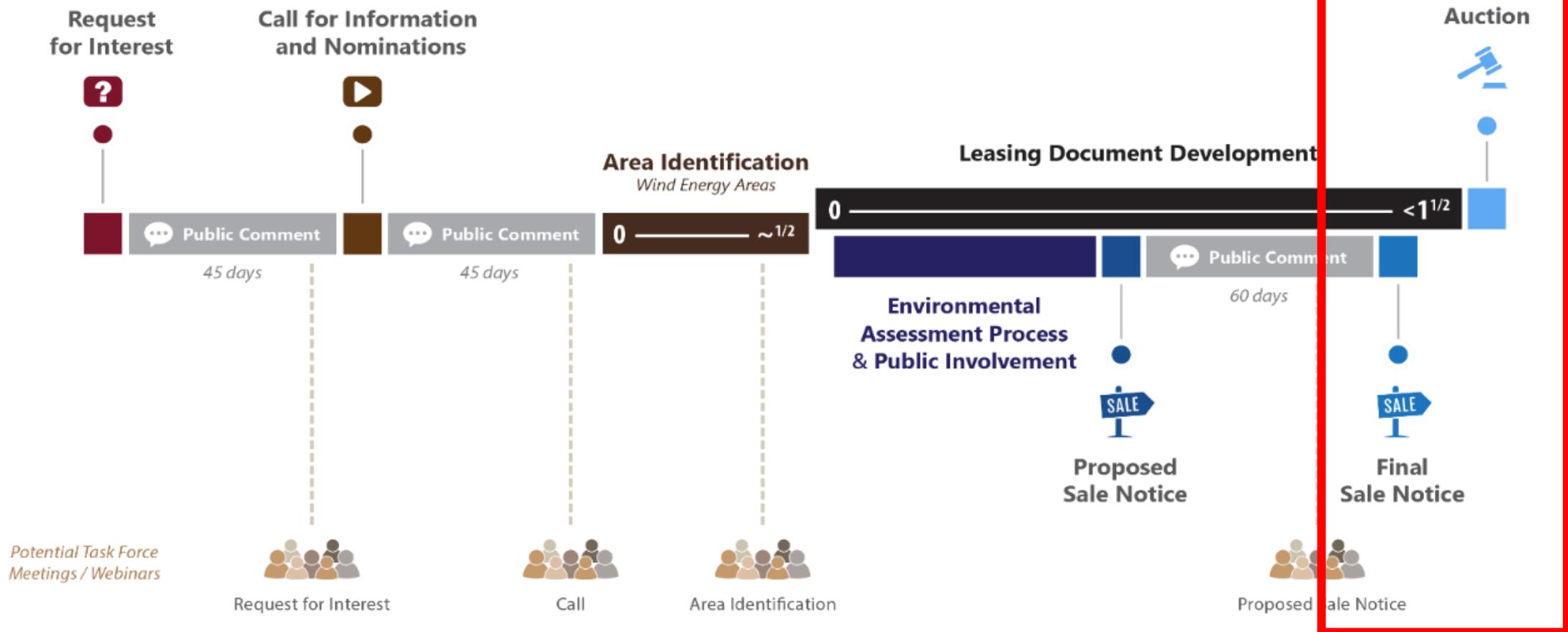
- Construction & Operations Plan
- Facility Design Report and Fabrication & Installation Report
- Decommissioning
- Environmental and Technical Reviews





Around The Corner!

Sale: August 29, 2023





Lease Sale Areas

Galveston I: 102,480 acres

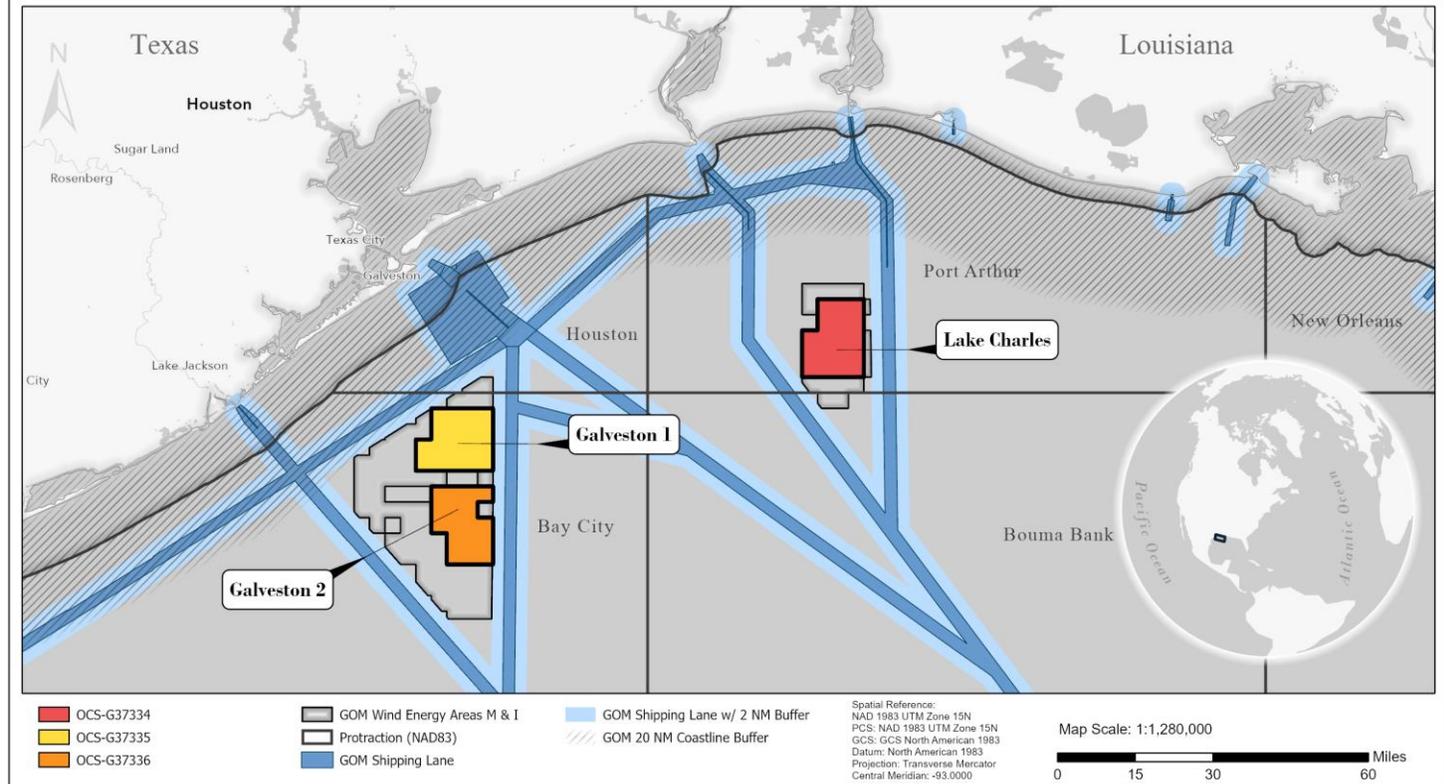
Galveston II: 96,786 acres

Lake Charles: 102,480 acres

Rationale for Lease Sale Areas:

- Proximity to Shore
- Less than 10% Moderate-High Shrimping
- Reduced Multiple Use Conflicts
- Potential to power 1.3 million homes
- And more.....

GOM Proposed Sale Notice Wind Energy Lease Areas



PRE-DECISIONAL AND DELIBERATIVE





Marine Minerals Program

Facilitate Access to sediment for Federal, State, & local agencies

Identify & Evaluate sediment resources

Manage Multiple-use Conflicts (e.g., pipelines, telecom cables, navigation, & fisheries)

Supports Research to inform decision-making & manage risk

Provide for Competitive & Noncompetitive Leasing

Critical for:

- Emergency Response
- Coastal Resilience & Restoration
- Onshore Infrastructure
- Reliable/secure Domestic Sources of Critical Minerals
- Local Economies & Tourism





Marine Minerals Program

2010



2013

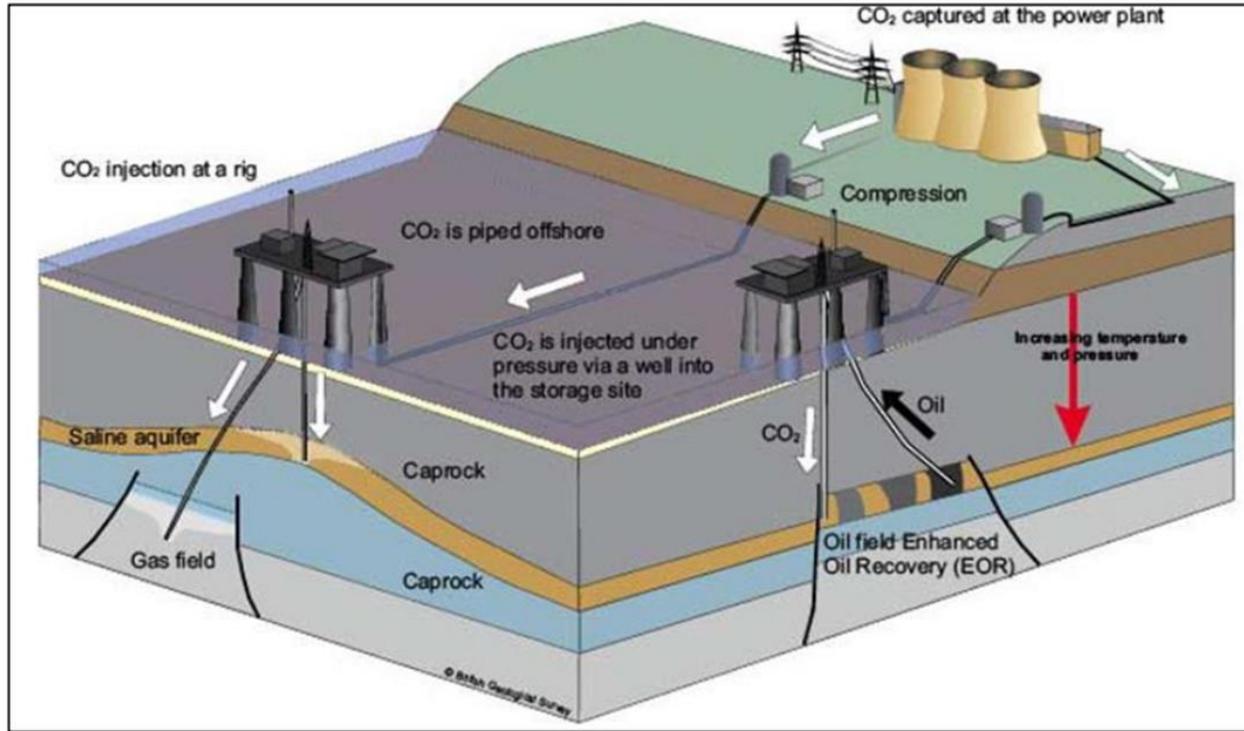


Pelican Island, Louisiana Dune and Marsh Restoration





Carbon Sequestration – Bipartisan Infrastructure Law (BIL)



November 15, 2021

Authorizes the Secretary of the Interior to...

Grant a lease, easement or right-of-way to:
“provide for, support, or are directly related to the injection of a carbon dioxide stream into sub-seabed geologic formations for the purpose of long-term carbon sequestration.”

Rule Making In Progress!

Figure 1-1. Schematic of offshore injection for CO₂ EOR and GS
Source: The Scottish Government, Scottish Centre for Carbon Storage 2009



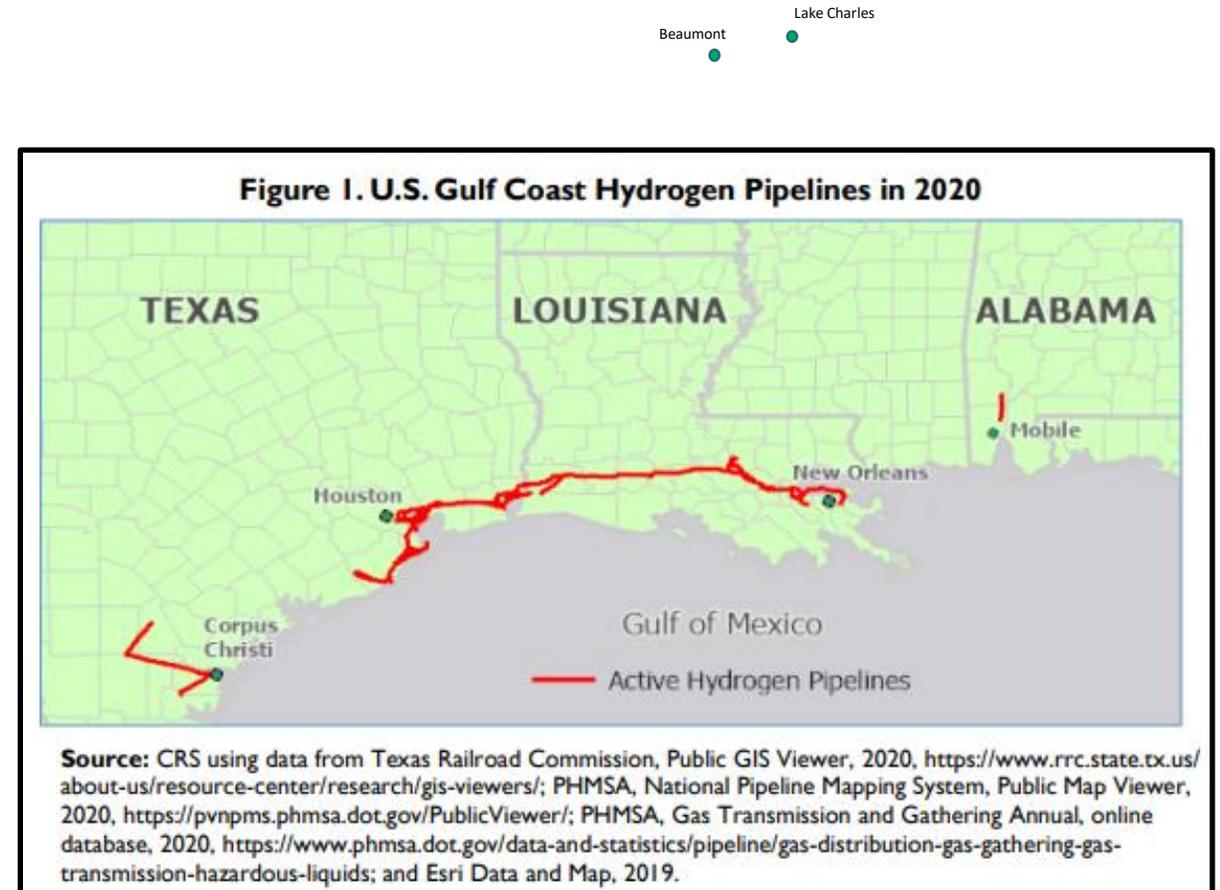
Emerging Technologies, Opportunities and Uses

- BOEM has been following what is happening internationally related to emerging technologies, opportunities, and uses of the continental shelf, including the production of hydrogen
- BOEM plans to increase its knowledge of hydrogen through engagement and research
- The Gulf of Mexico is likely uniquely positioned to develop and implement the production and the use of hydrogen

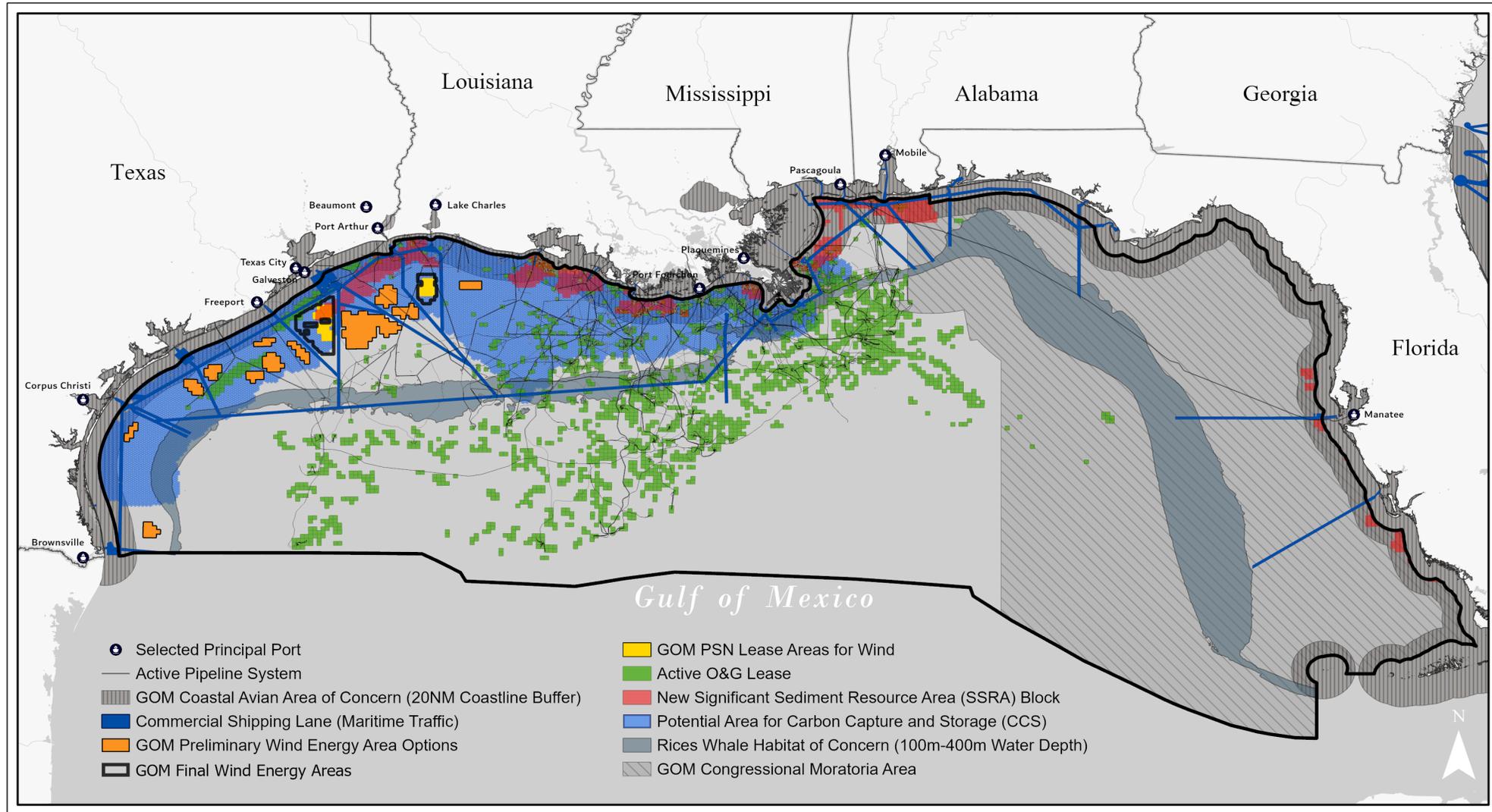


Hydrogen Potential

- Future hydrogen hubs onshore in Louisiana and Texas
 - Active pipelines on Gulf Coast already in-place
- Promoting hydrogen and wind workforce and supply chain development by offering an up to 20% bidding credit
 - From GOM Wind 1 PSN “the development of a supply chain supporting the manufacture of offshore wind facility components that could be used to generate hydrogen” *green hydrogen
- Potential for blending hydrogen into an already producing natural gas pipelines system
 - Likely the most economic method in the future but presents its own challenges



The Bottomline... The Gulf Is A Multiple Use Area



How Do We Address This Multiple Use In Terms of Sustainability ?

Acknowledge & Accept: *Social, Economic, Environmental, Tribal, & International Components*

Recognize & Engage Ocean Users: *All Stakeholders, Tribes, & Partners*

Collaboration: *the Highest Level of Partnership*

Accept: *Change & Transition are Occurring – i.e., Energy Transition*

Build Upon What We Already Know: *Lessons from the Oil & Gas Industry*

Use Best Available Information & Knowledge: *Social, Economic, Tribal, & Environmental*



To Do this We Must

Use Adaptive Management: *Willing to Adapt & Adjust as We Learn*

Map the Different Activities: *Now & for the Future using State-of-the-Art Tools - Modeling; Geographic Information Systems, Artificial Intelligence*

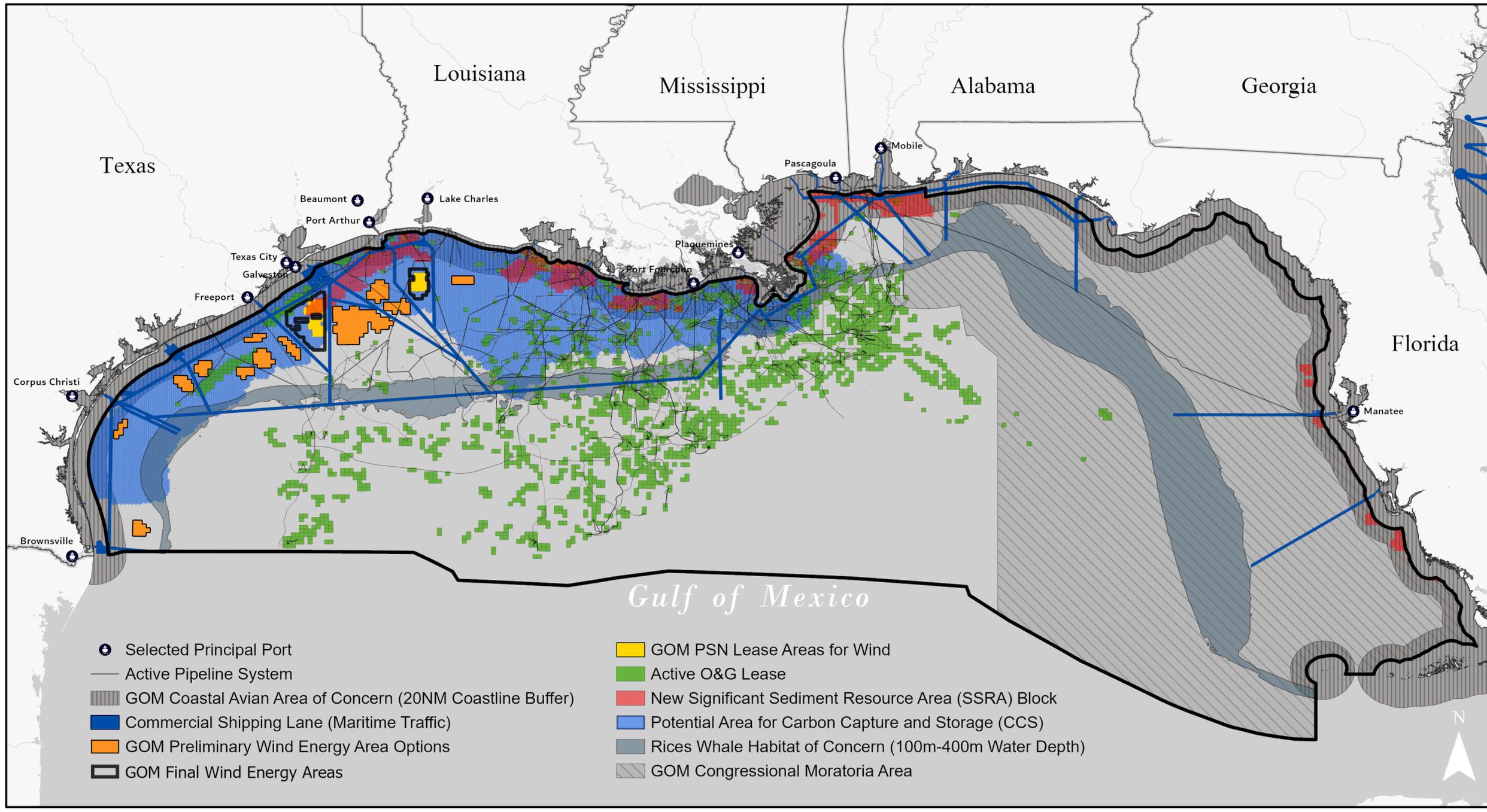
Anticipate, Seek Out, & Address: *Cause & Effect Relationships between Activities; Distinct & Cumulative Impacts; Mitigation Actions*

Ecosystem-Based Approach to Management: *Use the Best Information Pertaining to Ecological, Socioeconomic, & Human Environment.*

We Do Not Manage the Ecosystem;

We Manage Our Activities in the Ecosystem





Texas

Louisiana

Mississippi

Alabama

Georgia

Florida

Gulf of Mexico

⊕ Selected Principal Port

— Active Pipeline System

▨ GOM Coastal Avian Area of Concern (20NM Coastline Buffer)

▬ Commercial Shipping Lane (Maritime Traffic)

▭ GOM Preliminary Wind Energy Area Options

▭ GOM Final Wind Energy Areas

▭ GOM PSN Lease Areas for Wind

▭ Active O&G Lease

▭ New Significant Sediment Resource Area (SSRA) Block

▭ Potential Area for Carbon Capture and Storage (CCS)

▭ Rices Whale Habitat of Concern (100m-400m Water Depth)

▭ GOM Congressional Moratoria Area



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