



BOEM Bureau of
Ocean Energy Management

Gulf of Mexico Offshore Wind Update

NASEM Offshore Wind and Fisheries Meeting

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Chief, Leasing and Financial Responsibility Section

Presentation Outline

- Background
- GOMW-1
- GOMW-2
 - Proposed Sale Notice
 - Upcoming Outreach
 - Timeline
- Future Plans

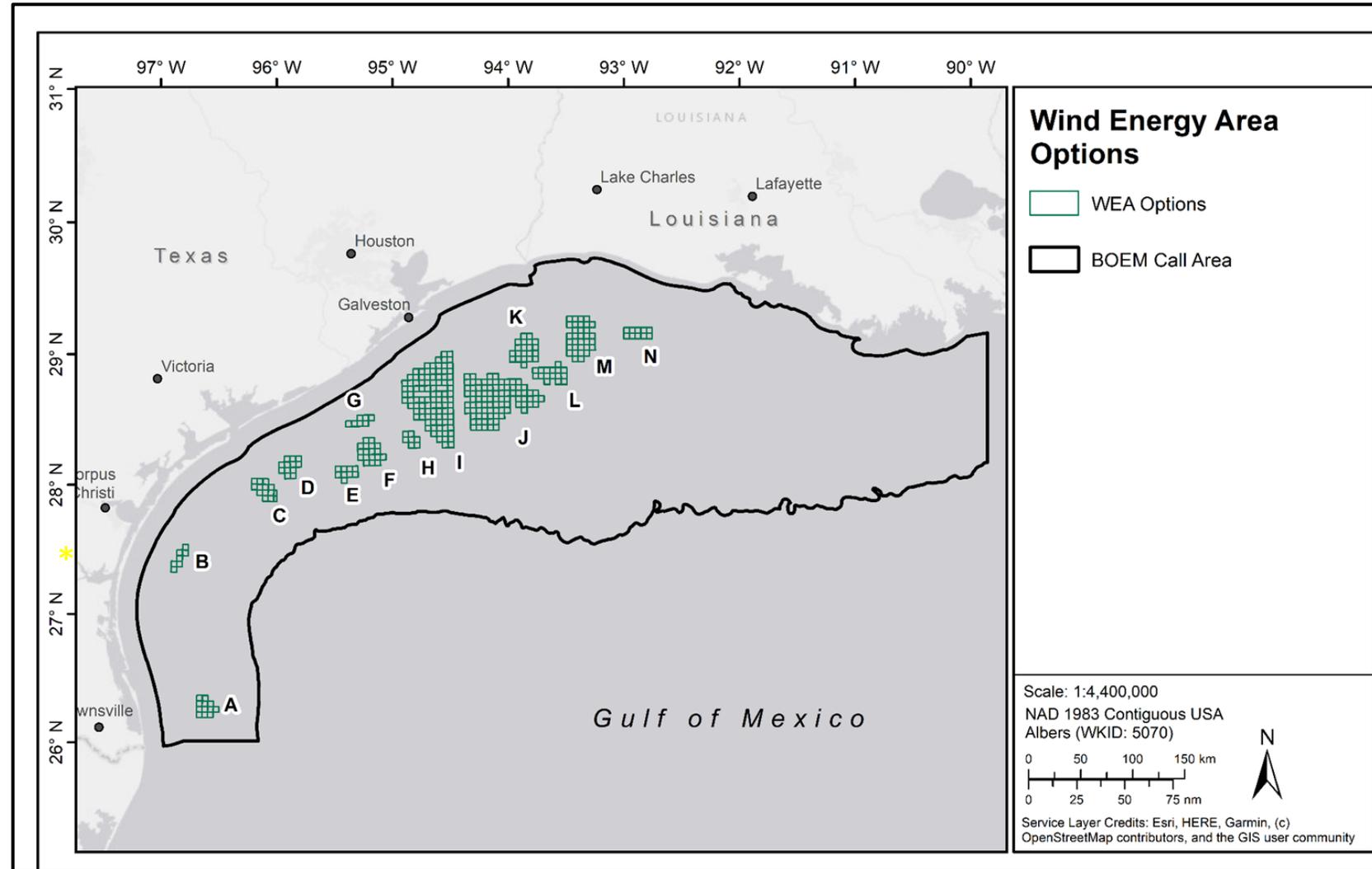


GOMW-1 Wind Energy Area Options

Through BOEM's partnership with NOAA's National Centers for Coastal Ocean Science (NCCOS) to utilize a marine spatial planning tool, 13 Wind Energy Area Options were identified for GOMW-1.

- Only WEA Options I and M moved forward as Final Wind Energy Areas

*Area B is no longer an option due a later DoD assessment requesting removal.



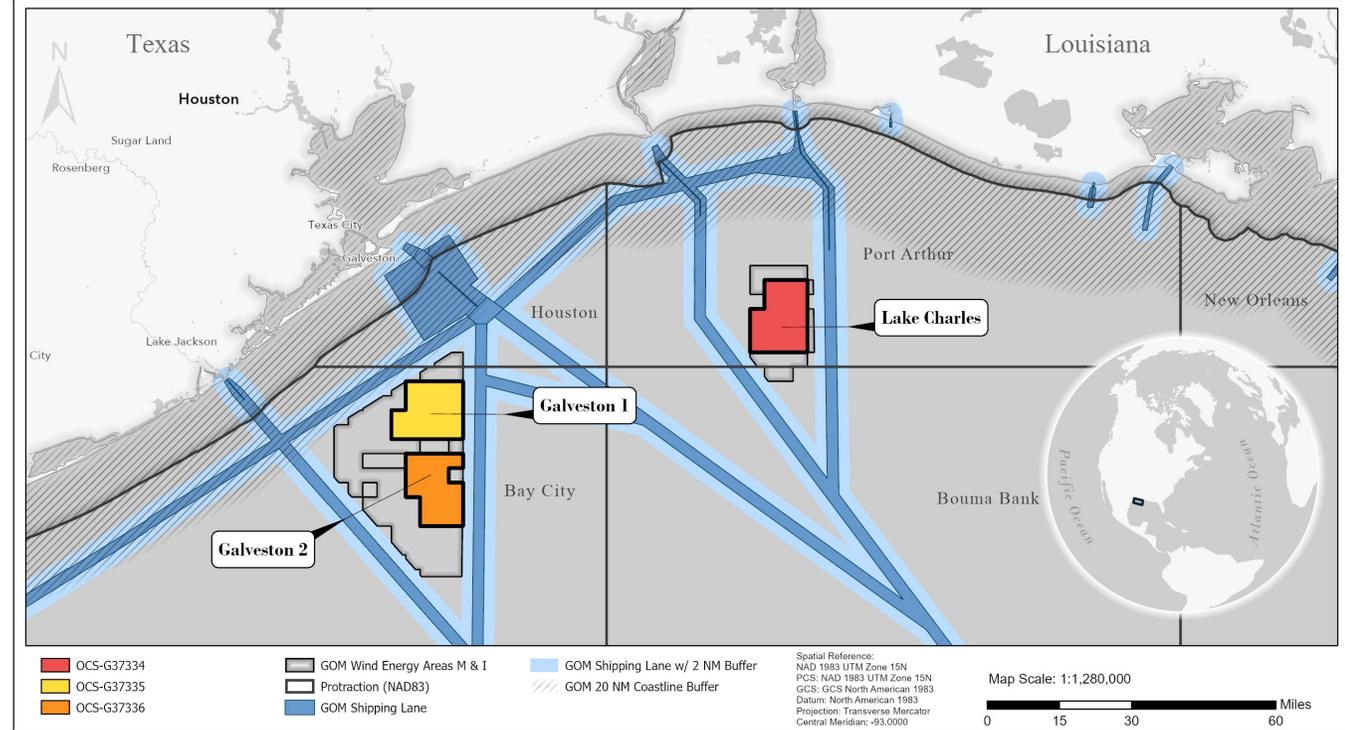
GOMW-1 Lease Areas

	OCS-G 37335 (Galveston I)	OCS-G 37336 (Galveston II)	OCS-G 37334 (Lake Charles)	Total
Acres	102,480	96,786	102,480	301,746
Installation Capacity (MW) ^[1]	1,244	1,175	1,244	3,663
Homes powered ^[2]	435,400	411,250	435,400	1,282,050
Power Production (MWh/yr) ^[3]	4,358,976	4,117,200	4,358,976	12,835,152
Max Depth (meters[m])	36	36	25	--
Min Depth (m)	16	16	10	--
Closest distance to TX (nautical mile [nmi])	28	39	79	--
Closest distance to LA(nmi)	--	--	38	--

[1] Megawatts (MW) based upon 3MW/sqkm

[2] Based upon 350 homes per MW

[3] Formula = Capacity (MW) * 8760 (hrs/yr) * 0.4 (capacity factor)



GOMW-1 Results



Winner of the First Gulf of Mexico Offshore Wind Energy Lease Area

OCS-G 37334	RWE Offshore US Gulf, LLC	\$5,600,000
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DEVELOPABLE ACRES

102,480

INSTALLATION CAPACITY (MW)^[1]

1,244

POWER PRODUCTION (MWh/yr)^[2]

4,358,976

HOMES POWERED^[3]

435,400

MINIMUM DEPTH

10 Meters

MAXIMUM DEPTH

25 Meters

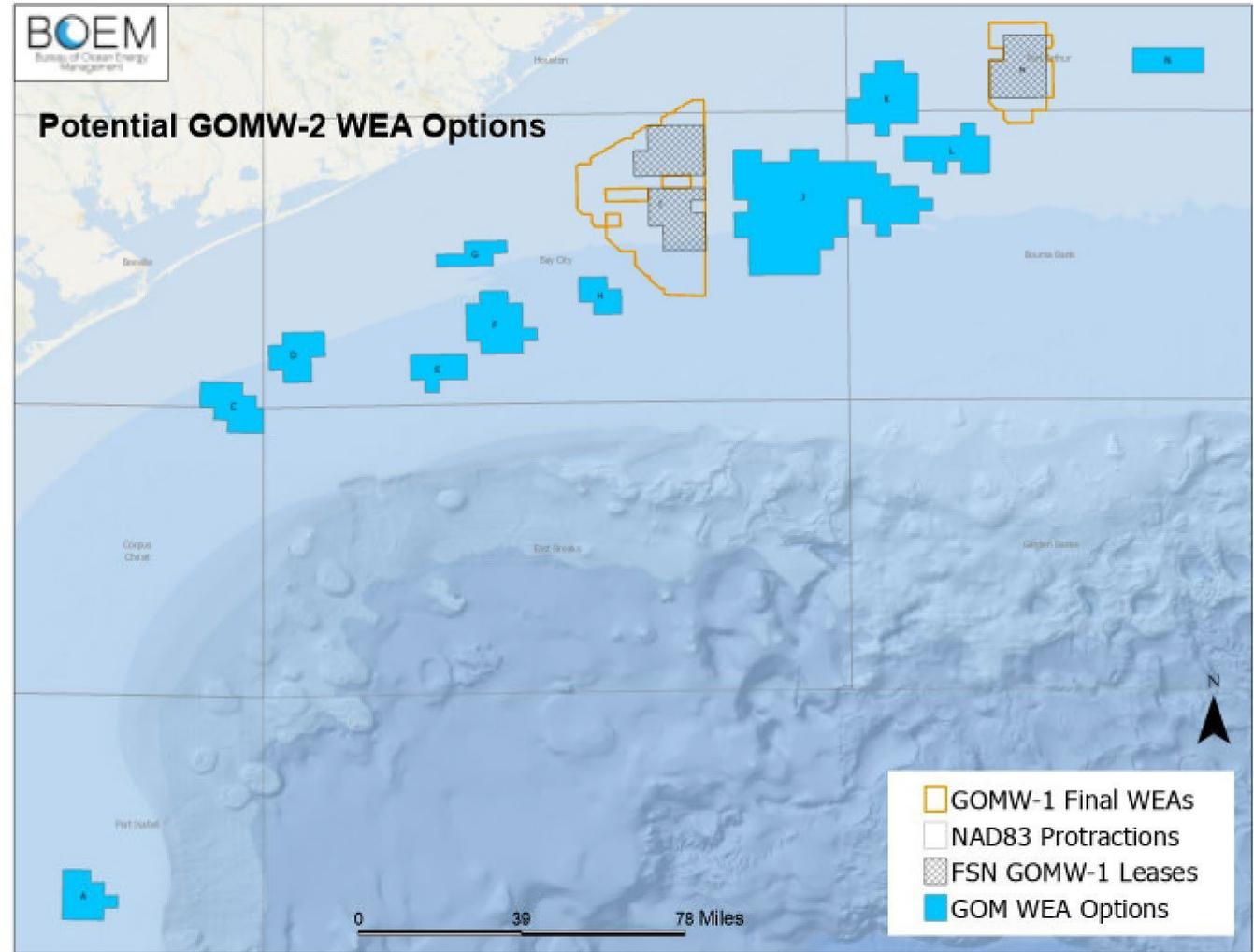
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Notes:
^[1]Megawatts (MW) based on 3MW/sqkm
^[2]Formula = Capacity (MW) * 8760 (hrs/yr) * 0.4 (capacity factor)
^[3]Based upon 350 homes per MW



GOMW-2: Area Identification Process

- Started with the remaining 11 GOMW-1 WEA Options
- WEA Option I was designated a Final WEA for GOMW-1, so it was carried forward to GOMW-2
- Additional stakeholder outreach was completed to gather feedback on the 11 WEA Options



Office of Leasing and Plans - Mapping and Automation Section | MAG2022-315 | 26 July 2023



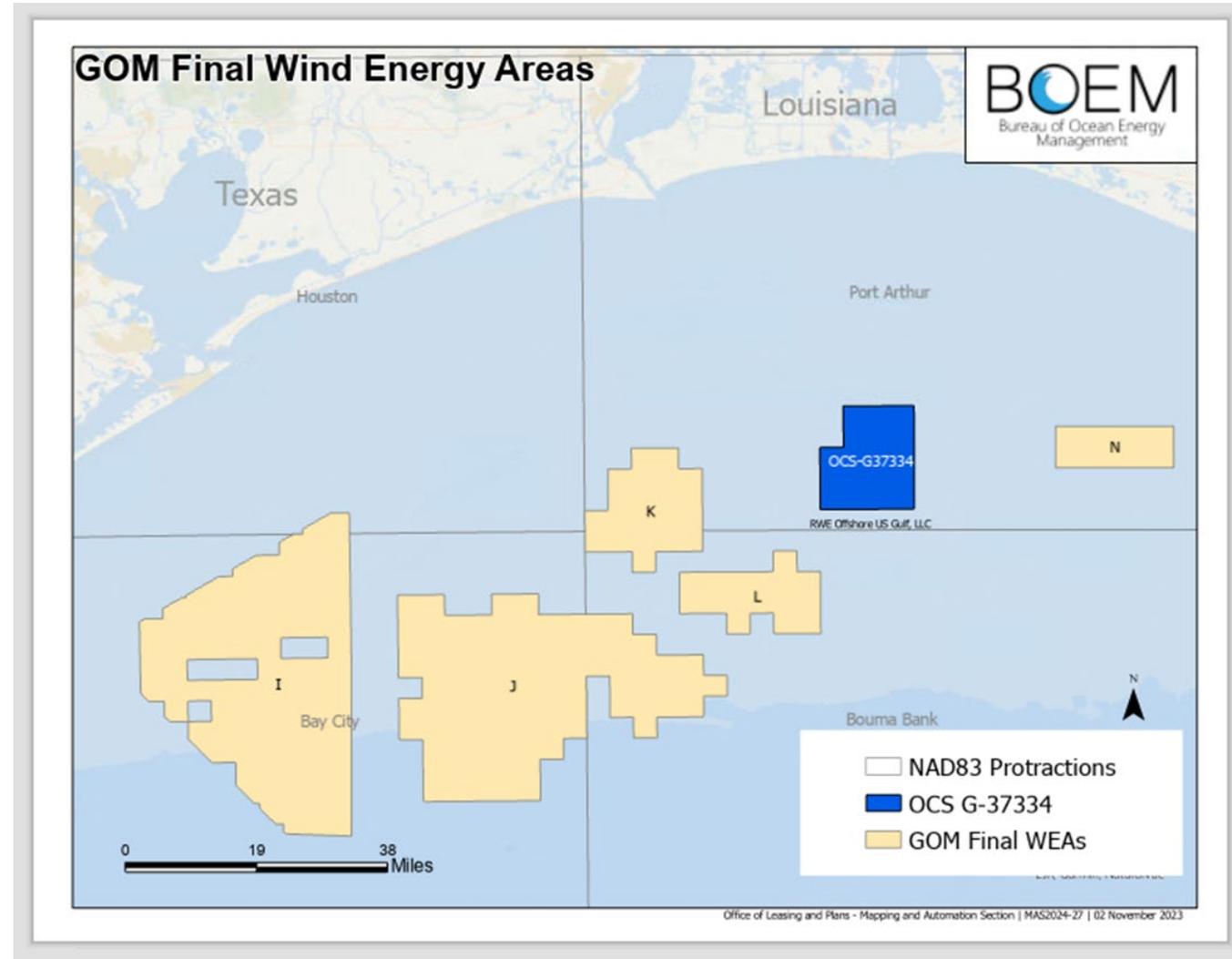
GOMW-2 Final Wind Energy Areas

The GOMW-2 Final Wind Energy Areas were published on October 27, 2023 which included:

- WEA J : 495,567 acres
- WEA K : 119,635 acres
- WEA L : 91,157 acres
- WEA N : 56,978 acres

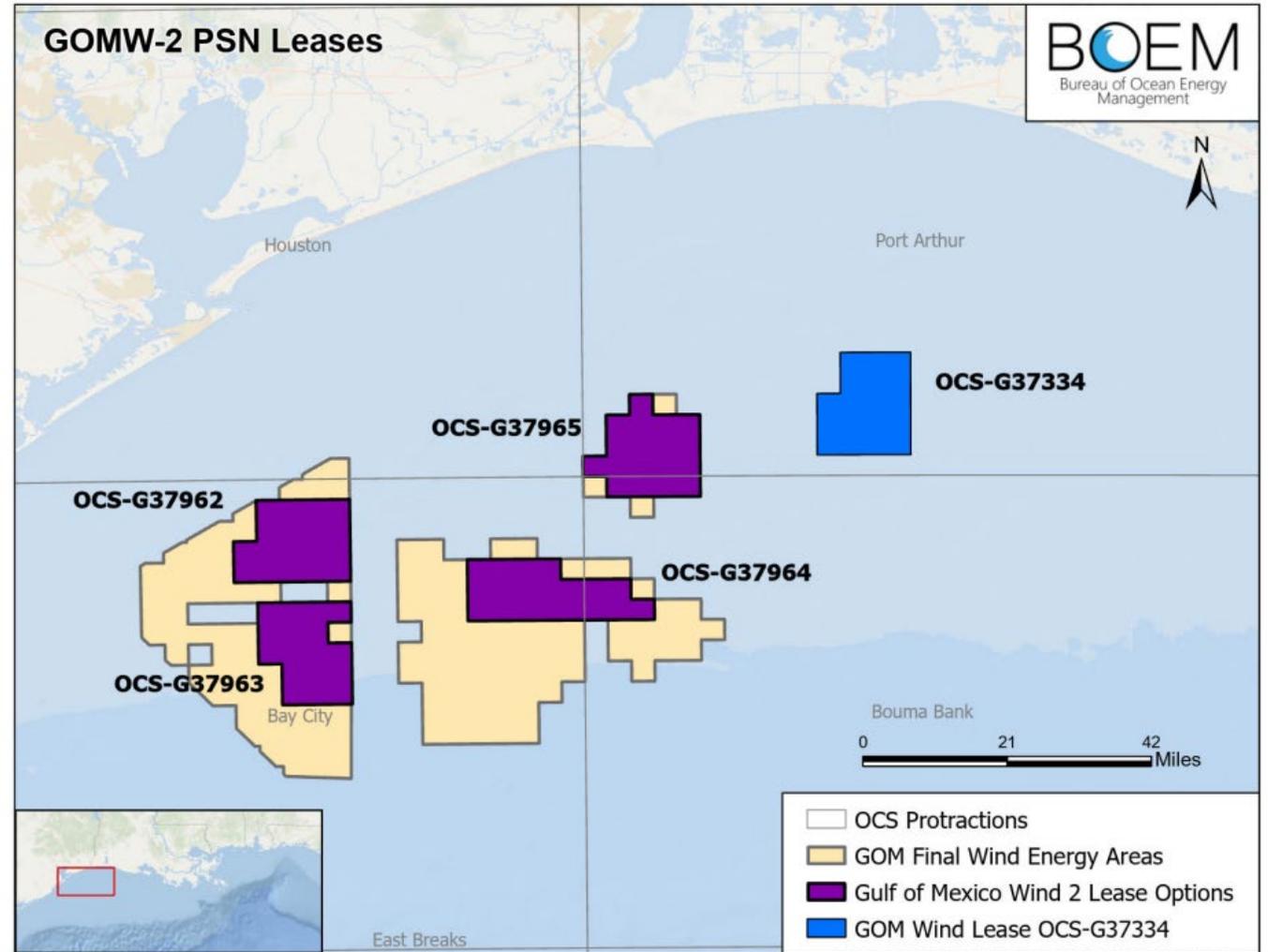
The four Final WEAs now join WEA I which was designated on October 31, 2022.

- WEA I : 508,265 acres



GOMW-2 Proposed Lease Areas

- Precision siting to further deconflict lease areas within the Final WEAs was performed by NCCOS
- The Proposed Sale Notice was published in the *Federal Register* on March 21, 2024 which identified 4 potential lease areas:
 - I-1 (GOMW-1)
 - I-2 (GOMW-1)
 - J-1
 - K-1



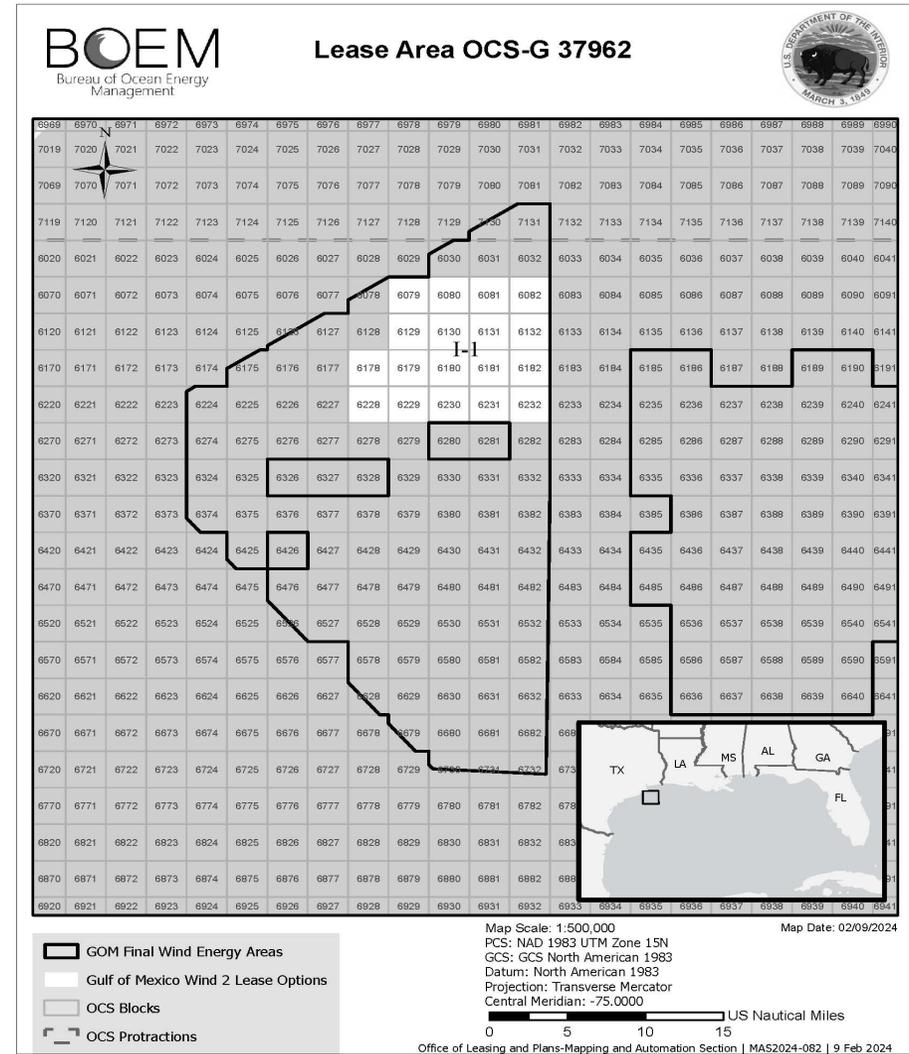
Proposed Lease G37962 (I-1)

	Lease G37962
Acres	102,480
Installation Capacity (MW) ^[1]	1,244
Homes powered ^[2]	435,400
Power Production (MWh/yr) ^[3]	3,269,232
Max Depth (meters[m])	36
Min Depth (m)	16
Closest distance to TX (km)	28

[1] Megawatts (MW) based upon 3MW/sqkm

[2] Based upon 350 homes per MW

[3] Formula = Capacity (MW) * 8760 (hrs/yr) * 0.3 (capacity factor)



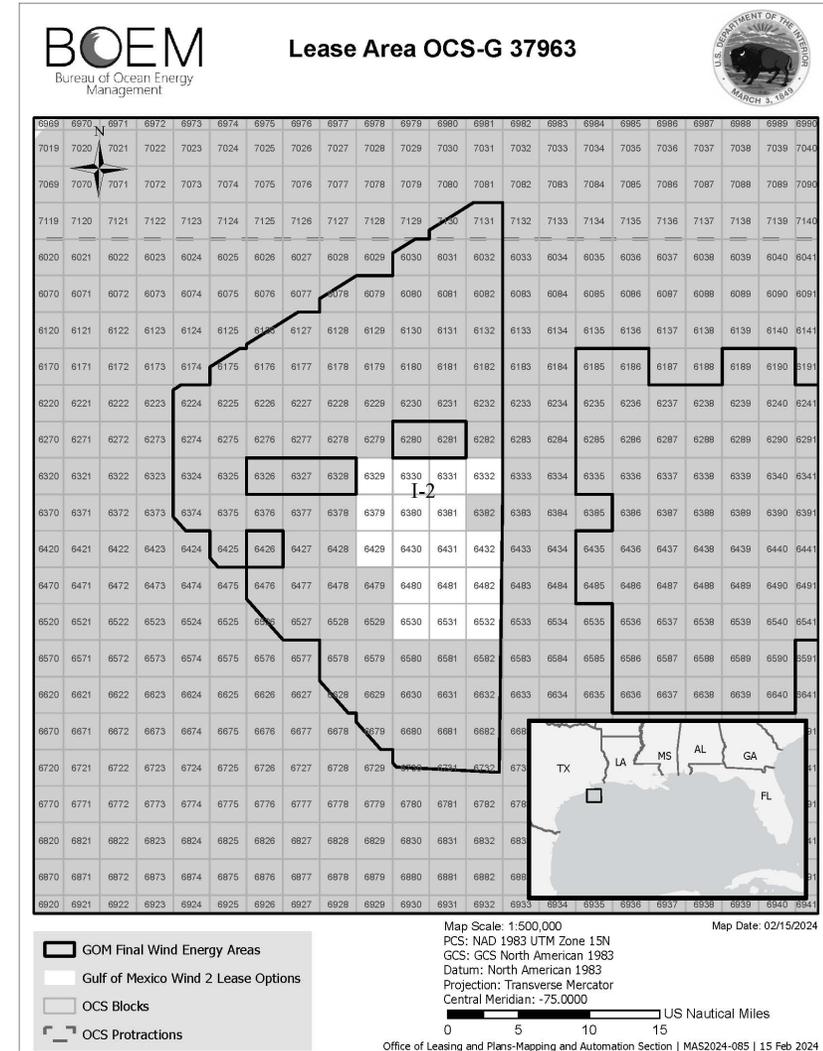
Proposed Lease G37963 (I-2)

	Lease G37963
Acres	96,786
Installation Capacity (MW) ^[1]	1,175
Homes powered ^[2]	411,250
Power Production (MWh/yr) ^[3]	3,087,900
Max Depth (meters[m])	36
Min Depth (m)	16
Closest distance to TX (km)	39

[1] Megawatts (MW) based upon 3MW/sqkm

[2] Based upon 350 homes per MW

[3] Formula = Capacity (MW) * 8760 (hrs/yr) * 0.3 (capacity factor)



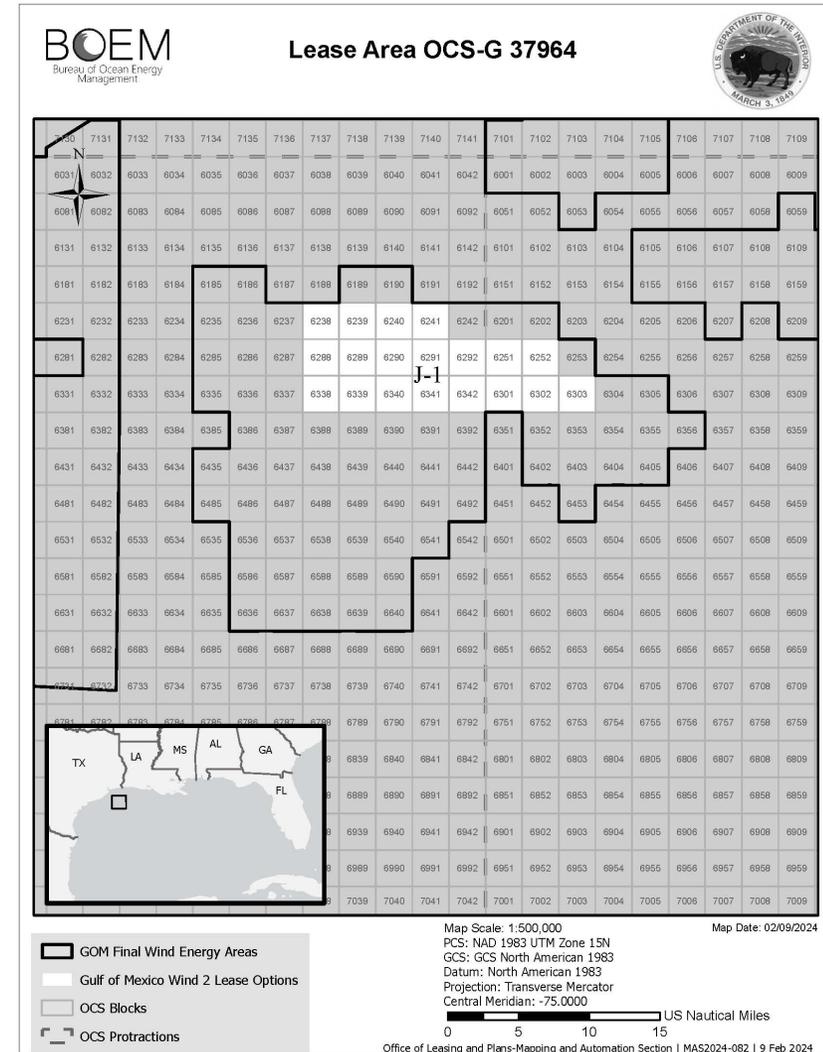
Proposed Lease G37964 (J-1)

	Lease G37964
Acres	108,230
Installation Capacity (MW) ^[1]	1,314
Homes powered ^[2]	459,900
Power Production (MWh/yr) ^[3]	3,453,192
Max Depth (meters[m])	34
Min Depth (m)	21
Closest distance to TX (km)	75

[1] Megawatts (MW) based upon 3MW/sqkm

[2] Based upon 350 homes per MW

[3] Formula = Capacity (MW) * 8760 (hrs/yr) * 0.3 (capacity factor)



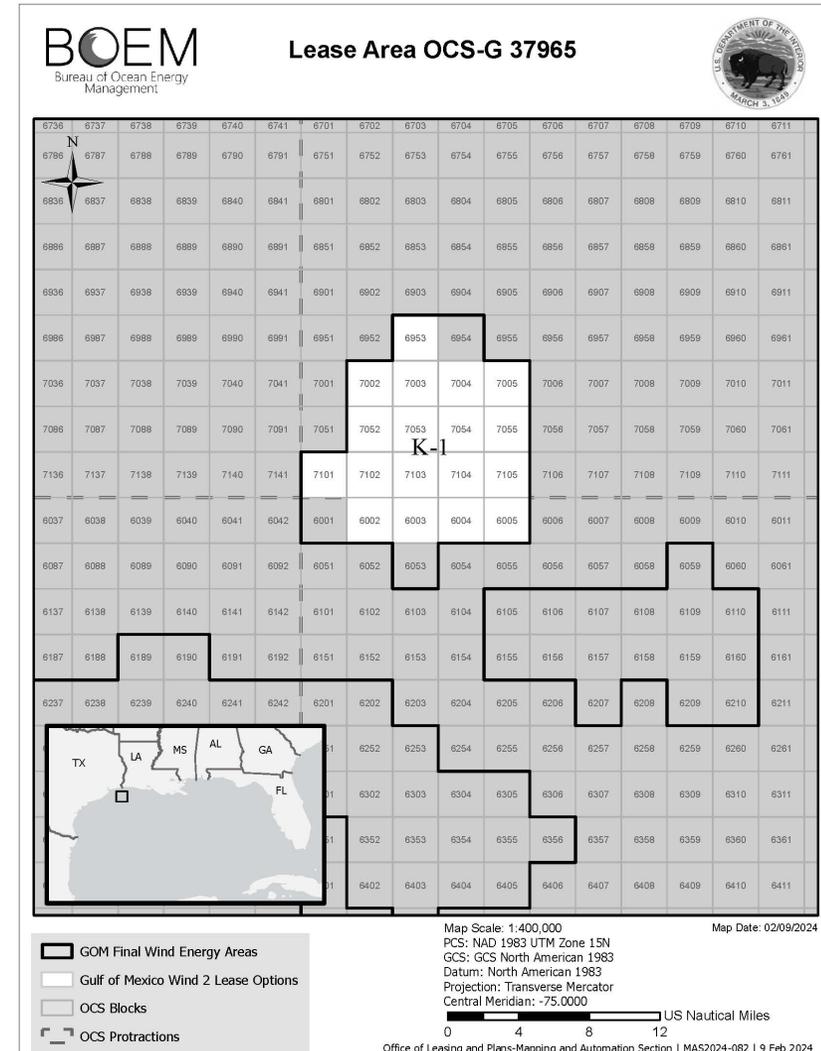
Proposed Lease G37965 (K-1)

	Lease G37965
Acres	102,544
Installation Capacity (MW) ^[1]	1,245
Homes powered ^[2]	435,750
Power Production (MWh/yr) ^[3]	3,271,860
Max Depth (meters[m])	23
Min Depth (m)	18
Closest distance to TX (km)	58
Closest distance to LA (km)	59

[1] Megawatts (MW) based upon 3MW/sqkm

[2] Based upon 350 homes per MW

[3] Formula = Capacity (MW) * 8760 (hrs/yr) * 0.3 (capacity factor)



Proposed Lease Area Statistics

Lease Area Descriptive Statistics

	Acres	Installation Capacity ¹	Homes Powered ²	Power Production (MWh/yr.) ³	Max Depth (meters)	Min Depth (meters)	Closest Distance to TX (km)	Closest Distance to LA (km)
G37962 (I-1)	102,480	1,244	435,400	3,269,232	36	16	28	
G37963 (I-2)	96,786	1,175	411,200	3,087,900	36	16	39	
G37964 (J-1)	108,230	1,314	459,900	3,453,192	31	24	75	100
G37965 (K-1)	102,544	1,245	435,750	3,271,860	23	18	58	59
TOTAL	410,040	4,978	1,742,250	13,082,184				

[1] Megawatts (MW) based upon 3MW/sqkm

[2] Based upon 350 homes per MW

[3] Formula = Capacity (MW) * 8760 (hrs/yr) * 0.3 (capacity factor)



GOMW-2 PSN Input Requested from Stakeholders

- Delineation, number, size, orientation and location of Lease Areas offered
- Need for transit corridors
- Benefits to underserved communities
- Bidding credits –
 - Workforce training & supply chain development
 - Fishing compensatory mitigation fund
- Tribal Nations, ocean users, underserved communities, agencies, and other stakeholders engagement and reporting
- Prescribed layouts – uniform and aligned
- Limits on Number of Lease Areas per Bidder
- Industry standards for environmental protection



How to Comment on the GOMW-2 PSN

To comment on the Proposed Sale Notice, go to <https://www.regulations.gov/> and search for docket number BOEM-2024-0017.

A 60-day comment period is open through May 20, 2024.



Upcoming Engagement Meetings for GOMW-2

- April 10th: Auction Seminar for Prospective Bidders
- April 18th: Fifth Intergovernmental Task Force Virtual Meeting
- April 30th: Fisheries and eNGO Engagement Virtual Meeting

Information on how to register will be on our website at:

<https://www.boem.gov/renewable-energy/state-activities/gulf-mexico-activities>



GOMW-2 Next Steps

- Analyze comments received on PSN
- Publish Final Sale Notice
- Lease Auction + 30 days after publication of FSN
- Lease signing
 - No later than December 20, 2024



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Consultations

- **EFH Consultation with NMFS was completed for the call area on 12/14/2022.**
 - This consultation considered the site assessment and site characterization activities from up to 18 leases.
- **ESA Consultation for site assessment and site characterization**
 - Consultation with FWS completed on 11/18/2022; considered up to 18 leases in the call area.
 - Consultation with NMFS completed on 12/14/22; considered up to 18 leases in the call area in water depths no greater than 100 m.
- **NHPA Section 106**
 - Invitations to consult were sent 1/31/24, with responses due 2/29/24.
- **Government-to-Government Consultation**
 - Letters inviting consultation were sent to tribes with a known interest in GOM.
 - Several responses received requesting to be informed throughout the process.



Bidding Credits

- Bidders may receive a bidding credit in exchange for committing to a monetary contribution to offshore wind programs or initiatives.
 - Bidding credits are calculated as a percentage of the bid.
- 1. 17 percent non-monetary bid credit for a contribution to workforce training, supply chain development, or a combination of both.
 - Bidding credit for a commitment to invest in programs that will advance U.S. offshore wind energy **workforce training and/or supply chain development**.
 - The credit is intended to incentivize investments that would not occur otherwise.
- 2. 8 percent non-monetary bid credit for a contribution to a Fisheries Compensatory Mitigation Fund.
 - Bidding credit for establishing or contributing to an existing **Gulf of Mexico Fisheries Compensatory Mitigation Fund**.

