

Photo: South Fork Wind Farm

Learning from the Experts Webinar Series

Navigational Safety and Offshore Wind



Maureen Kallgren

Lead Marine Transportation Specialist

U.S. Coast Guard Office of Navigation Systems



Hosted by: Laura McLean

Oceans and Lakes Policy Analyst
New York State Dept. of State

September 24, 2025

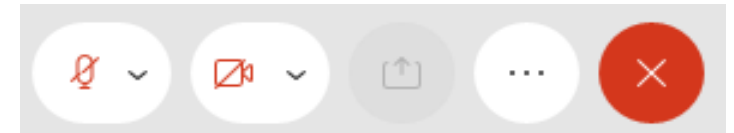
Meeting Procedures

Webinar recordings and presentations will be available at:

www.nyserda.ny.gov/osw-webinar-series

Participation for Members of the Public:

- > Members of the public will be muted upon entry.
- > Questions and comments may be submitted through the Slido Q&A feature at any time during the webinar.
- > If technical problems arise, please contact Adam.Hauck@nyserda.ny.gov



You'll see  when your microphone is muted

Learning from the Experts

This webinar series is hosted by NYSERDA's offshore wind team and features experts in offshore wind technologies, development practices, and related research.

DISCLAIMER:

The views and opinions expressed in this presentation are those of the presenter and do not represent the views or opinions of NYSERDA or New York State.



NYSERDA





United States Coast Guard

Office of Navigation Systems

Maureen Kallgren

Marine Transportation Specialist

Navigation Standards Division



We help mariners get there!



By leveraging collaboration and communication across all maritime stakeholders and federal partners through:

- **Port Access Route Studies**
- **Rules of the Road (COLREGS/Inland)**
- **Regulations for shipping safety fairways and routing measures**
- **Electronic Charting Display Information Systems**
- **Safety Zones**
- **Cooperating Agency Review of Offshore Project Plans**
- **Review Structure Lighting and Marking Plan**

U.S. Coast Guard Authority & Policy

Port Access Route Studies (PARS)

- Ports & Waterways Safety Act (46 U.S. Code 70003)

Lighting & Marking

- 33 CFR Part 64 – Marking Structures
- 33 CFR Part 67 – Private Aids to Navigation
- International Organization for Marine Aids to Navigation (IALA)

Safety Zones

- 33 CFR Part 147 - amended January 11, 2023

Guidance to stakeholders

- Navigation and Vessel Inspection Circulars (NVIC)
- 03-23 Guidance to Mariners operating in and around Offshore Renewable Energy Installations

PORT ACCESS ROUTE STUDIES

46 USC 70003 (originally the Ports and Waterways Safety Act)



STATUTORY AUTHORITY

Designate Fairways and Traffic Separation Schemes (TSS) in order to Provide Safe Access Routes for Vessel Traffic to and from U.S. Ports



PORT ACCESS ROUTE STUDY (PARS)

Must Undertake a Study prior to Designating Fairways and TSSs.



DISTRICT COMMANDER

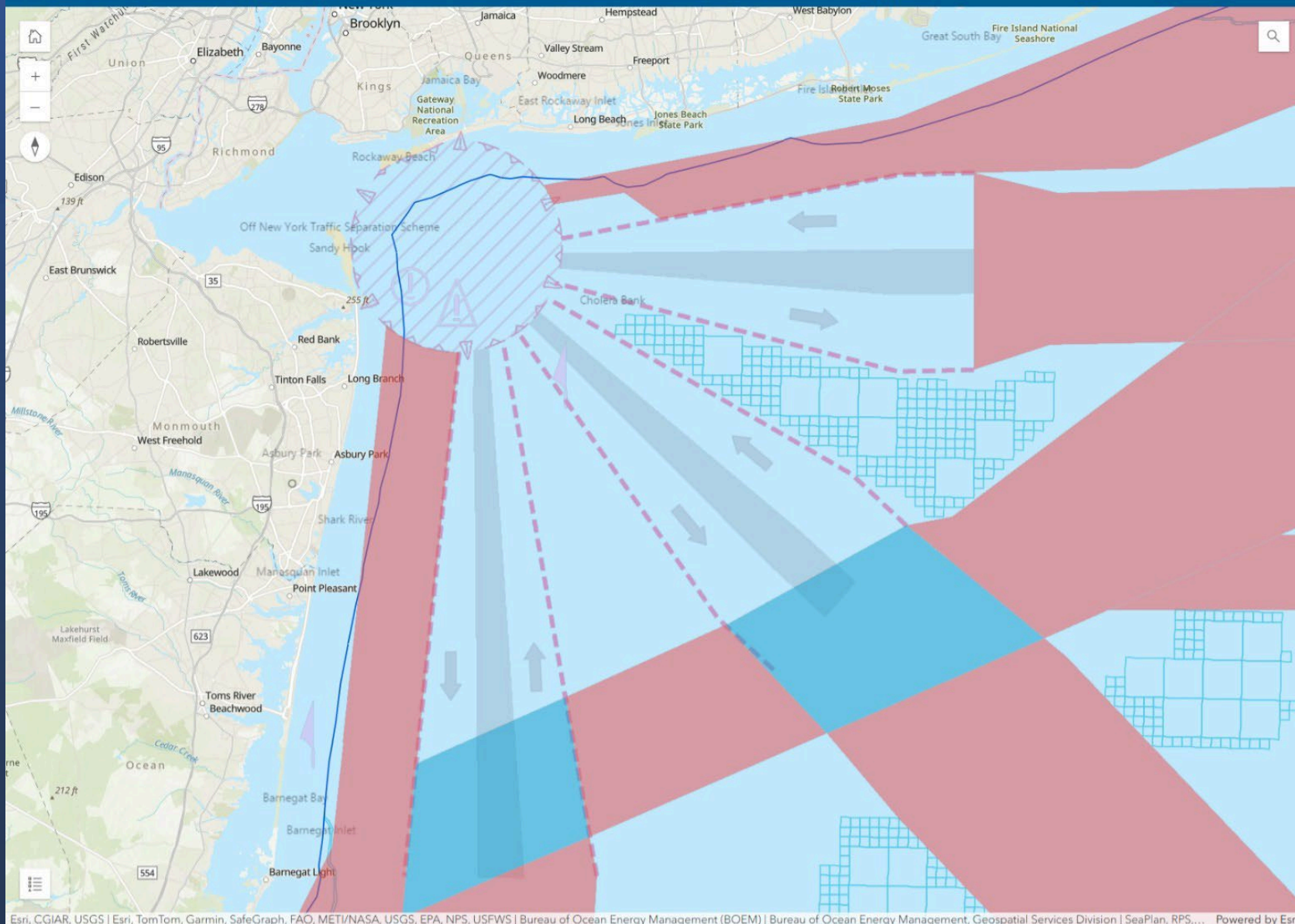
Typically conducted by District Waterways Management in coordination w/ Federal and State agencies and considers input from the maritime community.



RULEMAKING

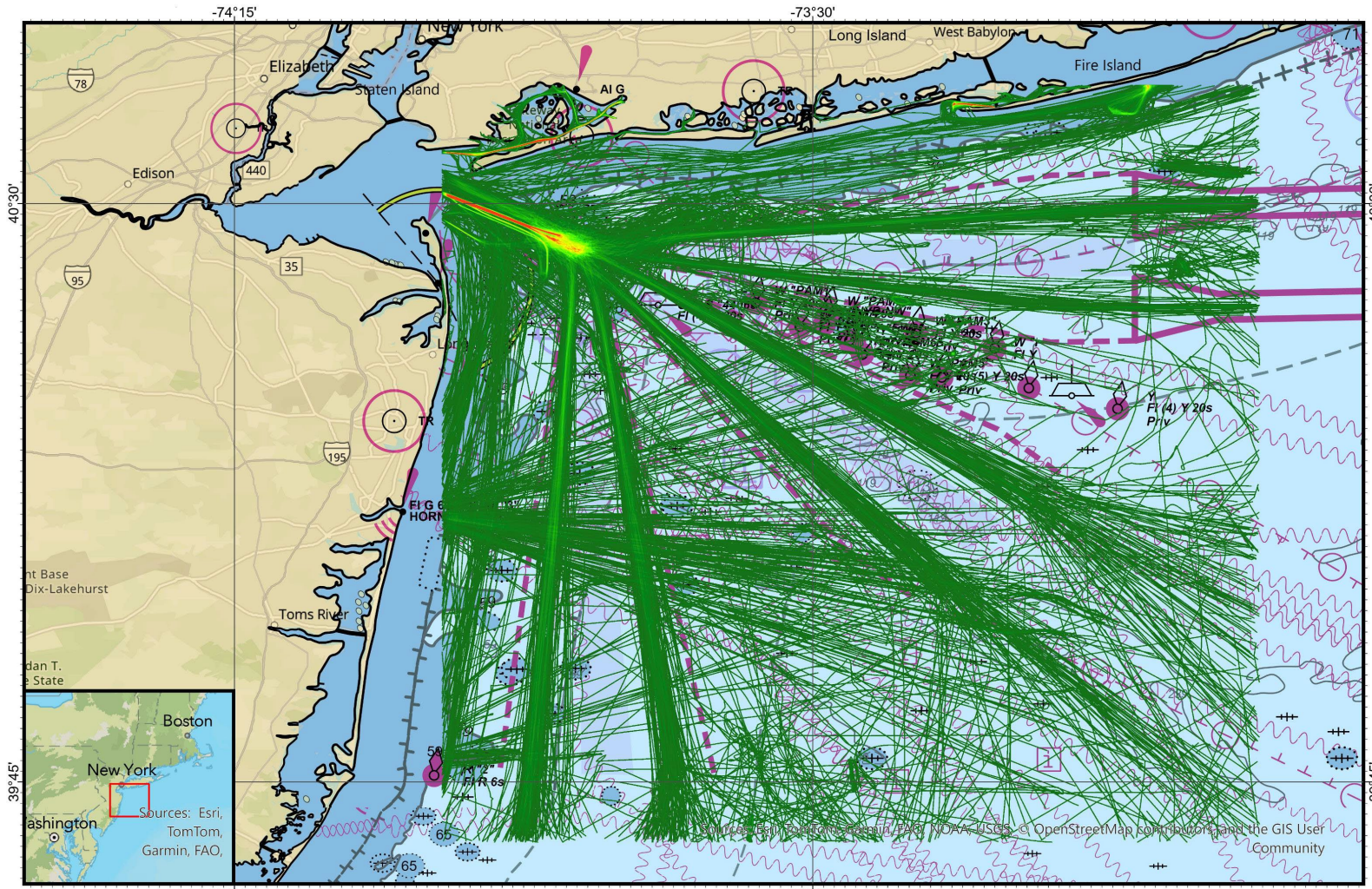
PARS Results in the Issuance of Rules and Regulations to Designate Fairways and TSSs.

USCG Atl. Fairways PEIS Working

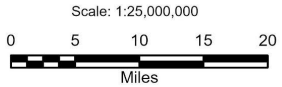


COMDT CG NAV-2 HIST 2025-185

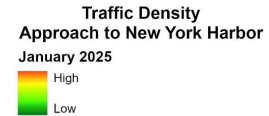
NOT FOR NAVIGATIONAL USE



Spatial Reference Name: GCS WGS 1984
Provided by USCG NAVCEN
29 July 2025

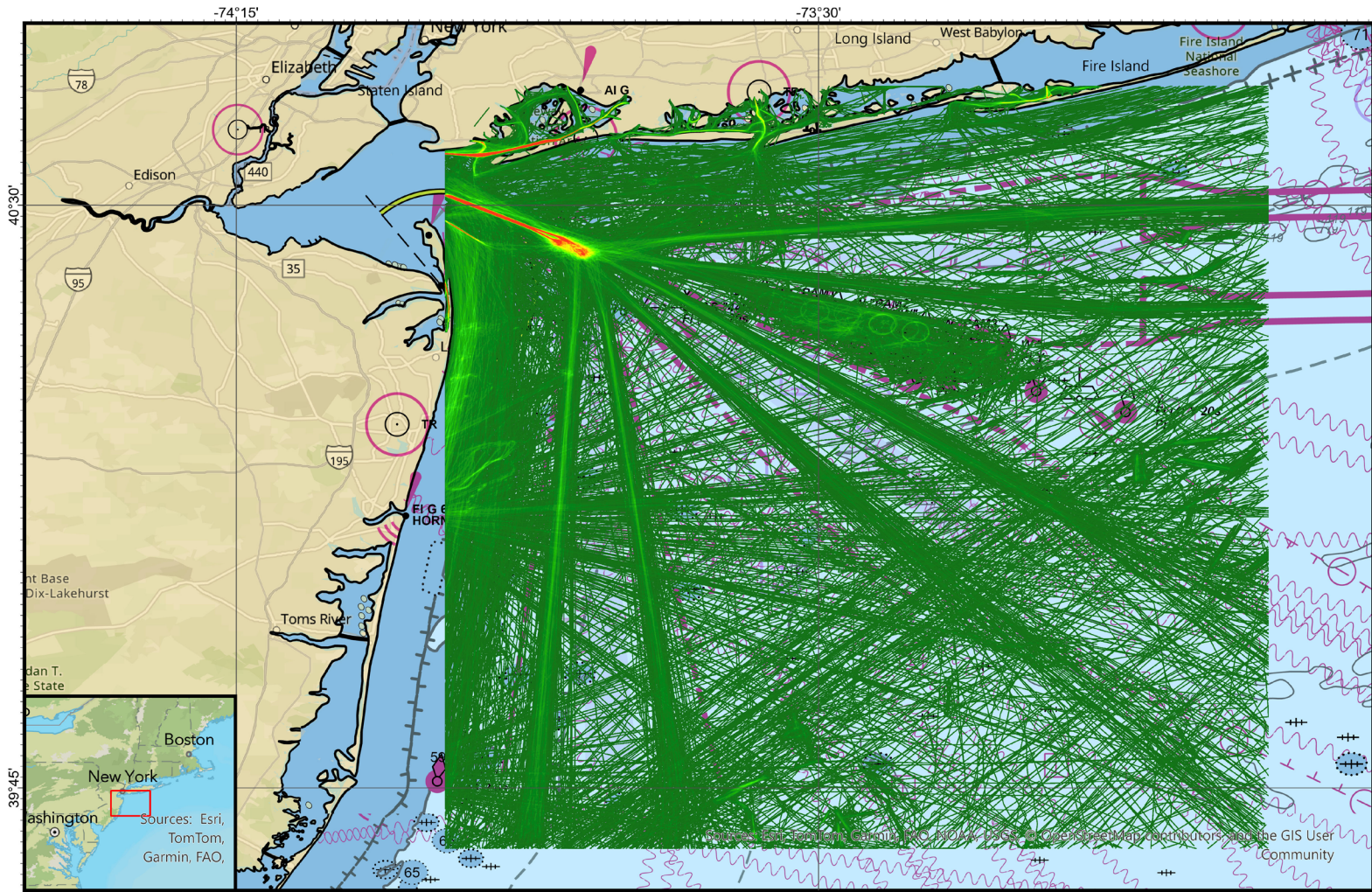


NOT FOR NAVIGATIONAL USE

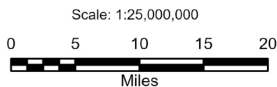


COMDT CG NAV-2 HIST 2025 - 184

NOT FOR NAVIGATIONAL USE



Spatial Reference
Name: GCS WGS 1984
Provided by USCG NAVCEN
03 Sep 2025



NOT FOR NAVIGATIONAL USE

Traffic Density
Approach to New York Harbor
June 2025
High
Low

U.S. Coast Guard Challenges and Opportunities

Challenges

- USCG does not have authority to issue leases
- USCG does not have authority to approve Construction and Operations Plans including layout and configurations

Opportunities

- Enhance Maritime Safety Information through robust Inter-Agency cooperation
- Leverage research to learn and study new technologies and impacts on the waterway
- Participate in smart marine planning through collaboration with all maritime stakeholders

Navigation & Vessel Inspection Circular (NVIC) 02-23

- Guide CG field reviews in our role as a Cooperating Agency to BOEM under NEPA
- Guidance to Offshore Developers on requirements on
 - Preparing Navigation Safety Risk Assessments (NSRA)
 - Preparing lighting, marking and signaling plans

Lighting & Marking

USCG Policy is to follow:

- IALA - Guideline G1162
- Designated as a Class 1 Aid
- Unique Alphanumeric Marking
- Lighting and Sound Signals
- AIS Aids to Navigation

SPS - Significant Periphery Structure

IPS - Intermediate Periphery Structure

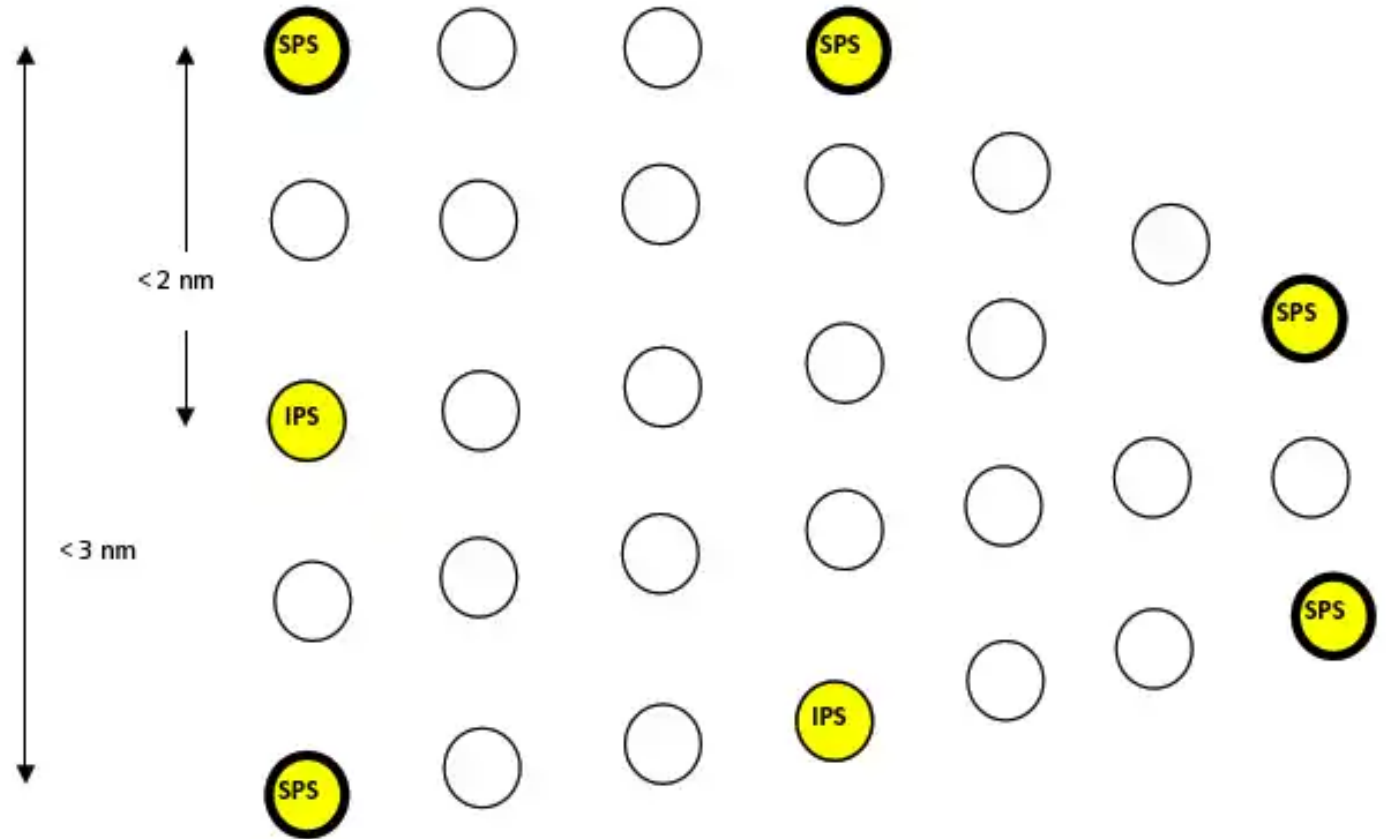
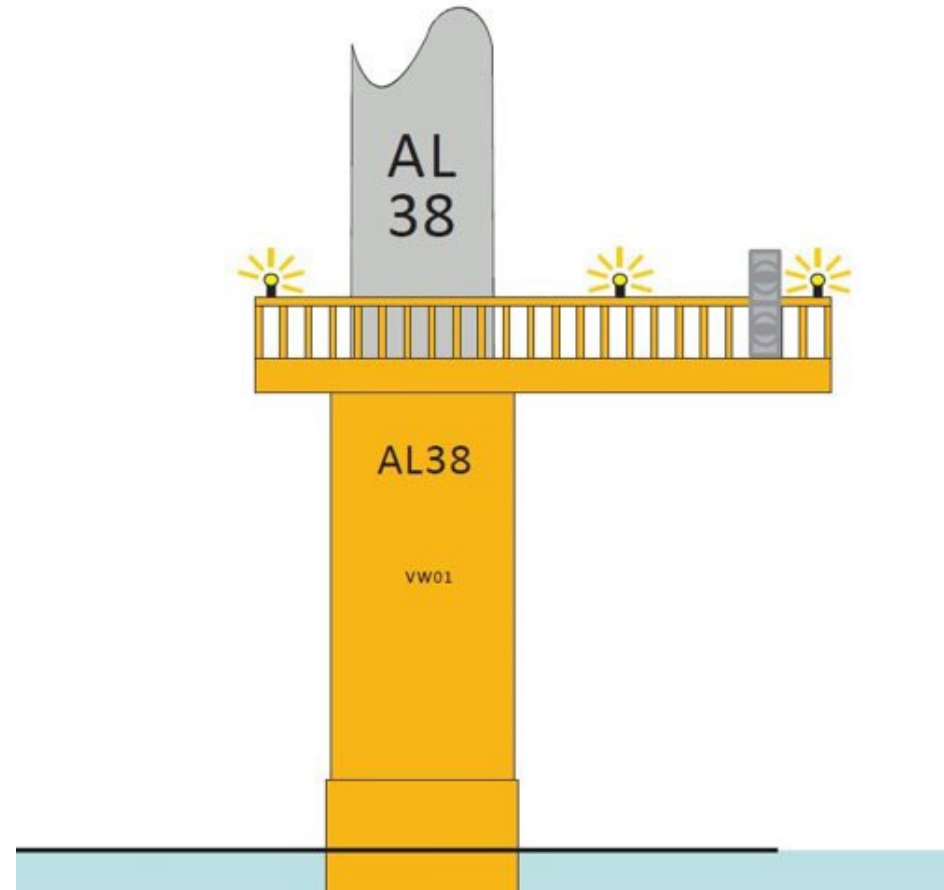


Figure 3 Sample marking of an OWF

Possible Lighting and Marking for Offshore Structures in Offshore Wind Lease



Navigation & Vessel Inspection Circular (NVIC) 03-23

This provides guidance to mariners operating in and around offshore renewable (wind) installations.



Safety Zones

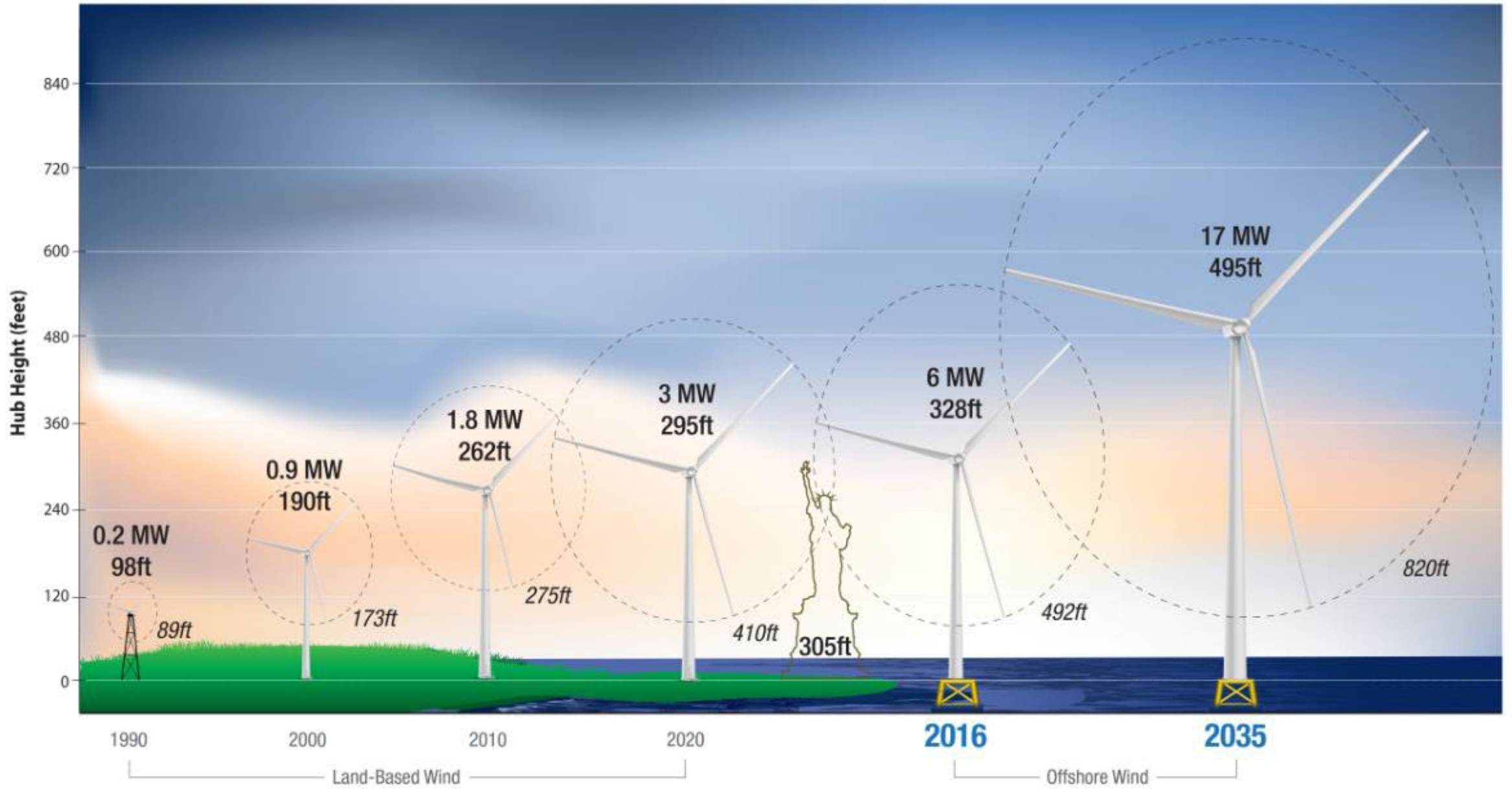
Title 33 CFR Part 147 now allows for safety zones around **non-mineral energy** resource permanent or temporary structures during construction, maintenance or decommissioning.





Questions?





Wind Turbine Capacity (Megawatt) | Hub Height (feet)
 Rotor Diameter (feet)



References

- [CG PATON Form Additional Instructions for AIS.pdf \(uscg.gov\)](#)
- [Port Access Route Study Reports | Navigation Center \(uscg.gov\)](#)
- [G1162 The marking of offshore man-made structures - IALA AISM \(iala-aism.org\)](#)
- [Guidance Portal | Bureau of Ocean Energy Management \(boem.gov\)](#)
- [Top ten things you didn't know about offshore wind energy](#)



Next Webinars

October 23, 12:00 p.m. ET
**AI Applications in Offshore
Wind Development and
Operations**

November 19, 1:00 p.m. ET
**Repurposing Offshore
Expertise: Lessons Learned
from Oil**

Visit wind.ny.gov to register

Check out over 50 past webinars, including:

- **How Offshore Wind Contributes to Domestic Energy Security**
- **Benthic Habitat Research for Offshore Wind**
- **Offshore Wind Vessels – Constraints and Opportunities**
- **Offshore Wind Turbine Design for Extreme Weather Events**
- **Worker Safety in Offshore Wind**

www.nyserda.ny.gov/osw-webinar-series

We want your feedback! Fill out the “Learning from the Experts” survey at wind.ny.gov.