



New York State Maritime Technical Working Group (M-TWG)

**Update for Harbor Safety, Navigation, and Operations Committee
November 18, 2020**

Maritime Technical Working Group (M-TWG)

GOALS

- To provide a forum for stakeholder discussions focusing on safe navigation of vessels to/from NY/NJ Harbor during all phases of offshore wind development
- Support the state's efforts to meet its offshore wind goals



Led by NYSDOS

Michael Snyder

Michael.Snyder@dos.ny.gov

Laura McLean

Laura.McLean@dos.ny.gov

Technical Support from BTMI-COWI

Brent Cooper

brco@cowi.com

Maria Grønnegaard

mgnn@cowi.com

COWI Introduction and Background



Brent D. Cooper, P.E.

- > Project Manager & U.S. East Coast Offshore Wind Sector Lead
- > 13 years experience with coastal / waterfront / offshore engineering



Maria Grønnegaard

- > Lead Technical Specialist, Risk Analysis, COWI International
- > 7 years experience with navigation risk assessments



International Consultancy with approx. **7,400** employees

2019 net turnover: **1B USD**

World-class competencies within **engineering, economics and environmental science**

Independent – owned by the COWI Foundation and employees

87 years of history

Stakeholder Survey – Marine Commerce Trends and Issues Related to Offshore Wind

Vessel Traffic Trends in and around New York Harbor

- > Vessel Quantity
- > Vessel Size
- > Harbor Infrastructure and Vessel Size Limitations
- > Short Sea Shipping



Photo obtained from PANYNJ

Vessel Traffic and Operations

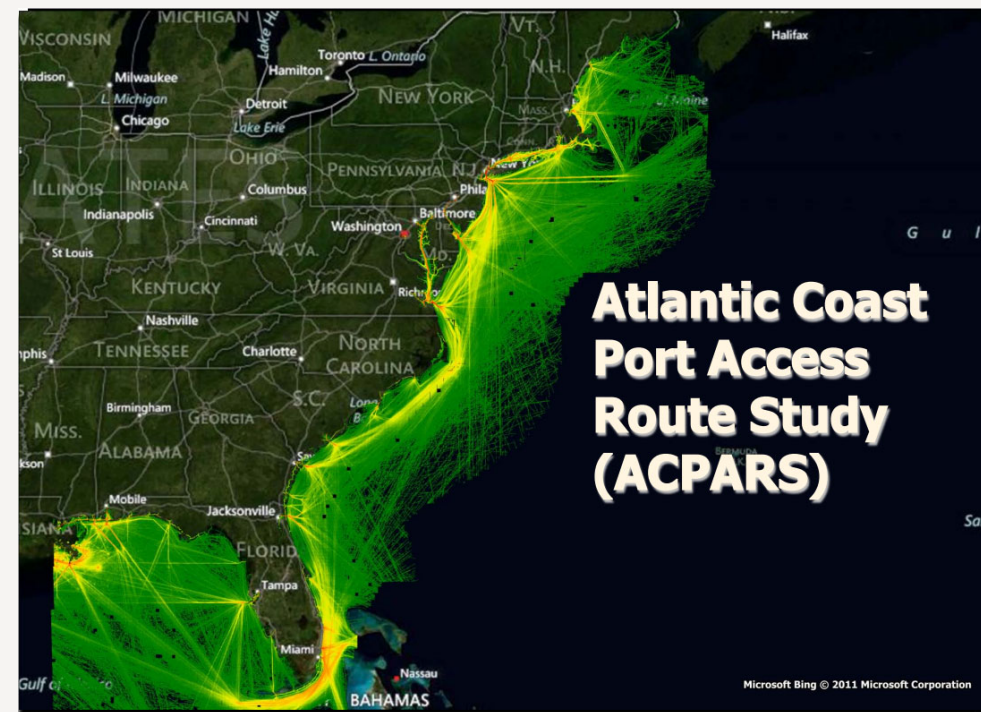
- > Traffic Controls
 - > TSS
 - > VTS
 - > SMA
- > Operational Areas
 - > Kill van Kull
 - > Hudson River
- > Access to Tugs
- > Vessel Supplies



Stakeholder Survey – Marine Commerce Trends and Issues Related to Offshore Wind

Opportunities and Open Feedback

- > Detailed OREI Procurement Process
- > Continuing PARS
- > Maritime Workforce Training
- > Support for Shipyards



Offshore Wind Literature Review

- > Basis of Literature Review
- > Evaluation, Assessment, and Management of Navigational Safety and Risk
- > Adjusting to Advances in Technology and New Information
- > Electrical Transmission System

Basis of Literature Review

- > International guidelines (IMO, UNCLOS, PIANC, IALA)
- > U.S Publications from USCG and BOEM
- > North Sea country guidelines (UK, Netherlands, Denmark, Germany)
- > Navigation Risk Assessment for offshore windfarms
 - > U.S.: Block Island, South Fork, Vineyard Wind
 - > North Sea: Horns Rev, Kriegers Flak



Photo: K. Mikkelsen/Scanpix



Photo:Huang Shengang

Evaluation, Assessment, and Management of Navigational Safety and Risk

- > Evaluation of Navigation Risk Changes
- > Navigation Safety in WEAs and Cumulative Impacts
- > Risk Acceptance
- > Set-Back Distance between Transit Lane and OREI
- > Anchorage Areas
- > Radar Interference
- > Service/project vessel impact
- > Construction and operational safety zones
- > Aids to Navigation

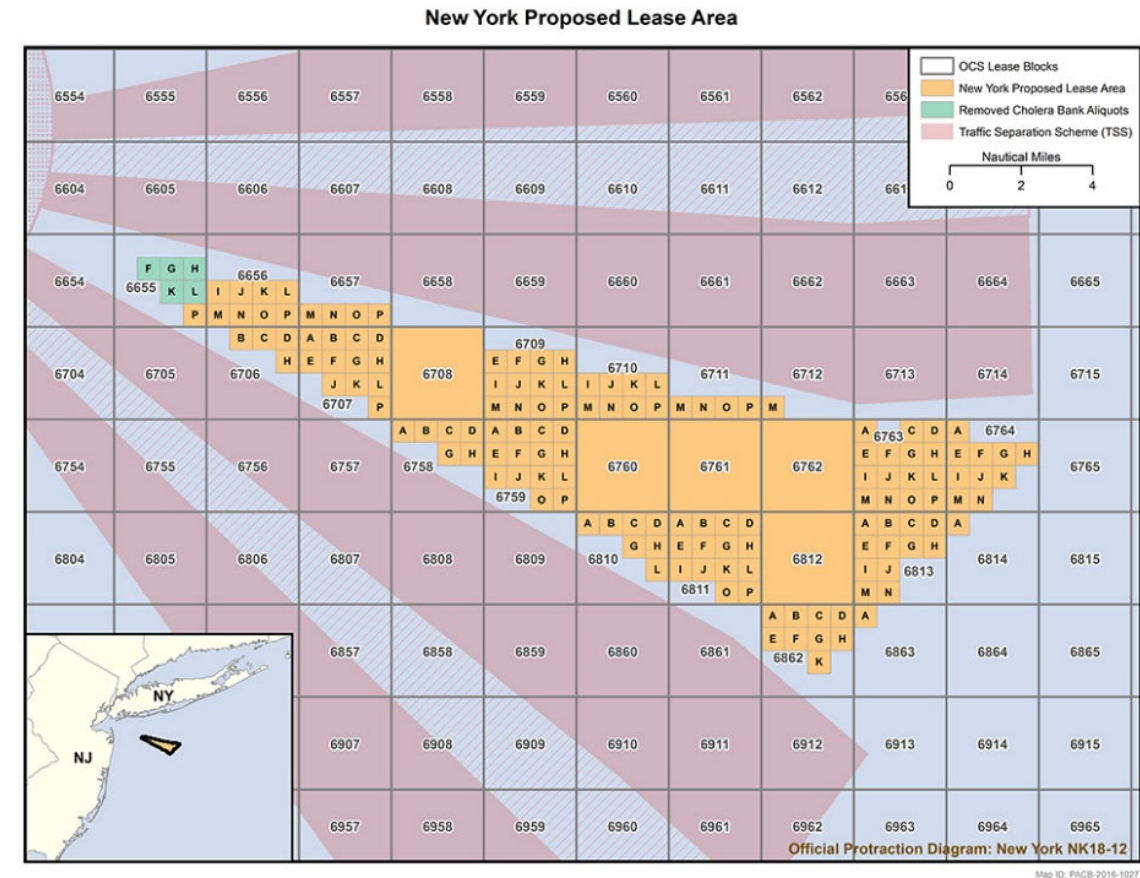


Photo obtained from www.boem.gov

Evaluation, Assessment, and Management of Navigational Safety and Risk

- > Evaluation of Navigation Risk Changes
 - > NRA is required in North Sea countries
 - > IMO Formal Safety Assessment
- > Risk Acceptance
- > Navigation Safety in WEAs and Cumulative Impacts



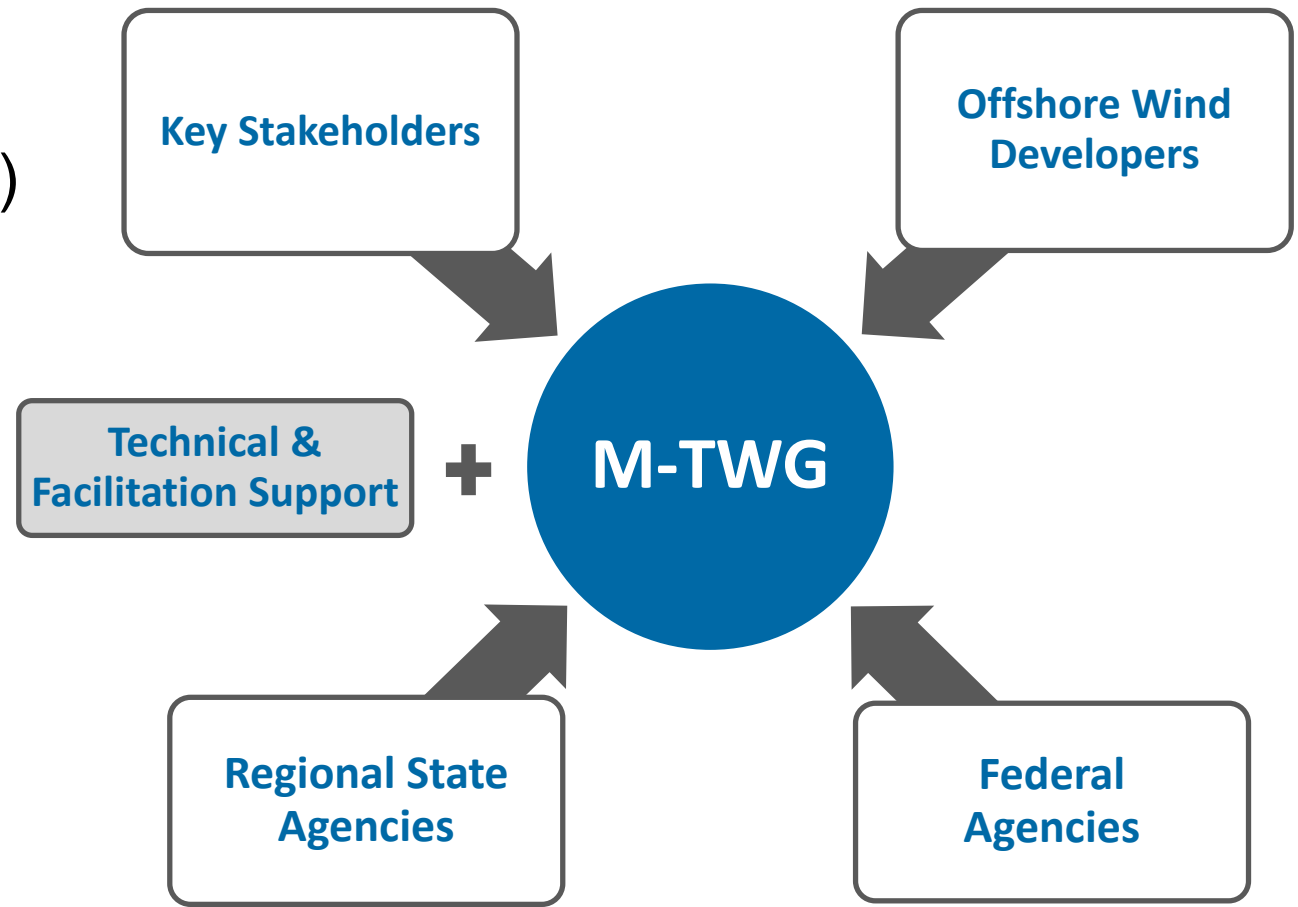
Phot: [iStock.com/Leadinglights](https://www.iStock.com/Leadinglights)

Thank you

Brent D. Cooper, BRCO@COWI.com
Maria Grønnegaard, MGNN@COWI.com

M-TWG Summary Report & Next Steps

- Developer Roundtables (Aug 2020)
- Report posted to NYSERDA's website
- Next steps:
 - Expanded coordination with offshore wind industry
 - Informing management options



M-TWG Questions?



Michael Snyder

Ocean and Great Lakes Program Manager

Michael.Snyder@dos.ny.gov

Laura McLean

Coastal Energy Review Specialist

Laura.McLean@dos.ny.gov

For more information, visit:

<https://www.nyserda.ny.gov/All-Programs/Programs/Offshore-Wind/Focus-Areas/Connecting-With-New-Yorkers/Technical-Working-Groups>