



**SOUTHEASTERN**  
WIND COALITION

# North Carolina Offshore Wind

---

# SEWC Overview

---

- SEWC focuses on outreach and education to advance the wind industry in the Southeast. We take an objective, data-driven, and business focused approach to understanding and communicating the economic case for wind energy in the Southeast
- SEWC's footprint covers 11 states in the Southeast to promote land-based wind, offshore wind, and wind imports
- We promote collaboration and information sharing to make wind a more viable option

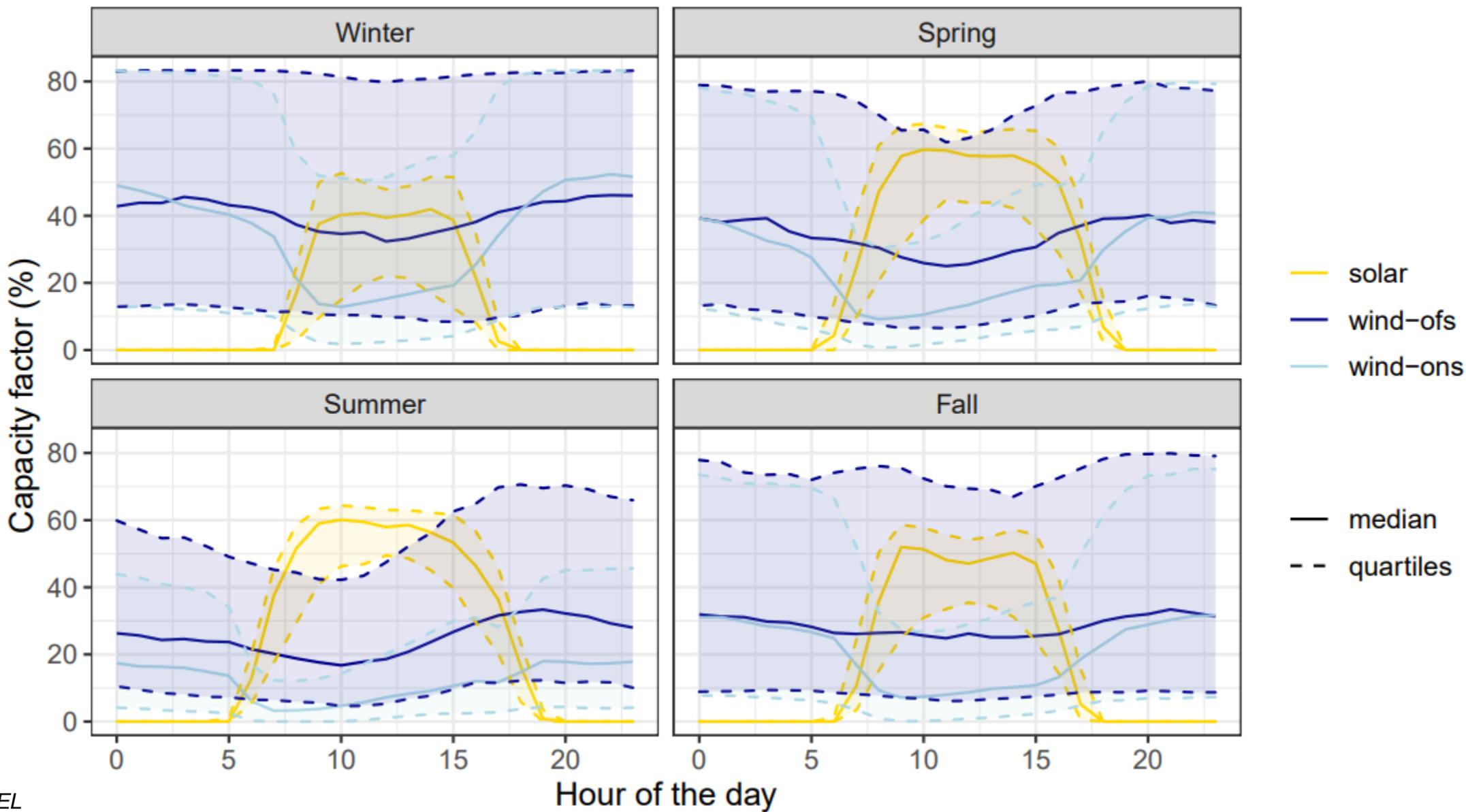


**SOUTHEASTERN**  
WIND COALITION

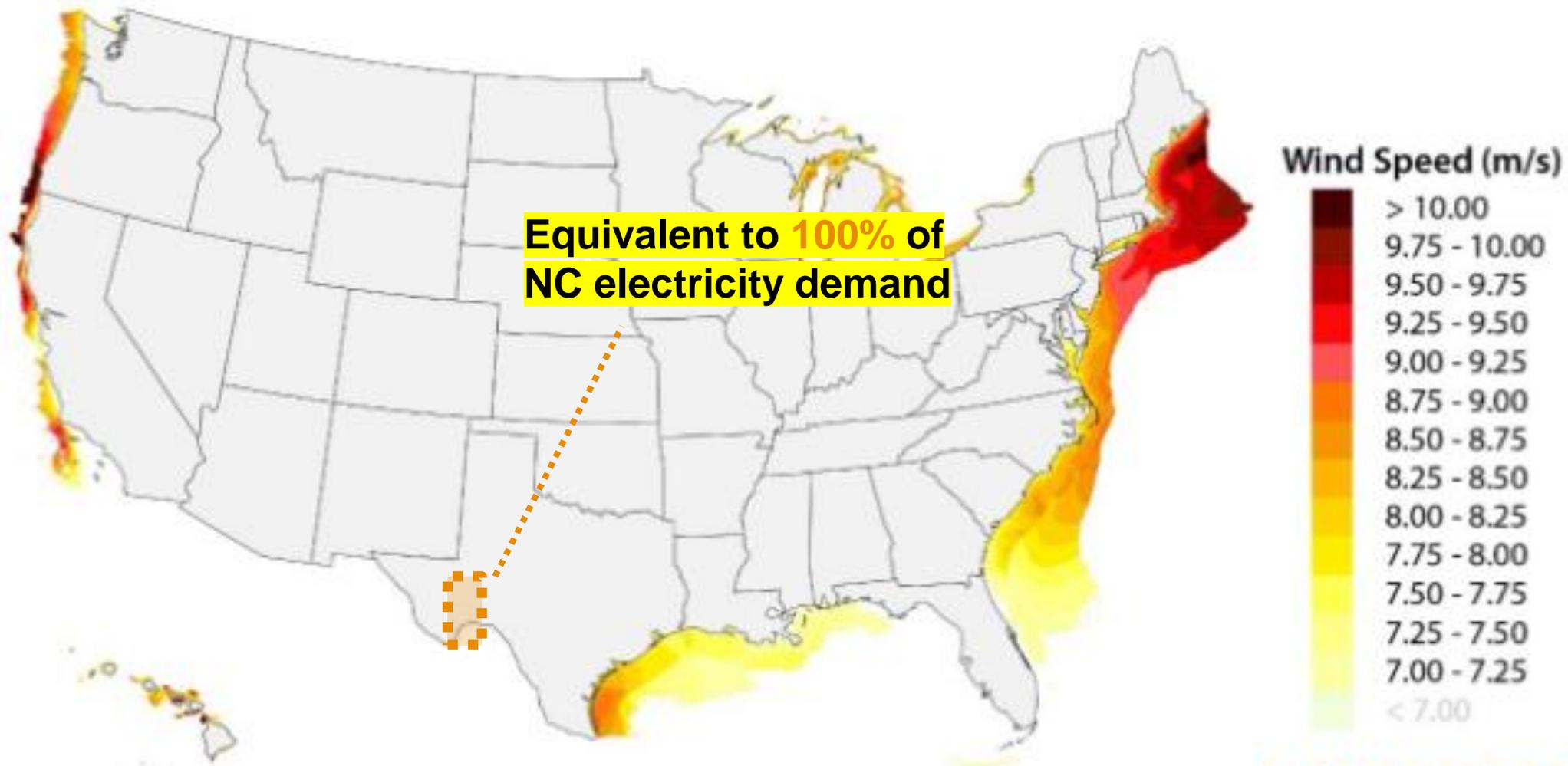
# Why Offshore Wind?

---

# Wind and solar capacity factors in the Carolinas



Source: NREL



Equivalent to 100% of NC electricity demand

Lower 48 Data Source: AWS Truepower 0-50nm; NREL WIND Toolkit beyond 50nm.  
 Hawaii Data Source: AWS Truepower 0-12nm; Vaisala/3Tier 12-50nm; linear extraction by NREL to 200nm.



# Benefits for All of North Carolina

---



- Supply Chain
  - [Special Initiative on Offshore Wind report](#) - \$70 billion supply chain CAPEX opportunity for 18 GW of planned development
  - BVG Associates - \$140 billion by 2035
- Tourism
  - [U of RI study](#) - 19% increase in occupancy and \$3,500 annual rental income increase from Block Island
- Ports
  - Diversification
  - Infrastructure investments
    - Ex: [Baystate Wind & Connecticut](#) - \$93 million partnership

# Why Now?

---

# Competition for Investment



- Eastern seaboard states have identified this massive economic opportunity and are already setting aggressive goals to help secure the demand necessary to attract the manufacturing supply chain

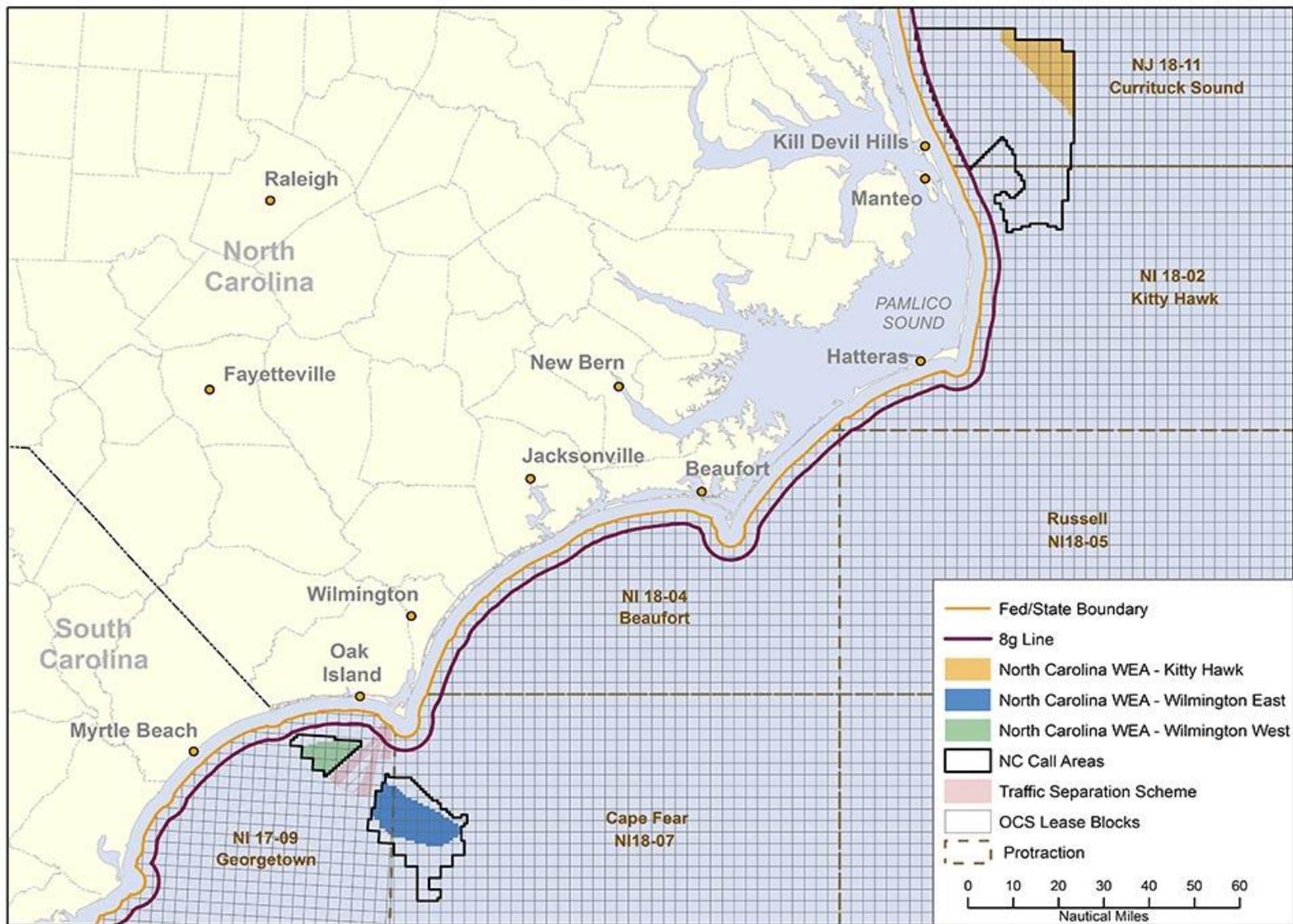
- New York – 9,000 MW
- New Jersey – 7,500 MW
- Massachusetts – 5,600 MW
- Virginia – 5,200 MW
- Connecticut – 2,000 MW
- Maryland – 1,400 MW
- Rhode Island – 400 MW

# Kitty Hawk Wind Project

- Under development by Avangrid Renewables
  - 122,405 acres
  - Up to 2,500 MW
  - Enough to power up to 700,000 homes
  - Begins ~27 nautical miles offshore
- Construction & Operations Plan (COP) submitted to BOEM, anticipates \$2 billion in economic impact and the creation of over 800 jobs for VA & NC

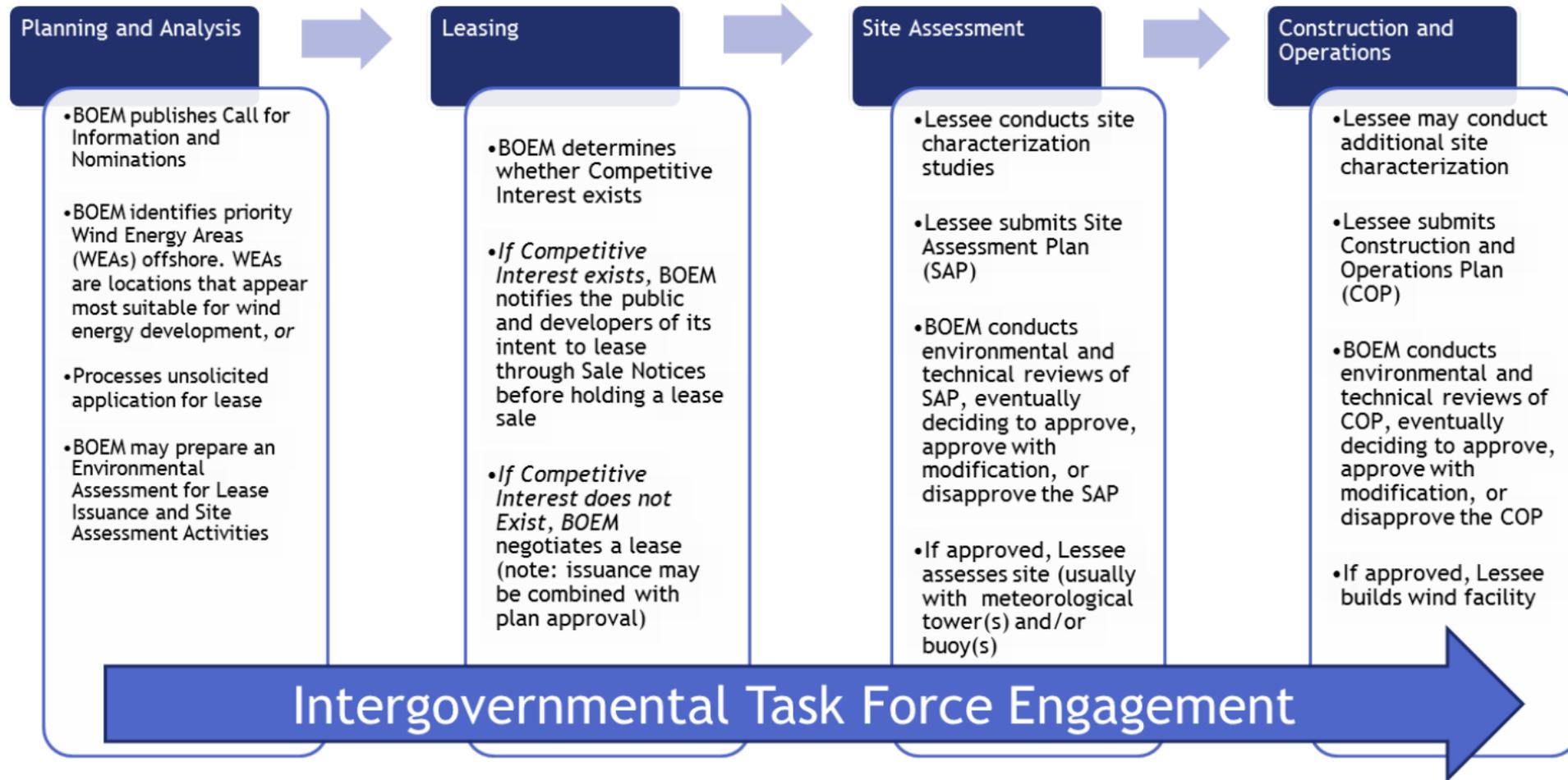


### Wind Energy Areas (WEAs) - North Carolina



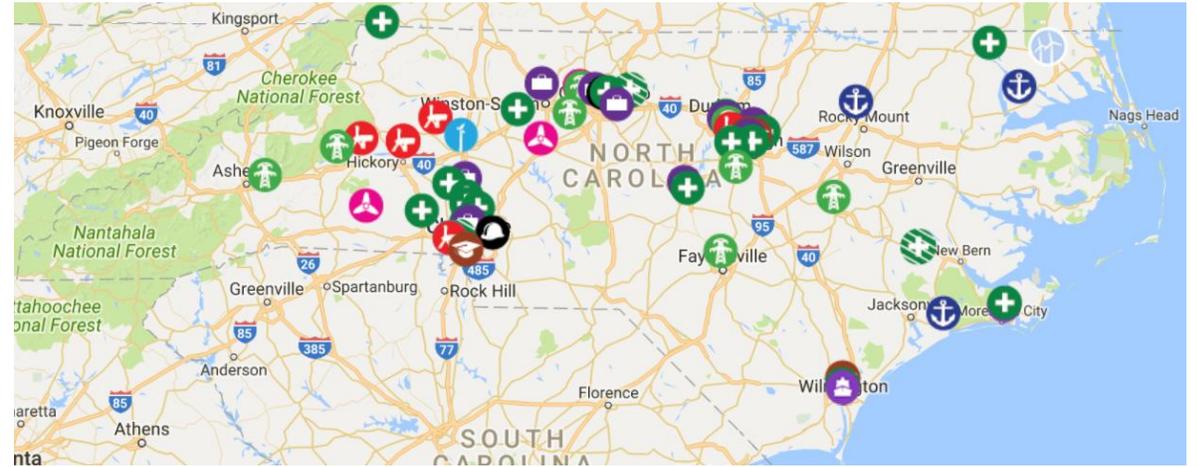
Map ID: PACB-2014-1060

# BOEM Lease Process



# North Carolina's Advantage

- 1st in offshore wind resource potential on the east coast
- 55+ existing land-based wind supply chain companies
  - 1,062 jobs in wind energy in 2018
  - \$440M in revenues from wind companies
- Largest manufacturing workforce in the Southeast
- Two deep-water ports with robust rail, road, and air infrastructure
- World-class university and community college system



Source: Southeastern Wind Coalition Supply Chain Asset Map



Southwire®



comer industries



# North Carolina Progress

---

- North Carolina Clean Energy Plan
- Offshore Wind Supply Chain & Infrastructure Study
  - Dept. of Commerce contracted with BVG Associates, NC State University, and others
- SMART-POWER Memorandum of Understanding (MOU)
  - Regional partnership with VA & MD
- First commercial-scale project sourcing onshore cabling from Southwire's N.C. facility
- NC leadership letters to BOEM
  - Governor Cooper – March 2021
  - Bipartisan group from NC congressional delegation – April 2021
- North Carolina Transmission Planning Collaborative (NCTPC)
  - Offshore wind transmission study to understand grid needs
- Duke Energy's Integrated Resource Plans (IRP)
  - Offshore wind included in multiple planning scenarios for the first time

# N.C. Voters Support Offshore Wind

- More than seven in 10 N.C. voters support the development of offshore wind farms, and the necessary laws and regulation to promote future projects
- Nearly 90% of North Carolina voters say renewable energy is important to the state's future, and 77% agree the primary goal of North Carolina's energy policy should be achieving 100% clean energy



Offshore wind will be key to achieving this goal

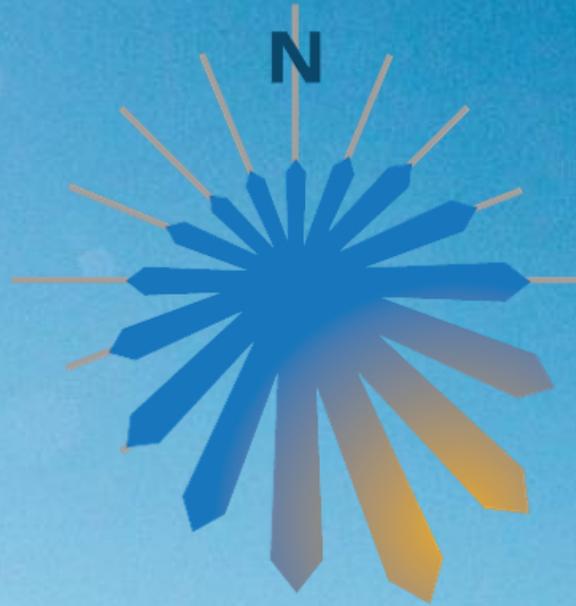
# Economic Potential by the Numbers

---

An analysis utilizing the National Renewable Energy Lab's economic modeling tool for a 2,400-megawatt offshore wind farm off the coast of North Carolina in 2030 demonstrates the significant **local** economic opportunity this industry presents

- During construction
  - 10,477 FTE jobs
  - \$2.8 billion in economic output
- During operations
  - 723 annual FTE jobs
  - \$4.5 billion in lifetime economic output





# SOUTHEASTERN WIND COALITION

JAIME SIMMONS | PROGRAM MANAGER  
jaimes@sewind.org

facebook.com/southeasternwindcoalition 

@sewindco 

linkedin.com/company/southeastern-wind-coalition 