

# Overview of upcoming NC Supply Chain Training Opportunities

“Offshore Wind Ready”  
and  
“Foundation 2 Blade”

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# Agenda

1. **Introduction to Oceantic Network [the Network]**
2. **Quick Look at Offshore Wind**
3. **Training Course: Offshore Wind Ready: Manufacturing**
4. **Trainer and Industry Experts**
5. **Data and Success Stories**
6. **Q & A**

# Oceantic Network

- 1 Focus on developing US offshore wind industry and its supply chain
- 2 Non-profit, Membership-Based
- 3 Provide: *Market Data, Education, Training, Research, and Introductions*

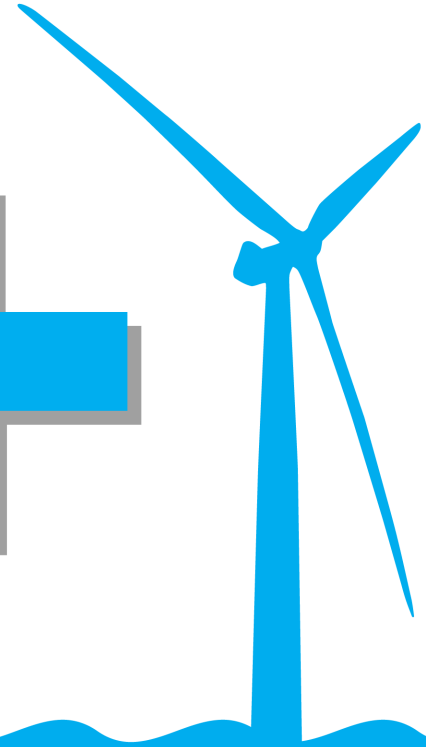
At the Oceantic Network (formerly the Business Network for Offshore Wind), our driving purpose is to inform, coordinate, and mobilize human ingenuity, enterprise, and labor to take advantage of the urgent need to tap the vast renewable energy resources that lie offshore in the world's oceans. The collective, coordinated efforts of our members equip communities and nations to accelerate the transition to clean energy and create economic opportunities.

Over the past ten years, the Network has grown along with the industry, changing its name to expand and include industry sectors. At its ten-year mark, the Network continues to look forward and set the pace for the industry; that includes an expanded view of what offshore wind can provide the energy mix. Offshore wind is the gateway to other ocean renewables, including green hydrogen, wave energy, and more. Offshore wind as an industry will remain the main focus of the Network; however we are expanding our scope to grow and adapt as the industry does the same. With this enlarged focus, the Network changed its name from the Business Network for Offshore Wind to the Oceantic Network.

[oceantic.org](https://oceantic.org)

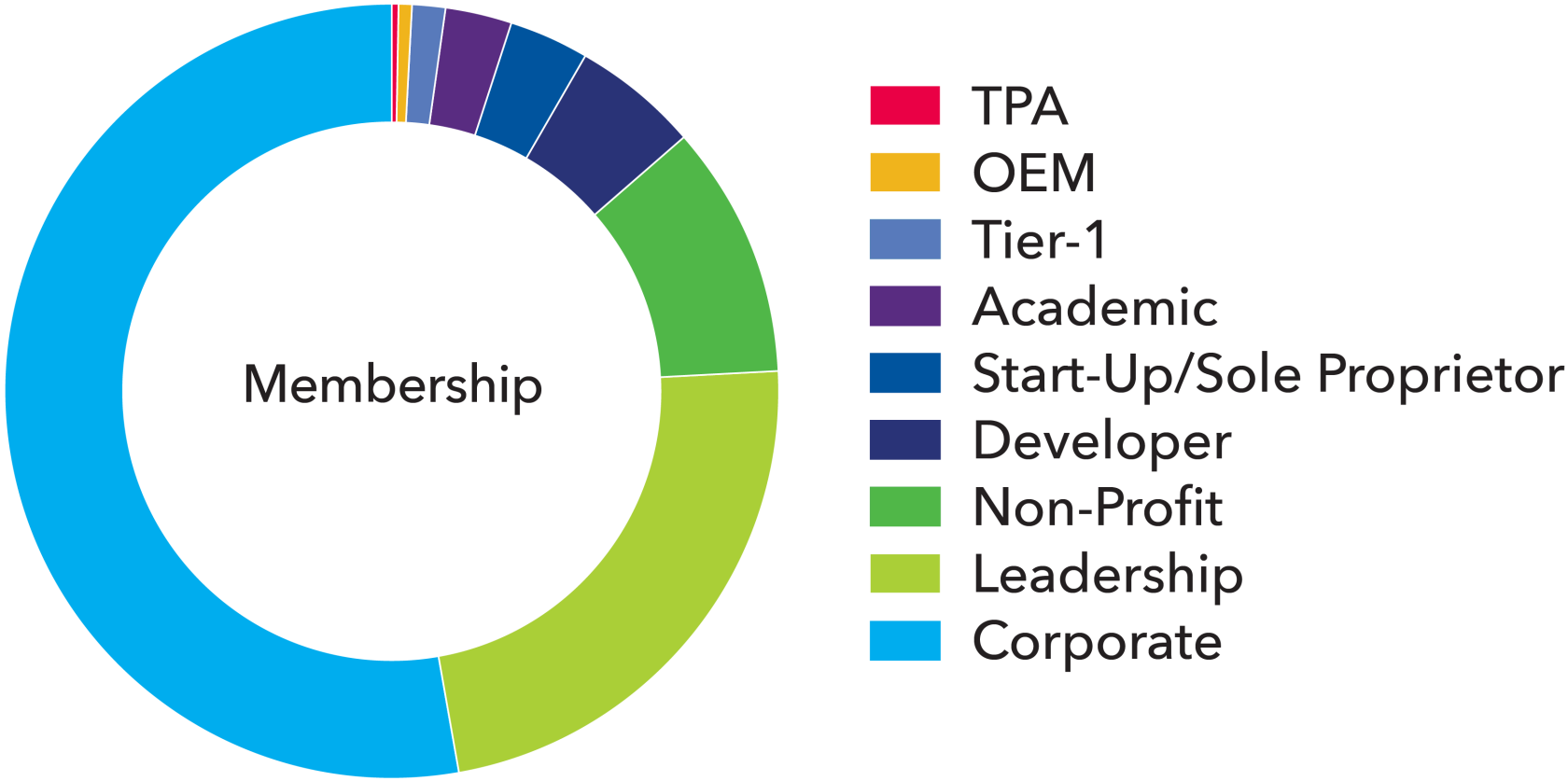


**5550+**  
**MEMBERS**



**& GROWING**

# Network Membership Distribution





**Oregon**  
*Anticipated  
Lease Sale 2024*

✓ **Northern  
& Central  
California**  
*Leased 2023*

**Gulf of Maine**  
*Anticipated  
Lease Sale 2024*

**New York Bight** ✓  
*Leased 2022*

**Central Atlantic**  
*Anticipated Lease Sale 2024  
Possible 2nd Round in 2025*

**Carolina Long Bay** ✓  
*Leased 2022*

✓ **Gulf of Mexico**  
*Leased 2023  
Possible 2nd Round in 2025*

- Possible Puerto Rico Call in 2023
- New York Identifying New Areas

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# U.S. OFFSHORE WIND MARKET

THE PATH FORWARD: 2021-2025



# 30 GW by 2030: Outlook & Needs



**2,100** WIND TURBINES & FOUNDATIONS

**6,300** BLADES

**7,100 MILES** OF CABLE



**5-6** WIND TURBINE INSTALLATION VESSELS

**4** CABLE LAY VESSELS

**10** TRANSPORT VESSELS

**58** CREW TRANSFER VESSELS

**11** SERVICE OPERATION VESSELS

**2** SCOUR PROTECTION INSTALLATION VESSELS

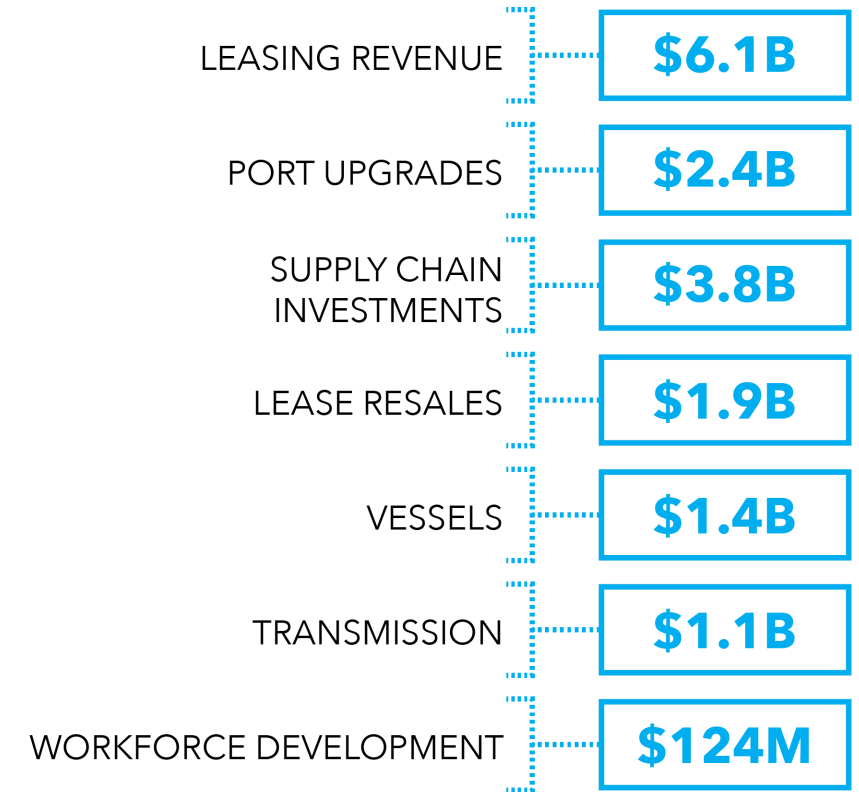
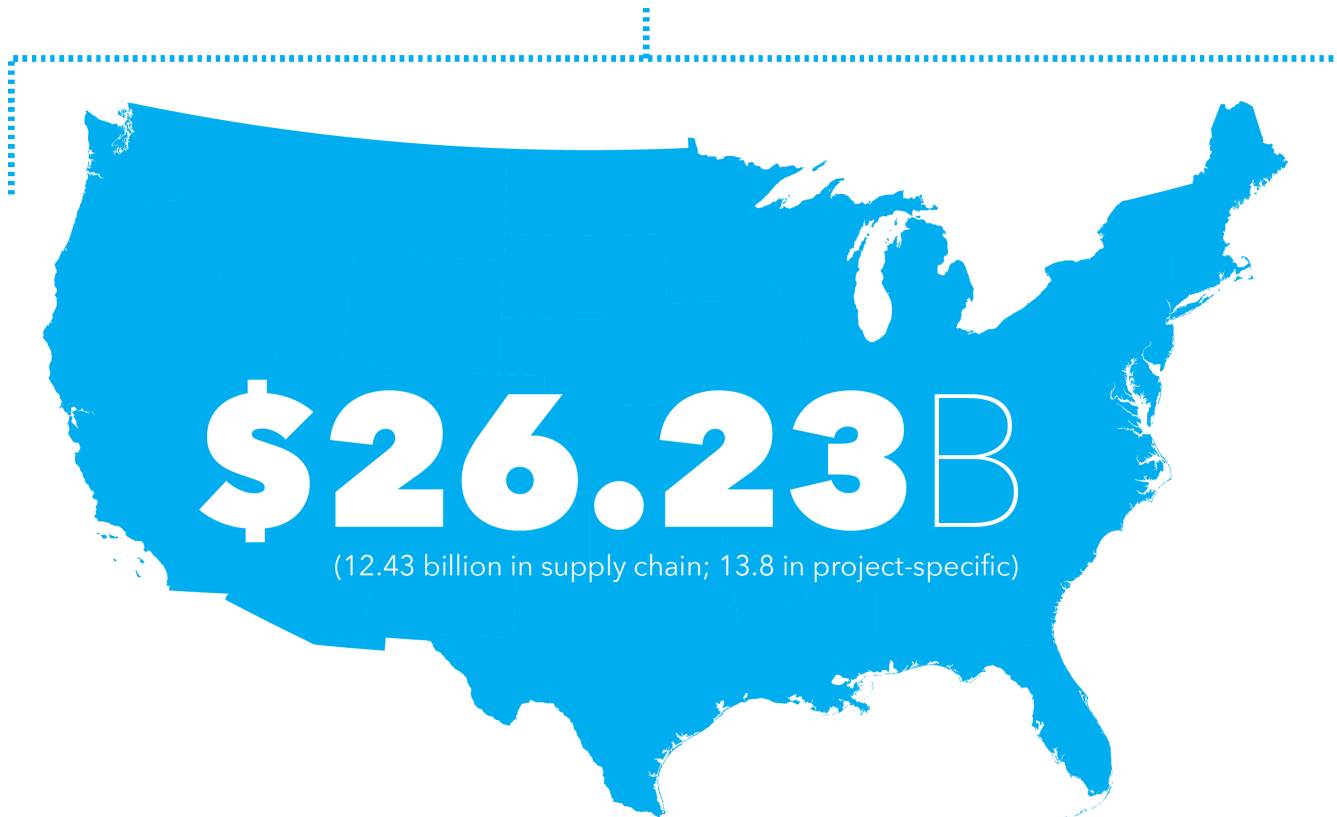


**12,300-49,000** TRAINED WORKERS

*Source: NREL*

# Investments in U.S. Market

## TOTAL INVESTMENTS



**\$9.8B OF INVESTMENTS MADE IN 2022**

# Provisional Winners of NC Long Bay

**\$315M** in lease bids

## OCS-A 0545

TotalEnergies Renewables USA, LLC  
**\$160M**

## OCS-A 0546

Duke Energy Renewables Wind, LLC  
**\$155M**

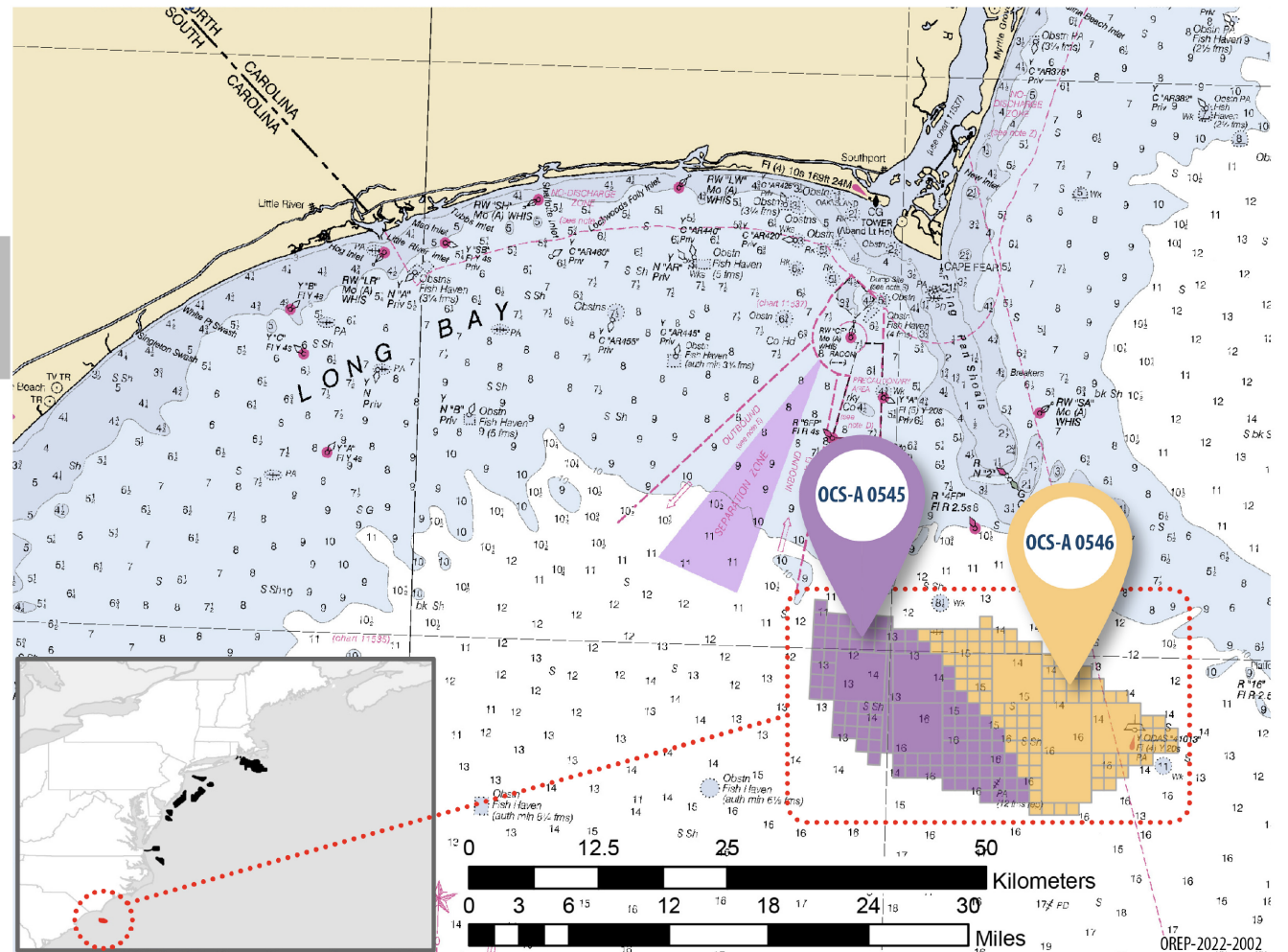



Image courtesy of BOEM 

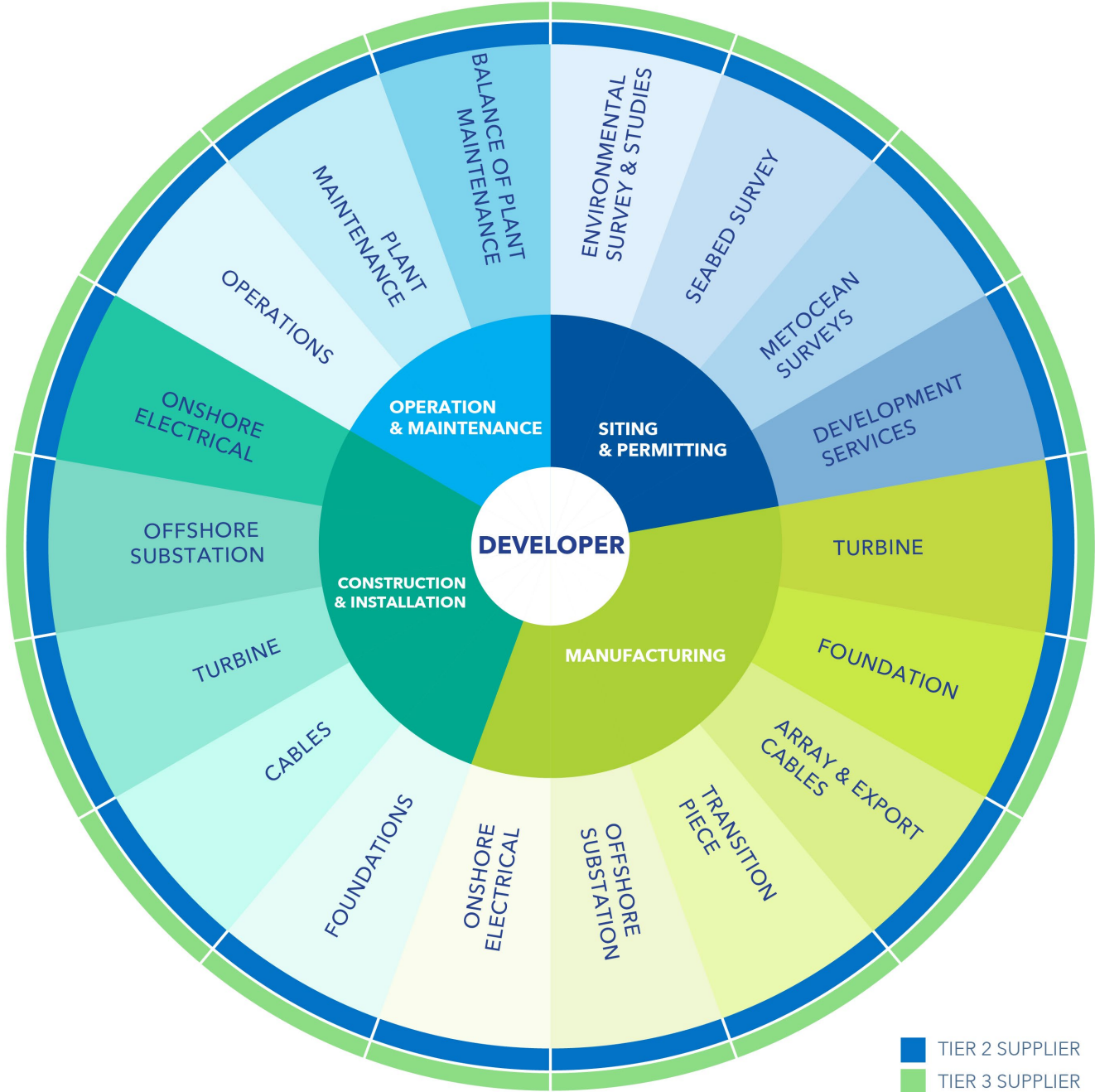
# Course Objectives

The objective of 'Offshore Wind Ready: Manufacturing' is to provide an overview of standardization, serial fabrication, and the optimization of the manufacturing process within the local supply chain.

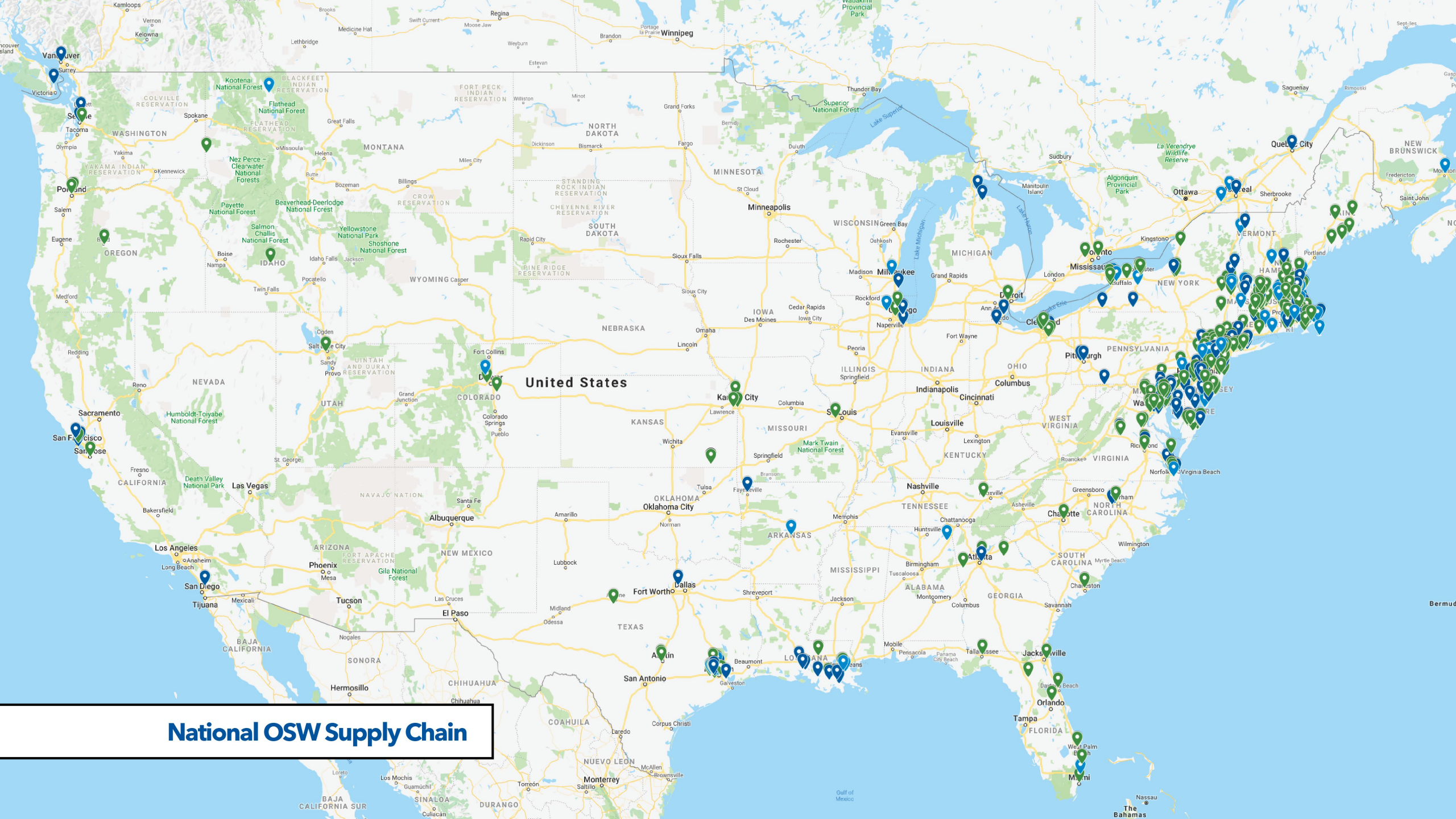
The course will also explain the five phases of project development and how to determine your best possible entry into the supply chain.

Onshore and offshore substations, along with offshore wind purpose-built vessels will be discussed. The training will also explain how driving standardization across substructure design, when paired with streamlining the serial fabrication process, is critical for the supply chain to mitigate challenges.

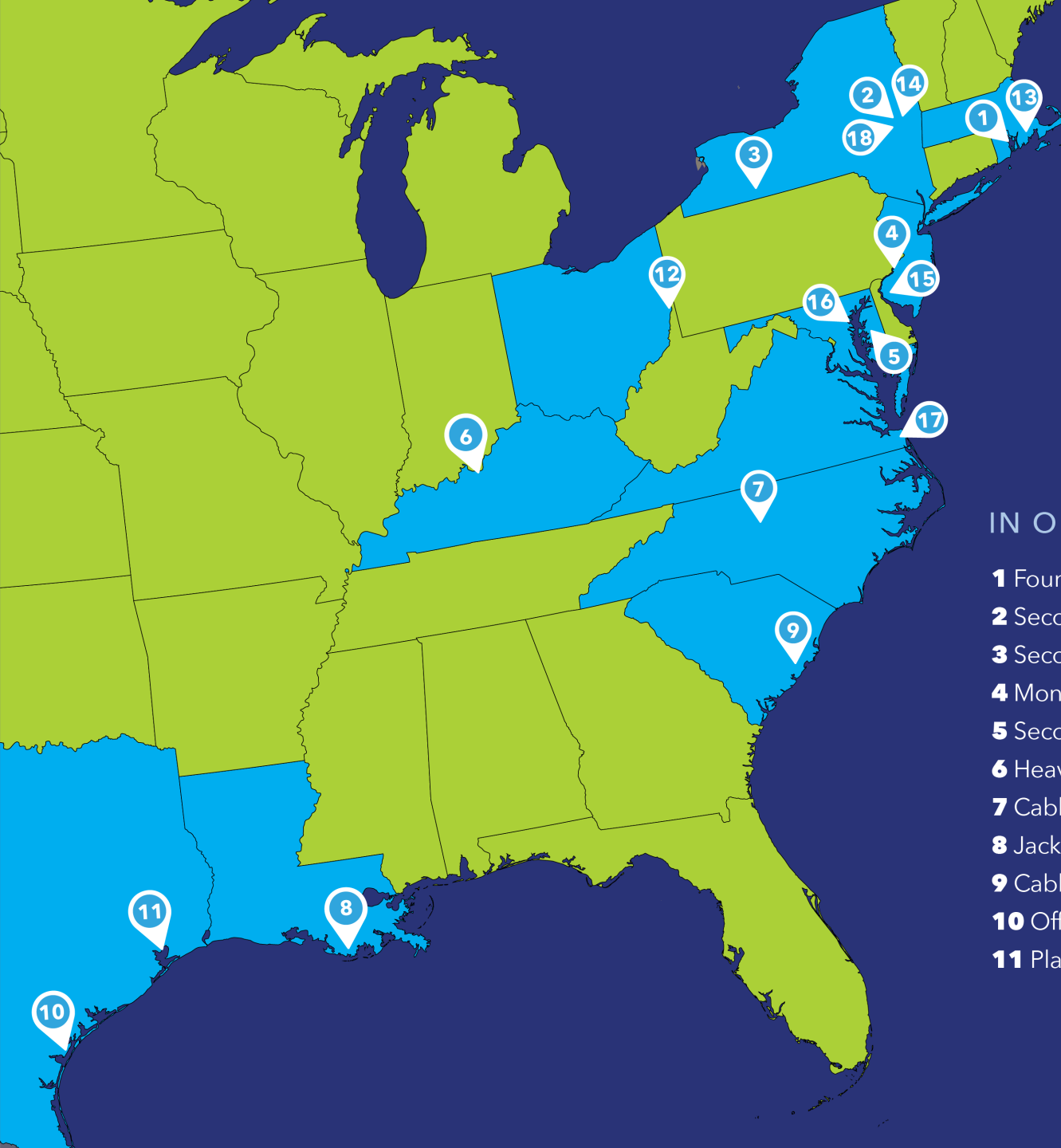
# Supply Chain Capacity



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# National OSW Supply Chain



# U.S. OFFSHORE WIND COMPONENT MANUFACTURING

## IN OPERATION

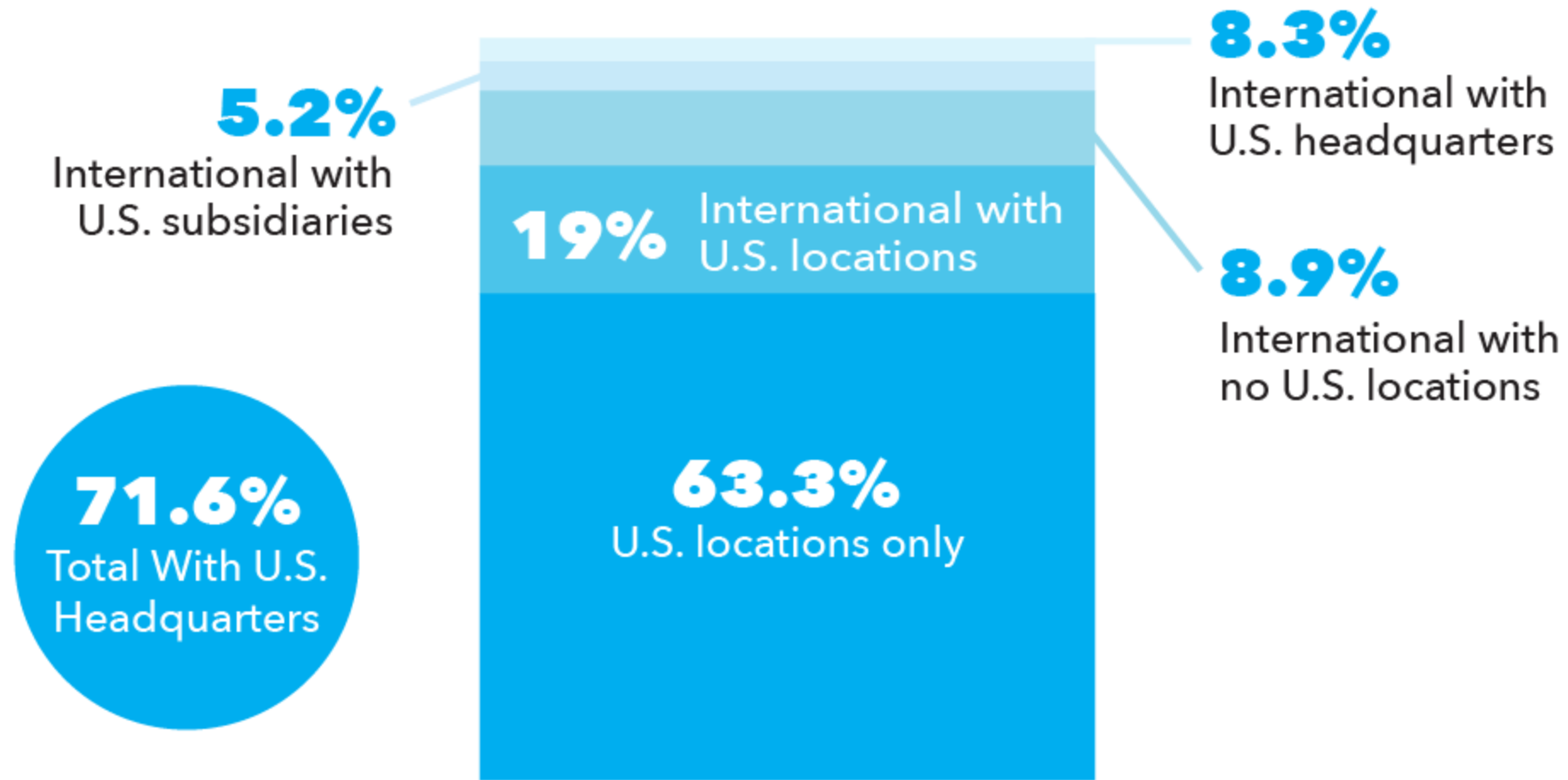
- 1** Foundation Components / Providence, RI
- 2** Secondary Steel / Port of Coeymans, NY
- 3** Secondary Steel / Wellsville, NY
- 4** Monopiles / Paulsboro, NJ
- 5** Secondary Steel / Federalsburg, MD
- 6** Heavy Plate Steel / Brandenburg, KY
- 7** Cables / Huntersville, NC
- 8** Jacket Foundations / Houma, LA
- 9** Cables / Charleston, SC
- 10** Offshore Substation / Ingleside, TX
- 11** Plate Steel / Baytown, TX

## PLANNED

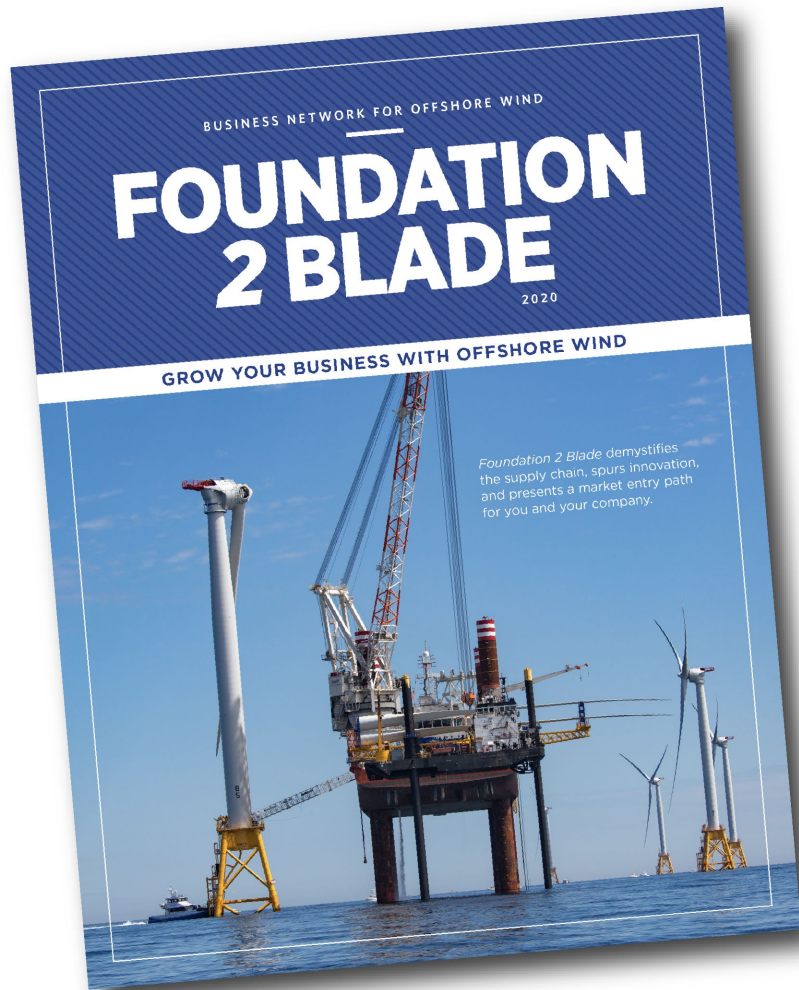
- 12** Steel Slabs / Mingo Junction, OH
- 13** Cables / Brayton Point, MA
- 14** Tower & Transition Pieces / Albany, NY
- 15** Nacelles / Alloways Creek, NJ
- 16** Tower, Monopile, Cables / Baltimore, MD
- 17** Blades / Portsmouth, VA
- 18** Blades and Nacelles / Port of Coeymans, NY

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# Companies Awarded Contracts







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# FOUNDATION 2 BLADE

INDUSTRY TRAINING

Foundation 2 Blade is an extensive training program designed to help companies identify where they fit into the growing offshore wind supply chain and create more opportunities to capitalize on prospective leads. F2B's training course features six modules that demystify the supply chain, spur innovation, and present a market entry path for a company.

# Meet Your Trainer

Ester serves as an Industry Trainer and Knowledge Manager for the Network, which she joined in 2022. In this role she trains groups on offshore wind projects and how to get involved in the supply chain. She also oversees the Network's content and creates knowledge resources for both internal and external use.

Before joining the Network, Ester was a local representative and sales agent in the sustainability field in New Orleans, where projects in stormwater management and green infrastructure helped to combat flooding and subsidence in the city. Prior to that, she gained international experience and business acumen working in professional development and both project and knowledge management in Asia, Europe, and the Middle East.

Ester received a bachelor's degree from the University of Antwerp and a master's degree from York Saint John University.

Originally from the Netherlands, Ester resides in North Carolina with her husband, cat, and dog, where she enjoys native and herb gardening and the generous southern culture including its spicy foods and great music. Besides gardening and time with her family, she loves starting the day by meditating and feeding the many birds in the yard.



**Director of Industry Education**

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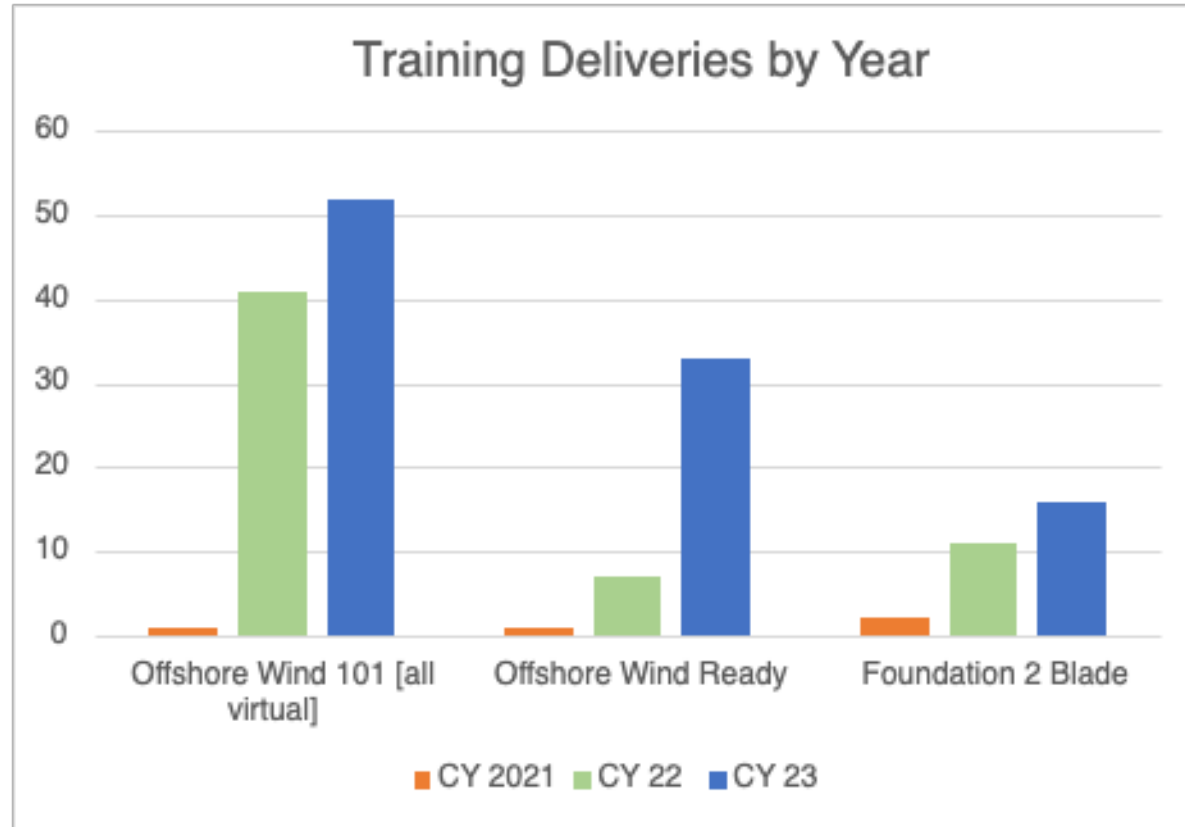
**B.A., University of Antwerp**

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**M.A., York Saint John University**

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# Training Data 2021-2023



## Success Stories:

- Bluewave Imagery
- Saildrone
- Strum Contracting
- Crystal Steel
- Zago Manufacturing

# Thank You



## Questions

