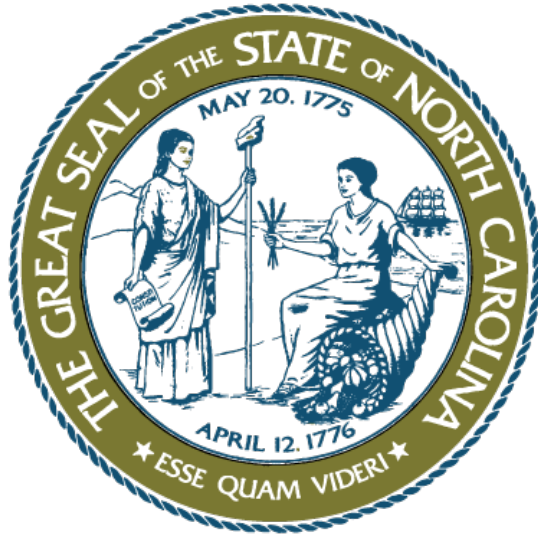


NORTH CAROLINA STATE UNIVERSITY
KIETS CLIMATE LEADERS FALL SYMPOSIUM
THURSDAY SEPTEMBER 28, 2023

North Carolina Clean Energy Policies, Initiatives, and Opportunities

JENNIFER MUNDT, ASSISTANT SECRETARY
CLEAN ENERGY AND ECONOMIC DEVELOPMENT



NORTH CAROLINA
DEPARTMENT of
COMMERCE

Our mission is to improve the economic well-being and quality of life for all North Carolinians.

To do that, the Department works closely with local, regional, national and international organizations to propel economic, community and workforce development for the state.

Overview

- **NC's Clean Energy Progress**
- **NC's Clean Energy Opportunities**
- ***Your* Clean Energy Opportunities**

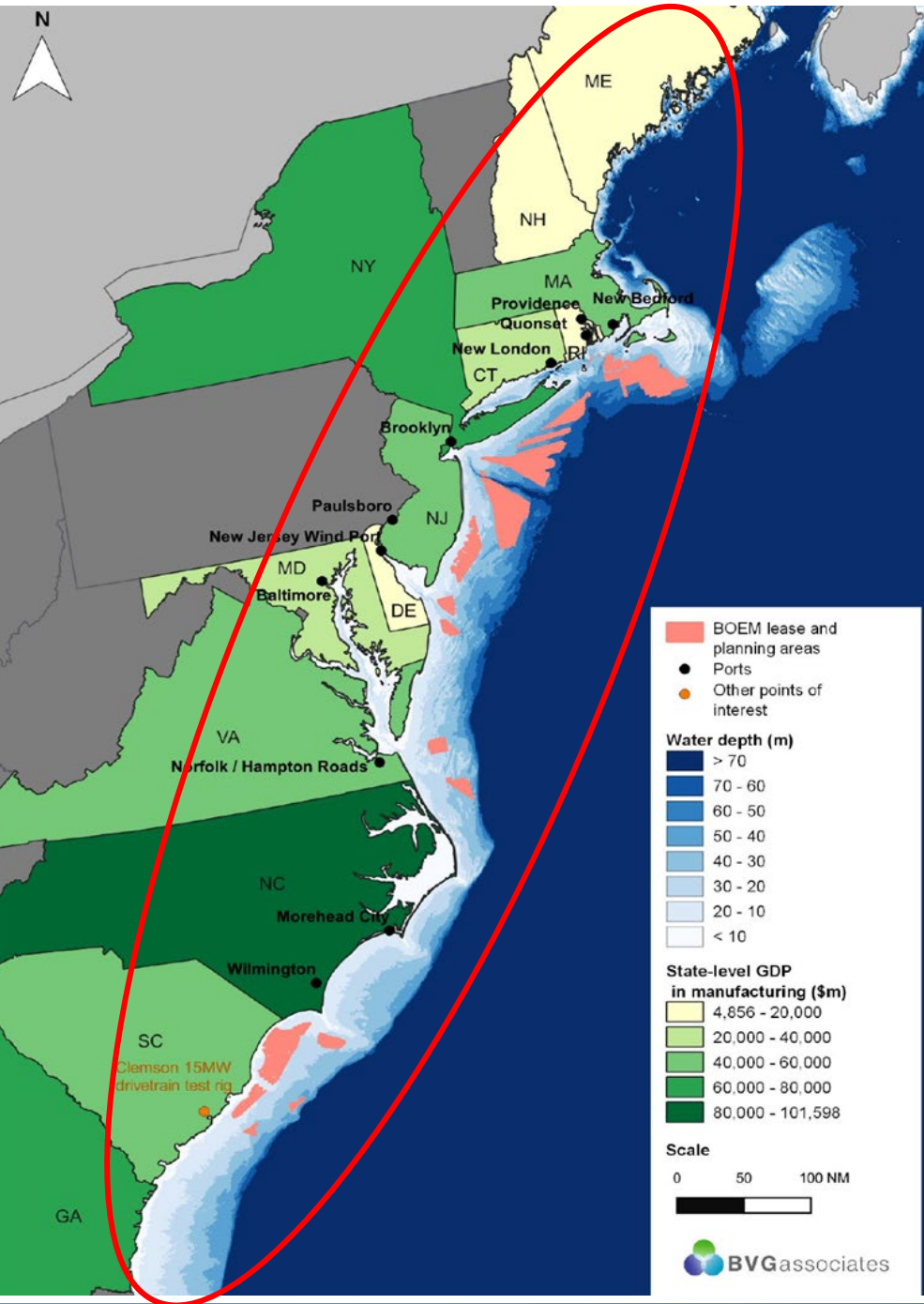


Photo: Orsted

NC Clean Energy Policies and Initiatives

- In 2018, Governor signed E.O. 80 *NC Clean Energy Plan* =
Dozens of recommendations and reports, including
 - *Building NC's OSW Supply Chain*
 - *Clean Energy Workforce Assessment*
- In 2021, bipartisan legislation *HB 951 – Energy Solutions for North Carolina*





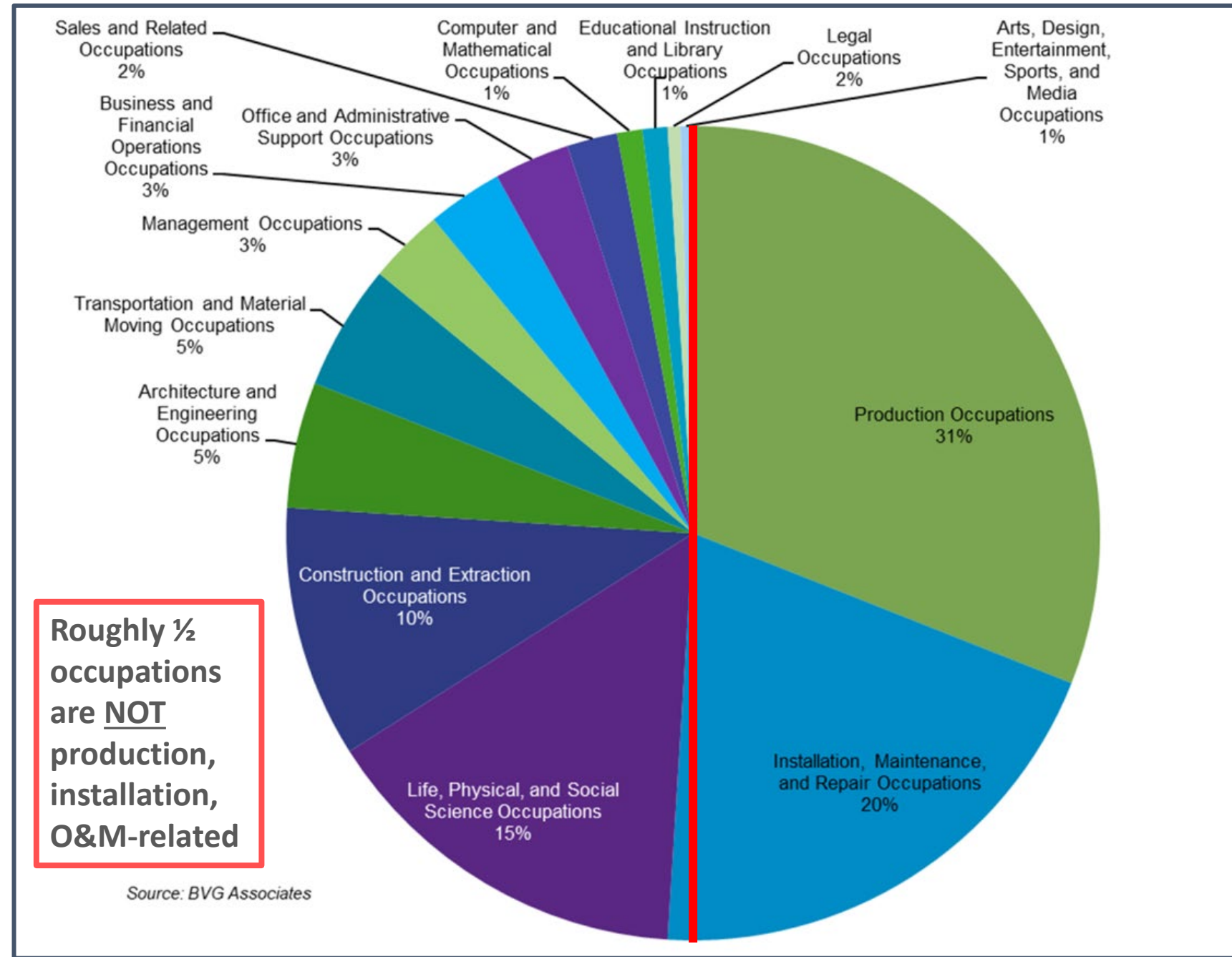
North Carolina

An OSW Manufacturing Powerhouse

1. Ranks 5th for manufacturing GDP in U.S. & 1st on East Coast
2. Employs > 470,000 workers at 10,250 companies (1st in Southeast)
3. Can supply major-, lower-level components, and materials for entire East Coast OSW market

Offshore Wind

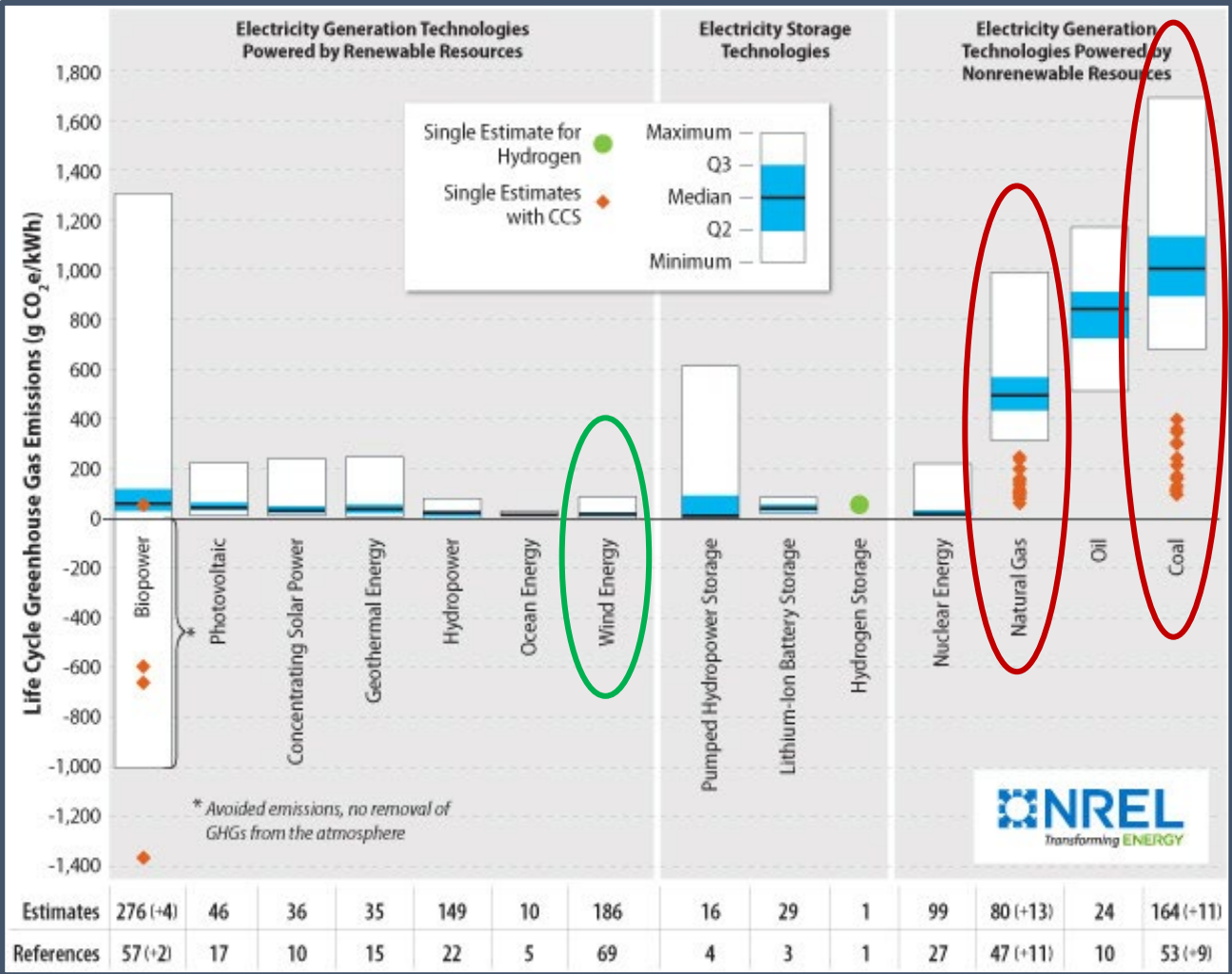
A Job in Every Trade / Occupation



Offshore Wind

Renewable, Sustainable, Carbon-Free Energy Resource

Wind power has a comparatively modest life-cycle greenhouse gas emissions footprint



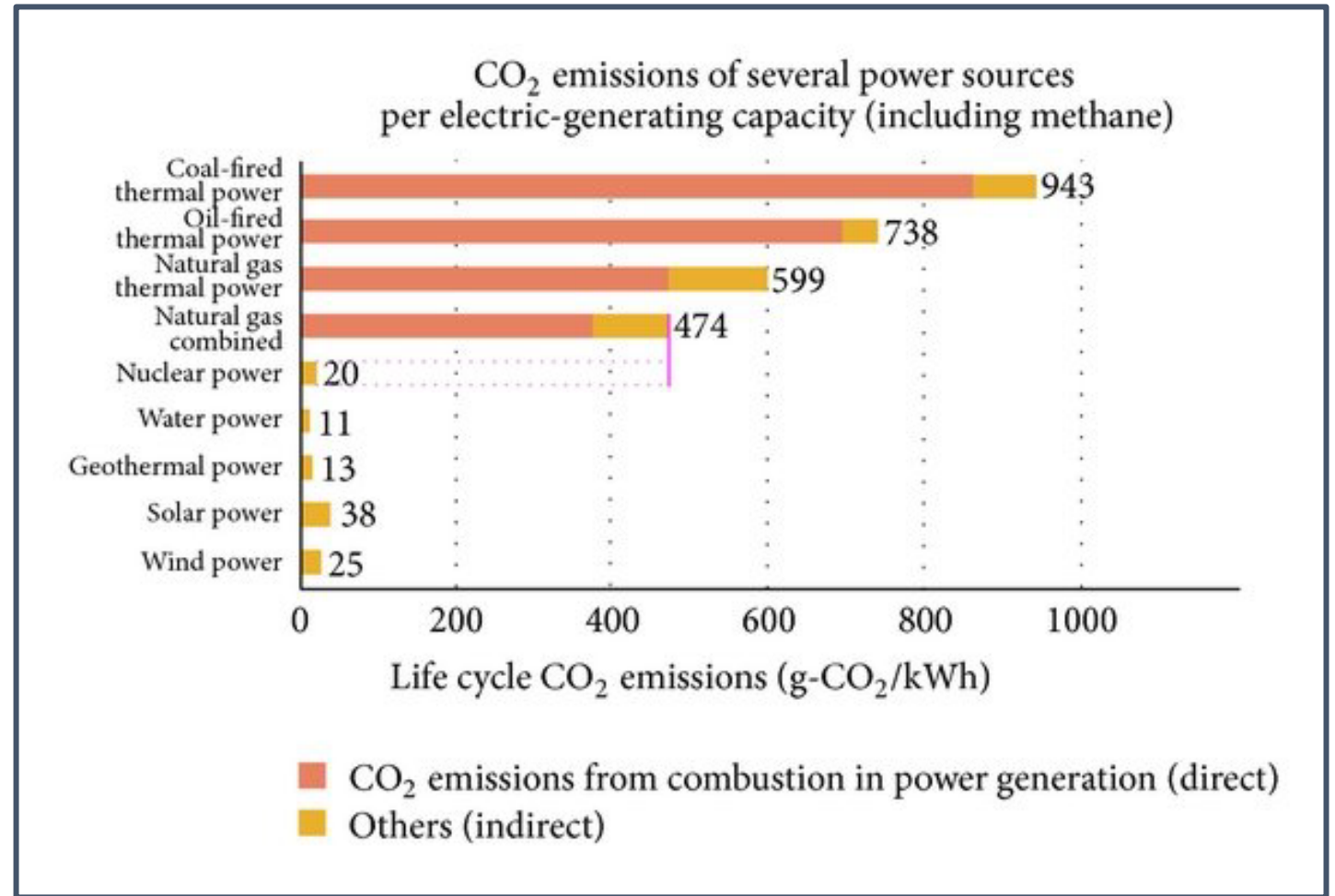
<https://www.nrel.gov/analysis/life-cycle-assessment.html>

Offshore Wind

Renewable, Sustainable, C-Free Energy Resource (cont'd)

Wind turbines average just 25 grams of CO₂ emissions per kilowatt-hour (kWh) of electricity generated compared to:

- Solar: 38g/kWh
- Natural gas: 474-599g/kWh
- Coal: 943g/kWh



Clean Energy Transition

A Win for North Carolina

In just one clean energy subsector, offshore wind can bring NC:

1. Potential \$100B economic investment
2. Job opportunities in every trade/occupation (tens of thousands)
3. Renewable, sustainable, carbon-free energy resource





commerce.nc.gov

Thank you and Questions?

JENNIFER MUNDT

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