

The background image shows a large-scale construction project for an offshore wind turbine. A yellow crane with the name "NAUTILUS" is visible, lifting a component. Two workers in safety gear are on a platform. The scene is set against a clear sky.

**A HIGH-ROAD VISION FOR
OFFSHORE WIND IN OREGON**

**OPPORTUNITY FOR
OREGON'S UNIONS &
HOW WE GET THERE**

OFFSHOREWORKSFOROREGON.COM

A HIGH-ROAD VISION FOR OFFSHORE WIND



Offshore wind energy stands to add **billions of dollars** to Oregon's economy in the coming decades. Construction of offshore wind platforms and associated infrastructure has the potential to add up to **66,000 jobs** by 2050*, in addition to jobs from operations, maintenance, and associated economic activities.



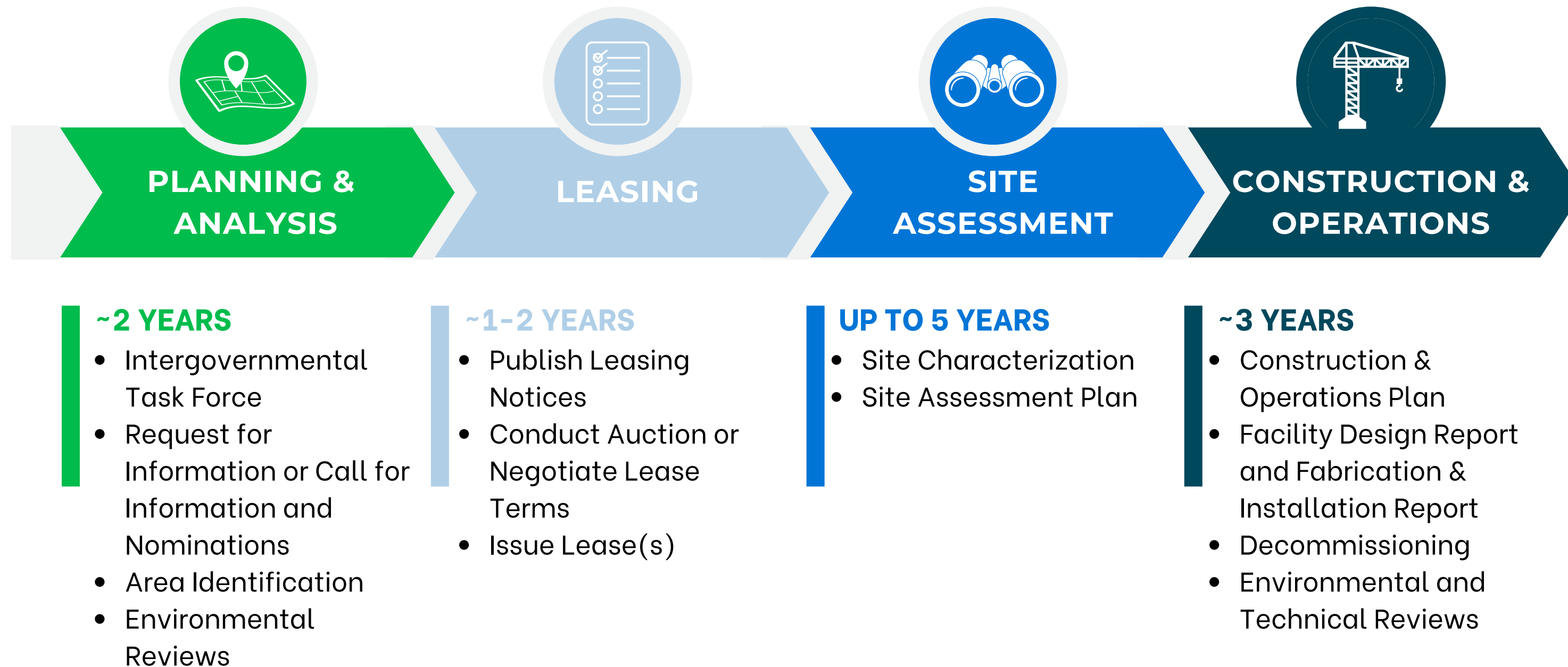
By creating a high-road vision for offshore wind development, we can ensure these are **good-paying jobs with good benefits, safe and healthy work conditions, and apprenticeship opportunities.**

*Source: National Renewable Energy Laboratory, May 2016, Floating Offshore Wind in Oregon: Potential for Jobs and Economic Impacts

OFFSHORE WIND DEVELOPMENT PROCESS



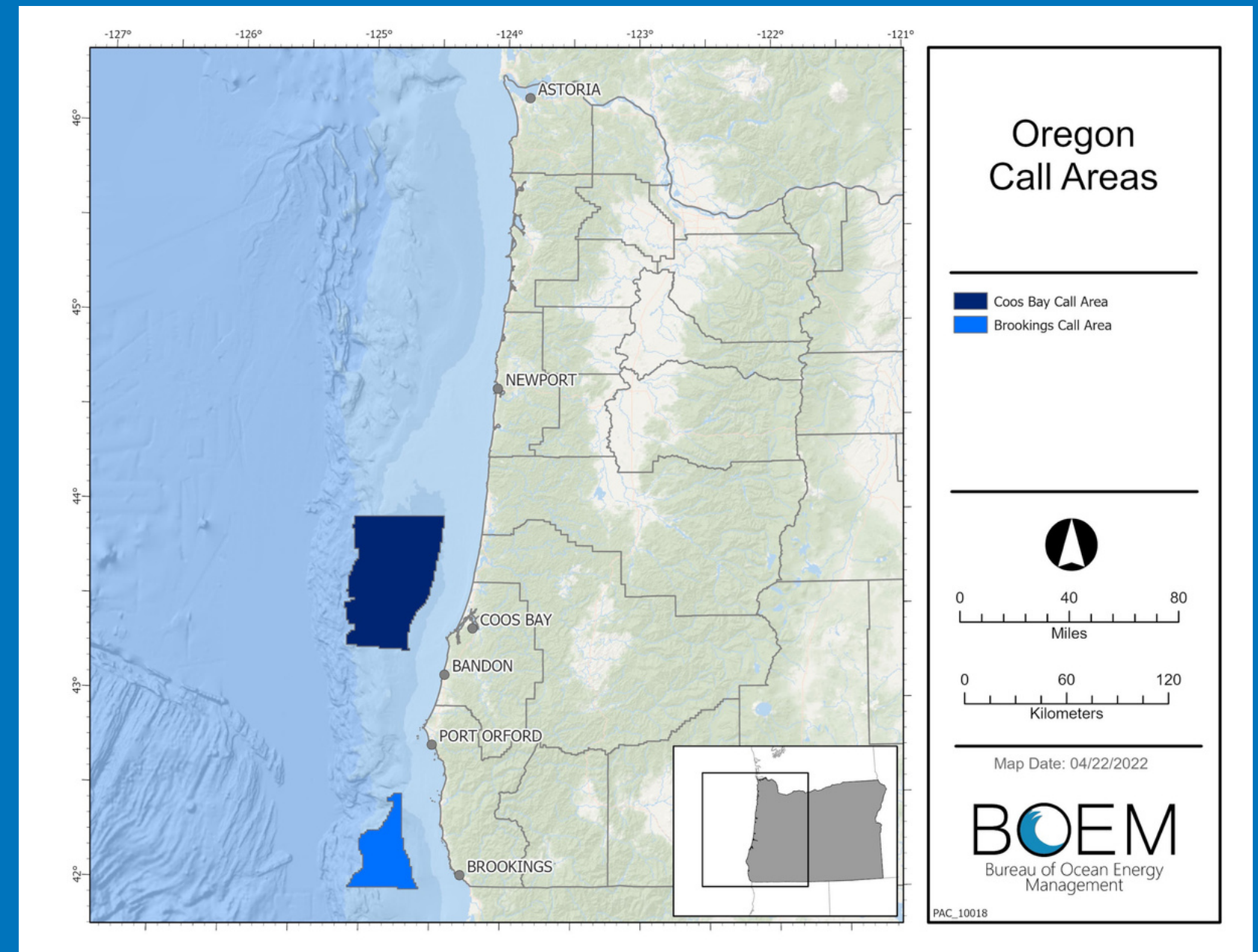
The federal Bureau of Ocean Energy Management (BOEM) selects specific areas off our coast for development, leasing those areas to developers through an auction that can provide benefits to local communities and workers. Then a rigorous federal and state review process of siting and permitting is started before projects can be built.



OFFSHORE WIND SITE SELECTION & PROCESS SO FAR

BOEM has been doing engagement and technical work for years to select a site off of the Oregon Coast.

They released the draft Call Areas (see map) selecting areas off the coast of Coos Bay & Brookings for public comment and next will release Wind Energy Areas within those Call Areas.



OPPORTUNITIES TO CREATE A PATH TO HIGH ROAD DEVELOPMENT

PROJECT LABOR AGREEMENTS

This prehire collective bargaining agreement ensures workers will be fairly compensated with safe working conditions. PLAs are already a key element of ensuring high-road, on-shore development of renewable energy in Oregon.

What it means for you: Union wages and family healthcare

COMMUNITY BENEFIT AGREEMENTS

A legally enforceable commitment by companies to support the local community and impacted stakeholders, helping mitigate any unwanted impacts and build shared prosperity.

What it means for you: Benefits to those who live in impacted Coastal areas



OPPORTUNITIES TO CREATE A PATH TO HIGH ROAD DEVELOPMENT

UNION APPRENTICESHIP & WORKFORCE TRAINING REQUIREMENTS

The complex and varied nature of development requires a high-skilled workforce to support development, construction, assembly, and operations.

What it means for you: Robust apprenticeship training and career opportunities, with pathways for underserved communities

LABOR HARMONY AGREEMENTS

An agreement with a developer to secure union neutrality, card check neutrality, commitment to a domestic supply chain, and stringent health and safety standards, wages, and benefits.

What it means for you: Protection for the right of workers to organize and be safe and supported in their job



OPPORTUNITIES TO CREATE A PATH TO HIGH ROAD DEVELOPMENT

DOMESTIC SUPPLY CHAIN

With the West Coast poised to be a key area for emerging offshore wind energy technology, requiring companies to use domestic suppliers will boost our regional economy.

What it means for you: Ensuring new manufacturing, transportation, and service sector jobs in Coastal communities and throughout the NW

LOCAL INFRASTRUCTURE CONSTRUCTION AND FLOATING WIND FABRICATION

Construction and assembly of offshore wind platforms will bring new opportunities to port communities and abundant, affordable energy will encourage new manufacturing facilities.

What it means for you: Employing local workers in the construction and fabrication of parts and components

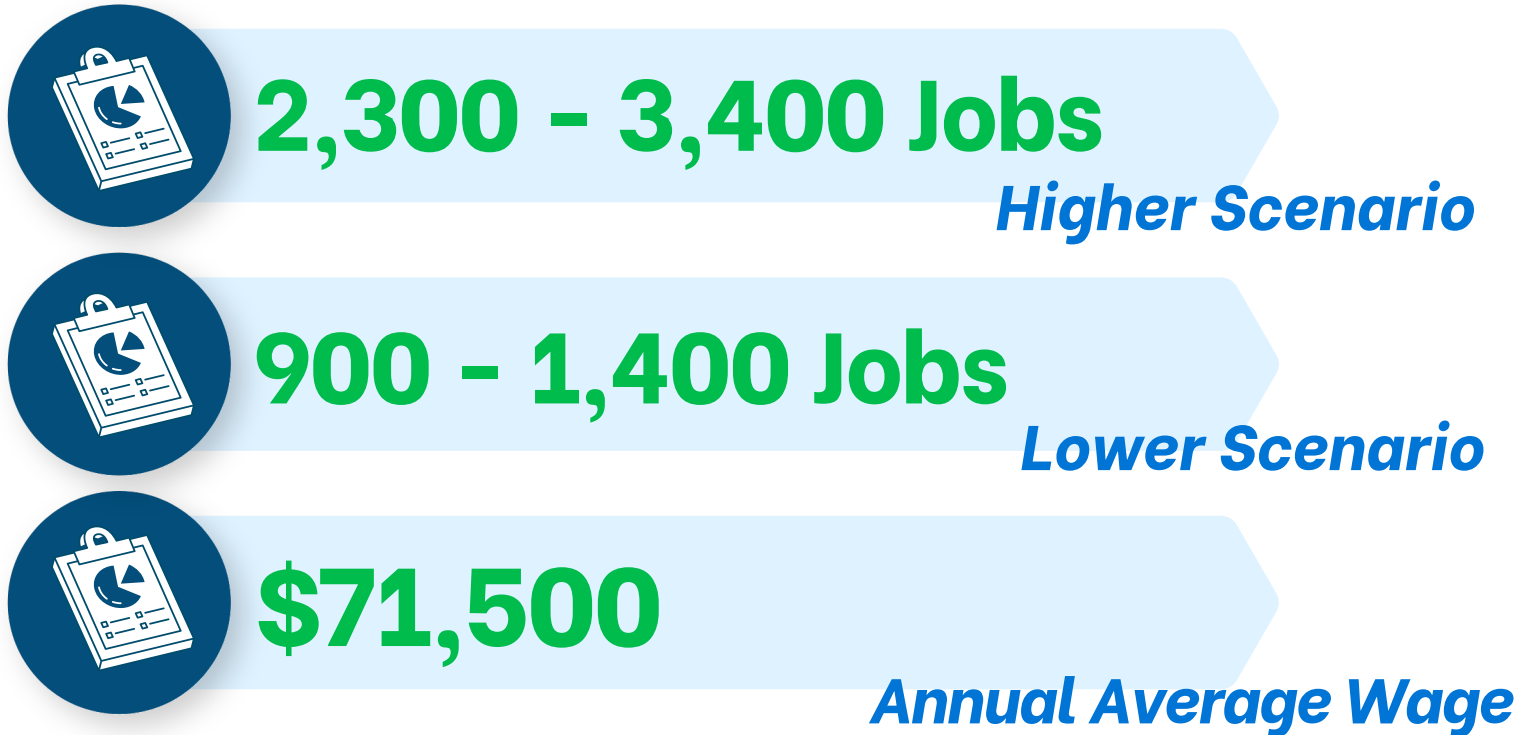


OREGON OFFSHORE WIND JOB CREATION SCENARIOS: 2023-2050

Construction



Operations & Maintenance



Higher scenario modeled on 5.5 gigawatts of energy by 2050, lower scenario modeled on 2.9 gigawatts of energy by 2050, construction job is equivalent to 1 FTE for a year. Another comprehensive workforce study will be needed to explore 3 gigawatts and different policy interventions when it comes to construction & supply chain.

Source: National Renewable Energy Laboratory, May 2016, Floating Offshore Wind in Oregon: Potential for Jobs and Economic Impacts

Engineers

Welders

Machine setters

Assemblers

Electricians

Environmental scientists

Subsea engineers

Oceanographers

Backhoe Operators

Shipping Vessel Crews

Tugboat crews

Laborers

Crane Operators

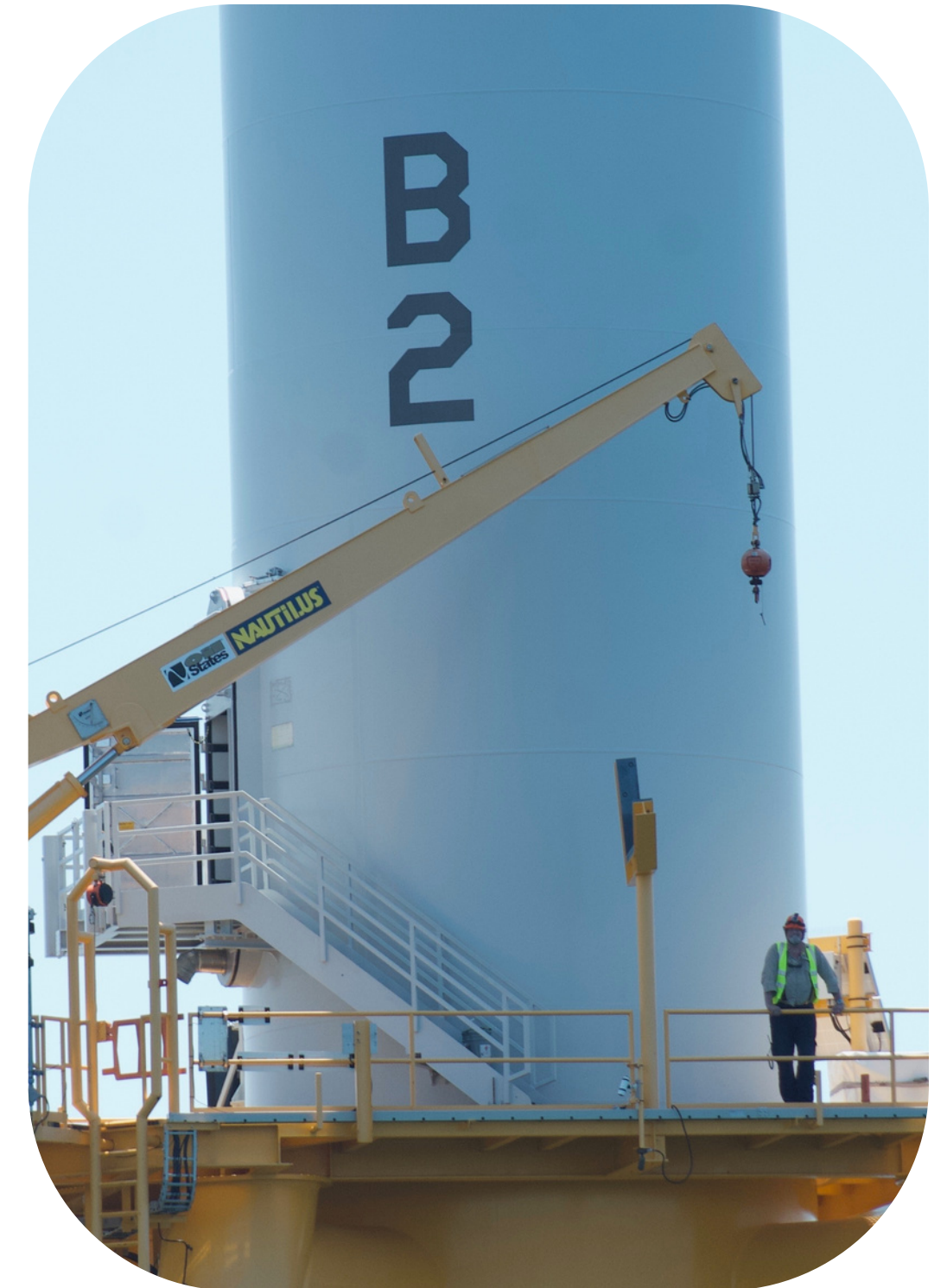
Surveyors

Turbine Technicians

Pile Drivers

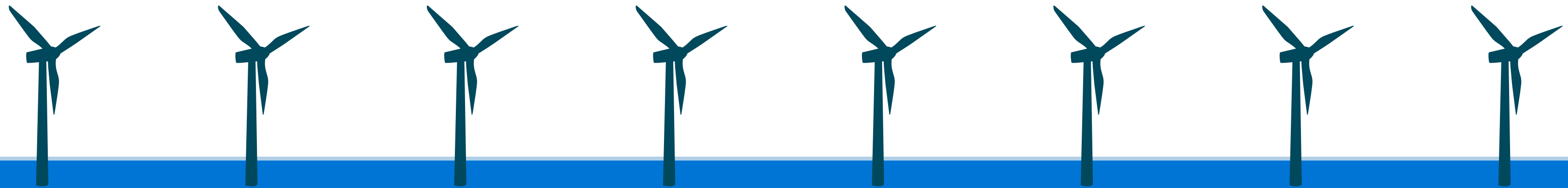
Commercial Divers

Marine Service Technicians



TYPES OF JOBS INVOLVED IN OFFSHORE WIND

FLOATING OFFSHORE WIND



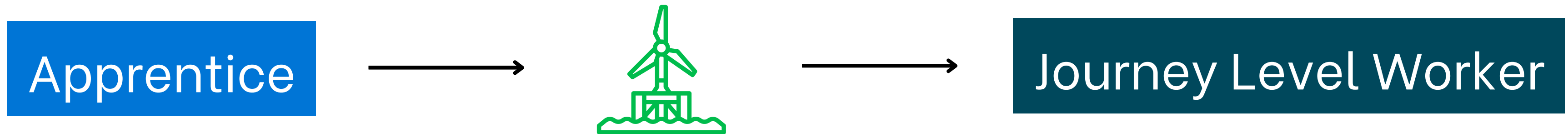
The realities of Oregon's ocean will require us to use floating offshore wind – an emerging technology being pioneered in Scotland and Portugal to harness wind energy.

California will be the first location in the United States to utilize this technology.

The wind turbines can be built and assembled on land and then towed to the offshore installation site.

This will require a skilled workforce for the development, manufacturing, staging, construction, and operations.

AN OPPORTUNITY TO JOURNEY OUT

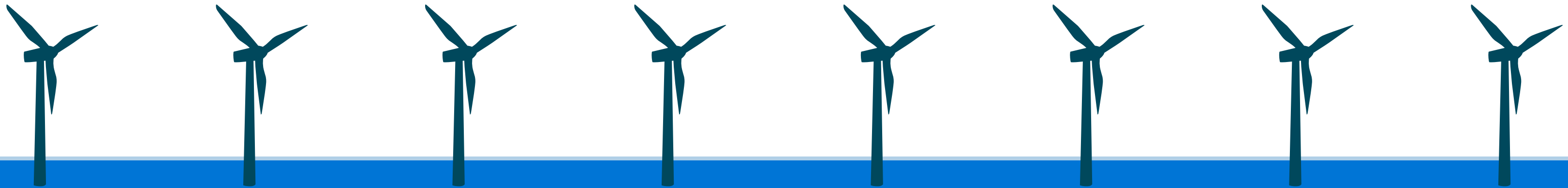


The career opportunities provided by offshore wind development – from the number of on-the-job training hours to the diversity in work available – will allow for many workers to journey out. With a high-road vision we can ensure these jobs have apprenticeship requirements that train the next generation of workers.

WORKFORCE EQUITY

Union apprenticeship programs are critical to meeting workforce equity goals, consisting of diverse groups of workers and helping support underserved communities.

AFFILIATED OFFSHORE WIND JOBS



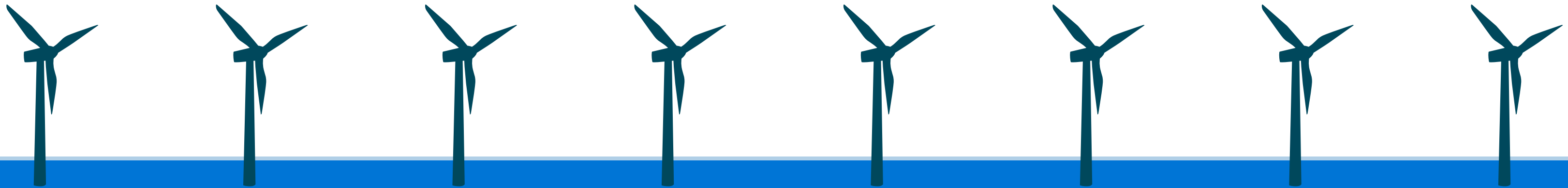
Transmission and submerged cables

Installation of a submerged coastal cable, substations, and regional transmission will be critical work to ensure power generated gets to a regional transmission with related transmission upgrades.

Shipbuilding and maintenance

The transport of cables, massive floating turbines, and other equipment will require a host of new ships being able to support initial construction and ongoing operation and maintenance work in the Southern Oregon coast and along the west coast. Additionally, the emergence of autonomous submerged vehicles provides new and emerging work.

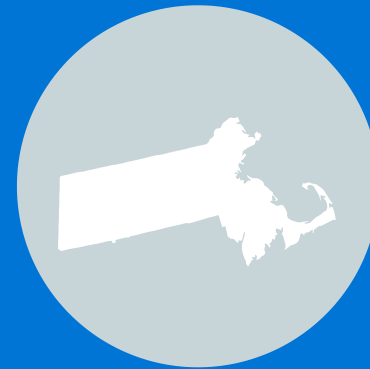
AFFILIATED OFFSHORE WIND JOBS



In addition to construction jobs, offshore wind development will result in new jobs in:

- Security
- Trucking and transportation
- Shipping
- Safety, including medical crews and Coast Guard
- Manufacturing
- Hospitality
- Assorted local jobs due to increased economic activity

OFFSHORE WIND WINS IN OTHER STATES



MASSACHUSETTS PROJECT LABOR AGREEMENT FOR VINEYARD WIND

In July 2021, developer Vineyard Wind signed a PLA with the Southeastern Massachusetts Building Trades that included \$500,000 for pre-apprentice and recruitment programs.



NATIONAL PROJECT LABOR AGREEMENT WITH ØRSTED

In May 2022, the North America's Building Trades Unions signed a PLA with the developer Ørsted that will cover all offshore wind projects undertaken by the company in the United States.



CALIFORNIA PROJECT LABOR AGREEMENT WITH CADEMO

In November 2022, the State Building and Construction Trades Council of California signed a PLA with developer CADEMO for their project to build offshore wind facilities in state waters off Santa Barbara County.



WIND ENERGY AREAS

~2 YEARS

Selection of specific areas for
development off Coos Bay & Brookings

WHAT HAPPENS

- Federal National Environmental Policy Act (NEPA) environmental assessment
- State review of NEPA assessment for consistency with Oregon Coastal Management Program (OCMP)

OPPORTUNITY TO SHAPE

Public comment on draft Wind Energy Areas. This is the selection of smaller areas for potential development, reducing environmental impacts and impacts on other ocean activities.

OPPORTUNITIES FOR ENGAGEMENT – PART 1



FEDERAL LEASE AUCTION

~1-2 YEARS

BOEM auctions an area of ocean
for a potential project

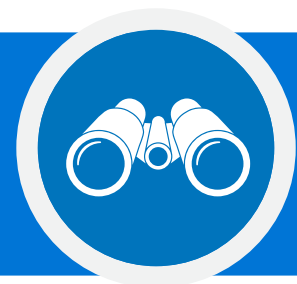
WHAT HAPPENS

- Winners secure lease to begin assessing projects within Wind Energy Areas
- Past auctions have given weighted preference to buyers that have made commitments toward responsible development

OPPORTUNITY TO SHAPE

Public comment on proposed sale notice. Previous auctions have supported high road development by rewarding developers that commit to Community Benefit Agreements, Workforce Training, and using a domestic supply chain.

OPPORTUNITIES FOR ENGAGEMENT – PART 2



SITE ASSESSMENT

UP TO 5 YEARS

Federal multi agency environmental
and technical assessment

WHAT HAPPENS

A site-specific evaluation looking
at the environmental, geological,
and archeological data, as well as
feasibility of development

OPPORTUNITY TO SHAPE

Opportunity to address project-
specific environmental, cultural,
and economic impacts, as well
as transmission and port
infrastructure through federal
and state siting and permitting
processes.

OPPORTUNITIES FOR ENGAGEMENT – PART 3

WHAT HAPPENS

OPPORTUNITY TO SHAPE



CONSTRUCTION & OPERATIONS

~3 YEARS

Comprehensive plan submitted that details all facilities and activities related to the project

- Developer submits Construction and Operations Plan (COP) for federal environmental and technical review
- State review for consistency with Coastal Zone Management Act and OCMP

Opportunity to address project-specific environmental, cultural, and economic impacts, as well as transmission and port infrastructure through federal and state siting and permitting processes.

OPPORTUNITIES FOR ENGAGEMENT – PART 4

MAKING OFFSHORE WIND JOBS GOOD UNION JOBS



Secure a Project Labor Agreement and Labor Harmony Agreement with the selected developer that:

- ✓ Requires union wages and family benefits
- ✓ Prioritizes worker safety and respects all workplace laws
- ✓ Includes apprenticeship utilization requirements
- ✓ Requires local hire prioritization
- ✓ Sets goals for utilizing workforce from underserved communities

NEXT STEPS & ACTIONS TO TAKE

Offshore wind development will be a long process in Oregon, but one with incredible potential for Oregon workers.

Our goal is to keep you updated as this process develops, and ask for you to lend your voice and take action during key points in the process.

By creating a high-road vision for offshore wind development, we can ensure these potential tens of thousands of jobs provide living wages and good benefits, safe and healthy work conditions, and apprenticeship opportunities.



**HOW TO GET
INVOLVED &
LEARN MORE**

**OFFSHOREWORKS
FOROREGON.COM**

**Contact Ranfis Giannettino Villatoro
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