The Port of New Bedford Is ...

READY FOR OFFSHORE WIND

CITY OF NEW BEDFORD
Jonathan F. Mitchell, Mayor
New Bedford is the world’s most famous whaling era seaport, the number one commercial fishing port in America, and the premier location to assemble, construct, deploy, operate and maintain industrial offshore wind.

While our history is rich both on land and at sea, it is the city’s future that excites leaders in business, development, government, and education. Each day my Administration works closely with the private sector to spur economic growth. All of us recognize that new development in a growing economy creates jobs that can enable families to build homes, send their children to college, and otherwise pursue the American Dream.

My administration has spent considerable effort and resources to guide economic development. We have focused on cultivating an export-based economy by leveraging the city’s assets—none more critical than our working waterfront. Today, the Port of New Bedford is home to over 200 maritime businesses, a commercial fleet of 500 fishing vessels, two inter-island ferry services, an active cargo shipping industry, a newly established IoT lab, a cruising industry, bulk and break-bulk cargo facilities, and numerous shipyards and vessel repair facilities.

We have sought to take a regional, metropolitan-based approach to development while emphasizing the centrality of the city and our working waterfront in the region’s identity. We also are elevating the city’s quality of life through school reform, urban beautification, and more effective municipal management.

I believe that all of these efforts help to create the environment needed for private sector investment and transformative development throughout the City, and our recent track record of success is delivering value to our private sector partners, residents, and visitors.

Our talented maritime workforce, development potential, and prime location along Buzzards Bay creates excellent opportunities for business relocation, growth, and development.

I thank you for your interest, and welcome discussing your next offshore wind project.

Please enjoy all that New Bedford has to offer.

Sincerely,

Jon Mitchell
Mayor, City of New Bedford
1. MARINE COMMERCE TERMINAL
   Only U.S. terminal built for offshore wind
   Deepwater draft, protected harbor
   28 acres for assembly, laydown

2. RESEARCH & WORKFORCE TRAINING
   Trades like marine welding, electronics
   Wind energy certificates/degrees
   Research institutions
   Customized training
   IoT Laboratory

3. FULL MARINE SUPPORT SERVICES
   Logistics, operation and maintenance
   Skilled marine labor force
   Foreign trade zone

4. SITES AND INCENTIVES
   Pad-ready, adjacent to terminal
   Below-market financing
   Tax incentives

5. ACCESS TO SUPPLY CHAIN
   Existing OEM manufacturers
   Rail/Highway
   Airport/Seaport
   Convenient access to Europe

6. CLOSE TO WIND AREAS
   15 to 25 miles to BOEM wind zone
   SEE INSET MAP BELOW
With over 350 years of maritime history, it is no surprise that today New Bedford is one of the most important commercial ports on the East Coast. From its whaling days to its current position as the nation’s number one fishing port in terms of value of catch, to its future as a major hub for industrial scale offshore wind and an intermodal shipping center, the Port of New Bedford has been and will always be a working port.

The Port serves as the city’s greatest natural resource and most critical asset to stimulate investment, attract new industry, create jobs and develop a healthy economy. Over 6,200 people are employed by New Bedford’s commercial port. New Bedford is the number one value fishing port in the nation generating direct business revenues of $3.3 billion and a total economic impact of $9.8 billion, representing 2% of the state’s GDP.

Today, the busy Port of New Bedford is home to over 200 maritime businesses, a commercial fleet of 500 fishing vessels, two inter-island ferry services, an active cargo shipping industry, a cruising industry, bulk and break-bulk cargo facilities, and numerous shipyards and vessel repair facilities.

Ferry services are available in the port, including passenger and cargo service to Cuttyhunk Island and passenger service to Martha’s Vineyard. Launch, water taxi, and charter boat services also operate in the port.

“Deepwater Wind looks forward to working closely with Mayor Mitchell and the port community, as together we build a new industry in the region. New Bedford is perfectly positioned to be a key player in the emerging offshore wind industry.”

MATT MORRISSEY, DEEPWATER WIND - VICE PRESIDENT, MASSACHUSETTS
Like many modern working ports, New Bedford/Fairhaven Harbor balances maritime interests and local economic needs with environmental concerns. Several economic and environmental designations, such as the Foreign Trade Zone and No Discharge Area, currently apply to the port.

The Port of New Bedford is currently undertaking a more than $200 million commercial makeover: deepening channels and berths as well as repairing and enlarging maritime terminals and wharves to accommodate the needs of the growing shipping and emerging offshore wind industries. With excellent road, vessel, and rail connections to New England, the nation, and the world, New Bedford is poised to become a leading intermodal port into the 21st century and beyond.

A full directory for each service and the private/public sector providers is available at portofnewbedford.org

- Direct Port Services
- Supporting Services
- Boat Building
- Civil/Maritime Engineers
- Bulk Carriers
- Customs Brokers
- Commercial Divers
- Financial Institutions
- Crane Services
- Hotel Accommodations
- Elevator Repair
- Importers
- Engine/Diesel Repairs
- Marine Insurance

- Environmental Cleanup/Products
- Marine Surveyors
- Ferries
- Marine Safety
- Freight Forward
- Transportation
- Fuel and Lighting
- Vessel Agency
- Harbor Master
- U.S. Federal Agencies
- Launch/Water Taxi
- Longshoremen
- Marine Construction
- Marine Electric Service

- Marine Electronic Equipment
- Pilots
- Railway Services
- Salvage
- Ship Repair and Shipyards
- Shipping Terminals
- Ship Chandlers
- Stevedoring Contractors
- Towing/Tugs/Barges
- Transient Dockage
- Warehouses
- Welding Services/Supplies
Access to Supply Chain
The US supply chain for offshore wind builds upon a national supply chain that addresses the needs and requirements of the robust and expanding land-based wind energy industry. The Port of New Bedford and Massachusetts Clean Energy Center have identified and pre-qualified an existing US supply chain with the basic quality, safety, bonding, and documentation required by prime contractors in offshore wind. These include: pier-side services, at-sea services, equipment suppliers, materials, consumables, and supplies.

The US Department of Energy maintains a national wind supply chain database and GIS Wind Supply Chain Map that includes offshore wind supply chain needs. Massachusetts companies that are recognized as capable of supplying the wind industry are represented on the current database and GIS Offshore Wind Supply Chain Map.

The New Bedford Wind Energy Center and Bristol Community College have proposed a research effort to update the GLWN study; generate a customized analysis of the three leaseholder’s projected port, logistics and supply chain requirements and produce a comprehensive assessment of the alignment of Massachusetts ports and advanced manufacturing ecosystem specifically (now and in the future) with those identified needs.

New Bedford is taking a regional approach to supply chain development. The Port of New Bedford is home to over 200 maritime businesses, including an active cargo shipping industry, a cruising industry, bulk and break-bulk cargo facilities, numerous shipyards and vessel repair facilities, as well as significant fishing and ferrying operations.

New Bedford offers a readily accessible uncongested exit of the marine highway. New Bedford is a deep-water intermodal port with easy access to the maritime corridor from the Atlantic coast and European ports, located at a key juncture of Short Sea and International Shipping Routes. The port is approximately 25 nautical miles from the MAWEA, and has excellent direct access to interstate highways (I-95, I-93, Route 128, 140 and 195), as well as rail, and air connections (New Bedford Regional Airport) to major US and European supply chain hubs.

Designated Port Area
The Massachusetts Office of Coastal Zone Management has classified portions of the waterfront in New Bedford and Fairhaven as a Designated Port Area (DPA) under a program to preserve and promote maritime industry. The DPA classification encourages the creation or expansion of water-dependent industrial facilities in developed harbor areas. DPAs are subject to specific provisions, including land use restrictions, under Massachusetts General Law Chapter 91, which is administered by the state’s Department of Environmental Protection. DPAs also are officially identified as priority areas for federal and state funding, including funds available under the Seaport Bond.

Hurricane Barrier
The U.S. Army Corps of Engineers (USACE) is a federal agency responsible for the operation and maintenance of the New Bedford Hurricane Barrier, including the opening and closing of the two hurricane doors that guard the main shipping channel leading into the Harbor. USACE officials decide when the gates will be closed (i.e., when hurricanes threaten or for other severe weather, including coastal storms or strong high tides) and reopened. (See the Hurricane Plan for Recreational Boaters). The Hurricane Barrier stretches across the water from the south end of New Bedford to the Town of Fairhaven. The barrier’s 150-foot opening closes during hurricane conditions and coastal storms make the Harbor one of the safest hubs on the eastern seaboard.

IoT Impact LABS
Impact LABS is a field-pilot-based IoT accelerator launched by INEX Advisors in downtown New Bedford, only a few short blocks from the working waterfront. Their goal is to enhance and accelerate learning about, investing in and value creation from IoT with small and mid-sized businesses (SMBs) operating in ‘grand challenge’ markets. LABS brings together world-class IoT startups, Tier 1 technology and industrial suppliers and legal and policy experts to define and test intelligent, intentional approaches to instrumenting the physical world. Thier pilot sites are the most innovative public and private SMBs throughout New England operating in Smart Cities, Food/ Agriculture, Water/ Maritime, Energy and Transportation Markets.
The New Bedford Marine Commerce Terminal is a multi-purpose facility designed to support the construction, assembly, and deployment of offshore wind projects, as well as handle bulk, break-bulk, container shipping and large specialty marine cargo. The first of its kind in North America, the terminal has been engineered to sustain mobile crane and storage loads that rival the highest load-bearing ports in the nation.

By land, the terminal may be accessed via Interstate 1-95 or I-495 (via connections through New Bedford Route 18 and MA Route 140 and/or Route I-195). The terminal is also located in close proximity to the federal offshore wind energy areas along the East Coast.

The New Bedford Marine Commerce Terminal’s high capacity quayside is supported by a complex system of cofferdams, a pile-supported marginal wharf and geotechnically-competent, dense aggregate that allows for heavy uniform and concentrated loads.

Whereas many ports have a small quayside area specifically designated as the single hard point, over 21 acres of the New Bedford Marine Commerce Terminal’s main terminal site has the ability to sustain uniform loads of 4,100 pounds per square foot (20 metric tons per square meter) and concentrated loads of up to 20,485 pounds per square foot (100 metric tons per square meter). This loading capacity allows for cranes of all sizes to be mobile throughout the site, increasing the efficiency of the work and providing logistical flexibility. The terminal is capable of supporting a 1,350 metric ton crane lifting a 500 metric ton load at 30 meters along the entire 1,000-foot (305-meter) new bulkhead and throughout the more than 21-acre main facility.

Terminal Features

- 26-acre facility with a 1,200-foot quayside and a new 300-foot wide navigational channel dredged to -30 feet MLLW
- Free of overhead restrictions
- Work and security level lighting allow for around-the-clock activities within the Designated Port Area
- Ship-to-shore power outlets along the bulkhead
- Expandable electrical system, including a 3,000 amp, 480/277V, 3 phase, 4 wire system
- Fire protection, potable water and waste water disposal capabilities
- State-of-the-art vega sector lights installed along the hurricane barrier to enhance vessel navigation

To use or lease the terminal, please contact newbedforterminal@masscec.com
For a decade, visionary, data-driven, and community based planning has been a cornerstone of New Bedford’s economic development agenda. We have seen the proof, time and time again, that good planning is the first step towards a successful outcome. We continue to push for and lead progressive policy development and land-use strategies that reflect shared values, strengthen our connections to the water, and outline a clear vision for the future of emerging growth sectors such as offshore wind.

The Waterfront Framework Plan completed in 2016 provides a framework for the long-term development of the north terminal, the south terminal, and the central waterfront; with a focus on how industrial scale offshore wind uses complement the existing port activities and development trends. Indeed, the Port of New Bedford is one of the few locations in the Commonwealth where such industrial uses are not merely tolerated, but welcomed as a cornerstone of the cultural identity of the community.

Of these areas in the port, the South Terminal and the Eversource/Sprague Energy Site, offer unique opportunities for offshore wind related development.

While the waterfront planning report describes the development opportunities for each of these key sites in detail, a brief overview of each site’s potential is outlined below:

**South Terminal**
The Port of New Bedford hosts the nation’s first purpose-built offshore wind terminal (New Bedford Marine Commerce Terminal) and we expect the offshore wind industry to utilize the facility and the area around it in the short-to-medium term for deployment, operations, and maintenance needs. As the offshore wind industry develops over the next 10 years, sites adjacent to the terminal will likely offer competitive opportunity for supporting uses. Exploring the need for an offshore wind training and research facility is also being considered as part of this area’s long-term growth.

**Eversource/Sprague Energy Site**
The Eversource/Sprague site is large enough to accommodate multiple uses. The northern portion of the site will be explored for uses related to downtown development trends. The larger southern portion of the site along the bulkhead should continue to be developed for commercial marine-industrial uses and could include; ship building, offshore wind operations/maintenance support node, and supply chain distribution and manufacturing. The planning process was managed by the Harbor Development Commission (HDC) in collaboration with the New Bedford Redevelopment Authority and with the assistance of the Office of City Planning.
Specific project outputs of this planning effort included:

- Site analysis and existing condition study
- Civic engagement and visioning
- Master planning and design principals development for specific sub-districts
- Action plan development and zoning recommendations

“We are excited to propel forward the city’s fishing legacy and cultural tourism while planning for the future jobs in offshore wind. We want to build on this proud history of competitive natural assets and an industrious workforce,”

MATT ERSKINE, DEPUTY ASSISTANT SECRETARY OF COMMERCE, EDA
In New Bedford, we know how to handle onshore operations, weld, perform as electricians, operate heavy equipment, and captain vessels. Our businesses understand the intricacies of a working waterfront and are well positioned to service industrial offshore wind. To meet the specific training and safety needs of the offshore wind industry, we have a network of strong community organizations, community colleges, vocational schools, and workforce training platforms already in place and ready to prepare the workforce for new opportunities.

Research
Our lead partner in this effort is Bristol Community College (BCC). BCC is conducting a customized research study of the workforce requirements and economic development impacts associated with the development of 1,600 megawatts of electricity from offshore wind turbines proposed for construction in the MAWEA and RIWA. This customized workforce analysis integrates lessons learned from the respective European wind development experiences.

The research also includes a comprehensive assessment of existing safety regulations (EU/ISO/Industry) currently impacting European operations and the alignment of those safety regulations with existing and projected U.S. safety requirements. The research will generate a detailed assessment of the jurisdictional issues pertaining to federal oversight and enforcement of offshore wind safety requirements (OSHA/BOEM/DOE) of offshore wind deployment in the United States. The research will also utilize Jobs and Economic Development Impact (JEDI) model to estimate jobs and other gross economic impacts in each region.

This research study focuses specifically on the three BOEM leaseholders targeting and defining their respective workforce requirements. BCC is also determining the most effective pathways to aligning training with Global Wind Organization and American Wind Energy Association standards. Partners in this effort include the Humber Marine Alliance, Catapult Offshore Renewable Energy, Renewable UK and the Danish Wind Energy Association.

Training
Since 2013, BCC has offered a core wind technician curriculum of 32 credits. This certificate program provides a wide range of courses and instruction in wind turbine technology, turbine placement and construction, turbine operations and maintenance, monitoring and communications technology, tower safety, mechanical systems, electrical theory, power generation and distribution, hydraulics, and digital electronics.

BCC provides classroom based instruction, linked with practical on-site training, to provide a wide range of industry accreditation that are recognized and required by the majority of the major turbine manufacturers and maritime companies. Specialized training areas include maritime survival, safety and security. Operation and maintenance courses including time requirements, tools and materials, transportation, and safety topics.

Future programs focused on Operations and Maintenance (O&M) training will be developed with industry partners and will introduce students to systems for tracking component failure rates, reliability analysis metrics such as meantime between failures, meantime to repair, availability impacts and spare parts consumption. Additional O&M programs are also envisioned to include training for inspection, monitoring, tracking of durability or degradation of materials and components, onsite repair of critical components assessment of candidate components, repair capabilities, and best practices for repair techniques.

“New Bedford is working harder than ever to secure this opportunity for sustainable job creation and investment. Establishing the Wind Energy Center within the NBEDC is a step in the right direction toward clean energy production and job creation in the United States.”

CONGRESSMAN WILLIAM R. KEATING
The team approach that New Bedford takes to drive its economic development agenda—specifically those activities associated with the emerging American Offshore Wind Industry—is what allows this port city to meet the needs of the private sector at nearly every scale of demand. The proactive alignment of resources by the City’s economic development, harbor development, and workforce readiness partner agencies make the Port of New Bedford the premier maritime location for industrial scale offshore wind.

**Harbor Development Commission**

The Harbor Development Commission (HDC) has jurisdiction over all of the coastal waters in New Bedford, including the entire coastline of the peninsula, the New Bedford Harbor, and north along the Acushnet River to the city’s boundaries. The HDC represents a wide array of harbor interests and manages and operates City-owned property on the waterfront with the goal of maintaining a diverse economic base for the city by retaining and encouraging maritime and water-related businesses.

The HDC’s primary roles are to:

- Provide a high level of customer service in a cost-effective manner through adequate infrastructure and the efficient operation and maintenance of its existing facilities and services; and
- Promote the Port as “business friendly” through the support and retention of existing maritime businesses and activities, and the facilitation of new business opportunities along the waterfront.

Chaired by the Mayor, the Commission consists of seven members as appointed by the Mayor and approved by City Council. The HDC has the authorities of the harbormaster and the responsibility to manage commercial and recreational vessel activities over all the waters within the New Bedford city limits. The crucial day-to-day operations and decision making is the responsibility of the HDC staff headed by an Executive Director.

The HDC represents a wide array of harbor interests and one of its primary roles is to support economic development along the waterfront. The HDC has planning, developing, and financing authority for city properties within the Port.

**New Bedford Economic Development Council**

The New Bedford Economic Development Council (NBEDC) is a nonprofit organization comprised of 250 successful leaders in business, education and government led by a nine-member Board of Directors. In conjunction with the Mayor’s Office, the NBEDC sets the agenda for the city’s key strategic economic development areas. The Executive Director and NBEDC team are responsible for the coordination and implementation of the organization’s programs and initiatives.

**New Bedford Wind Energy Center**

The New Bedford Wind Energy Center (NBWEC) is the collaborative platform at the NBEDC that builds local capacity around the offshore wind industry in New Bedford. The NBWEC was established within the NBEDC to ensure that the activities to develop the offshore wind industry are fully integrated into the city’s comprehensive economic agenda.

The NBWEC mission is to fully capture all of the opportunities possible for local job creation, investments and positive impact from the development of the offshore wind industry in Massachusetts. The NBWEC provides the management capacity to work with over 50 partners across the region’s public, private and non-profit sectors; areas that were traditionally seen as separate functions are now interconnected through the lenses of offshore wind.

The NBEDC has a Memorandum of Understanding with Bristol Community College (BCC) to manage the strategic and operational functions of NBWEC within a sustainable funding model. This model aligns with similar global models both in the context of organizational structure and funding. At BCC, the NBWEC is organized within the Division of Workforce Development and receives overall supervision from Paul Vigeant, the Vice President for Workforce Development who also serves as the Managing Director of the NBWEC.
We see port related development as a primary means to further the ongoing transformation of the city. Development in New Bedford provides dynamic and tangible signs of the progress and growth of New Bedford and the region.

Creative and well planned projects grow the job base in the trades, create permanent jobs, expand the commercial tax base and underscore the increasing vibrancy which makes New Bedford more and more attractive to additional and greater investment vehicles and projects.

The NBEDC can provide a high level of technical assistance for real estate port development projects in such areas as: site selection, pre-planning, financing, permitting and incentive agreements. The NBEDC team members are often vital in negotiations with state agencies, lending institutions and even amongst separate private interests. This assistance is based on our extensive municipal, state and federal experience in facilitating successful projects for the growth of New Bedford.

Foreign Trade Zone
The City of New Bedford’s Foreign Trade Zone Corporation, working with the NBEDC, offers a unique “tax abatement” opportunity that is recommended to any company that currently imports or plans to import, directly or indirectly, through purchases from importers. New Bedford is a designated Foreign Trade Zone grantee. This means it can sponsor applicable companies and developers to realize unique financial benefits specifically offered to Foreign Trade Zones. These benefits include, but are not limited to:

Duty Deferral:
A firm can move its current inventory of domestic or duty-paid merchandise into a Zone and duty is paid on imported material only after it has remained in the Zone during its normal inventory cycle.

Duty Elimination:
Tariffs are never paid on goods that are exported from the FTZ. Unlike a drawback program which refunds previously paid tariffs, Zones allow a company to avoid payment altogether. Goods may be destroyed in the FTZ, and all tariffs do not have to be paid, and waste or scraps are never assessed any duty.

Duty Reduction (a.k.a. Inverted Tariffs):
Unique to manufacturing operations, imported components that undergo a “substantial transformation” into a final product with a different Customs classification for duty assessment, may benefit from inverted tariffs. The inverted tariff occurs on a final product that would have had a lower duty rate if it had been imported as a finished product, rather than the duty rate that is assessed on all its imported components separately.

Tax Increment Financing Program
The Tax Increment Financing Program is designed to encourage new development and job creation in New Bedford. This program is administered as the local component of the state’s Economic Development Incentive Program, and is a partnership between the state, the municipality, and an expanding company. In exchange for job creation and investment commitments, a company becomes eligible for the best possible state and local tax benefits, exclusive to Gateway Municipalities such as New Bedford.

Permitting Task Force
The Permitting Task Force is comprised of a representative from each city department, board and/or commission that is regularly involved in New Bedford’s permitting approval process. Task Force pre-application meetings encourage proactive planning with applicants and help to ensure that projects move efficiently through the city’s permitting process, usually within 60 days.

Workforce Training, Placement, and Grants
The New Bedford Career Center is an efficient, innovative and responsive way for businesses or individuals to get employment, education, and job training services. Connecting with job seekers, training opportunities and community partners has never been easier. The Workforce Training Fund is a state fund financed entirely by Massachusetts employers. Its purpose is to provide resources to Massachusetts businesses and workers to train current and newly hired employees.
This vision of New Bedford is one that began nearly 250 years ago. In the mid-1700s, when Joseph Rotch purchased 13 acres of land along our deep harbor, establishing the whale fishery that transformed the small village into a thriving port.

A century later, the boon of the textile industry swelled our population, spurred the development of vast new ethnic neighborhoods, and expanded the city’s growth to the north and south. Within the last century, the emergence of commercial fishing and processing secured our national prominence as a center of global commerce, wholly connected to the sea.

Today, our commercial fishing fleet, recreational, and research vessels have replaced the hulking whaling ships of the past. Soon the nation’s first purpose built terminal for offshore wind deployment will be launching America’s first offshore wind projects.

Our historic mill buildings, that once contained thousands of spinning looms, are being preserved and transformed for new uses. While whaling and textiles no longer fuel an economy that drives the success and growth patterns of the city, our identity as a vibrant and ethnically diverse seaport community holds fast.
**By the Numbers**

**The City**
- 20 square miles with 3 miles of coastline
- Growing population of 94,958 (2015 census)
- 38% Portuguese ancestry
- $38,364 median household income
- 44,504 jobs and 3,272 businesses
- More than 70 parks, playgrounds, and recreational areas

**Activity**
- $3,300,000,000 of direct business revenue is generated from the Port of New Bedford
- The Port’s $9.8 billion of economic impact represents 2% of Massachusetts’ GDP
- 13 cultural festivals throughout the year
- 38% increase in attendance at cultural attractions since 1999
- 150 artists working throughout the city that draw collectors and buyers from Boston, Providence and Cape Cod
- The largest selection of antiques and collectibles in the northeast with over 200,000 square feet of showroom space
- 75% of residents have a commute less than 30 minutes
- Crime has been reduced by 32%

**Employment**
- The Port support 6,225 direct jobs with annual wages of $320 million
- More than 5,400 jobs have been created in New Bedford since 2010
- 6.6% August 2016 (EOLWD)
- 14% manufacturing as percentage of total employment
- 129% increase in marine science employment since 2000 (region)
- 59% increase in culture and tourism related employment since 2000 (region)

Surrounded by the towns such as Dartmouth, Marion, Fairhaven, Mattapoisett, and Rochester, New Bedford draws on a population of 193,000 within a 15 minute drive with annual spending power of $3.3 billion.
“New Bedford is the premier location to assemble, construct, deploy, operate and maintain industrial offshore wind.”

Jon Mitchell
Mayor, City of New Bedford