



Offshore Wind in New Bedford

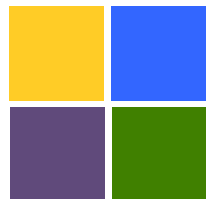
New Bedford Wind Energy Center

Massachusetts Wind Working Group

May 28, 2014



Jonathan F. Mitchell, Mayor





Boston

Providence

New Bedford

Martha's Vineyard

Nantucket

New Bedford is...



...Founded in 1787

...Rich culture, maritime, and textile history

...The #1 value commercial fishing port in America

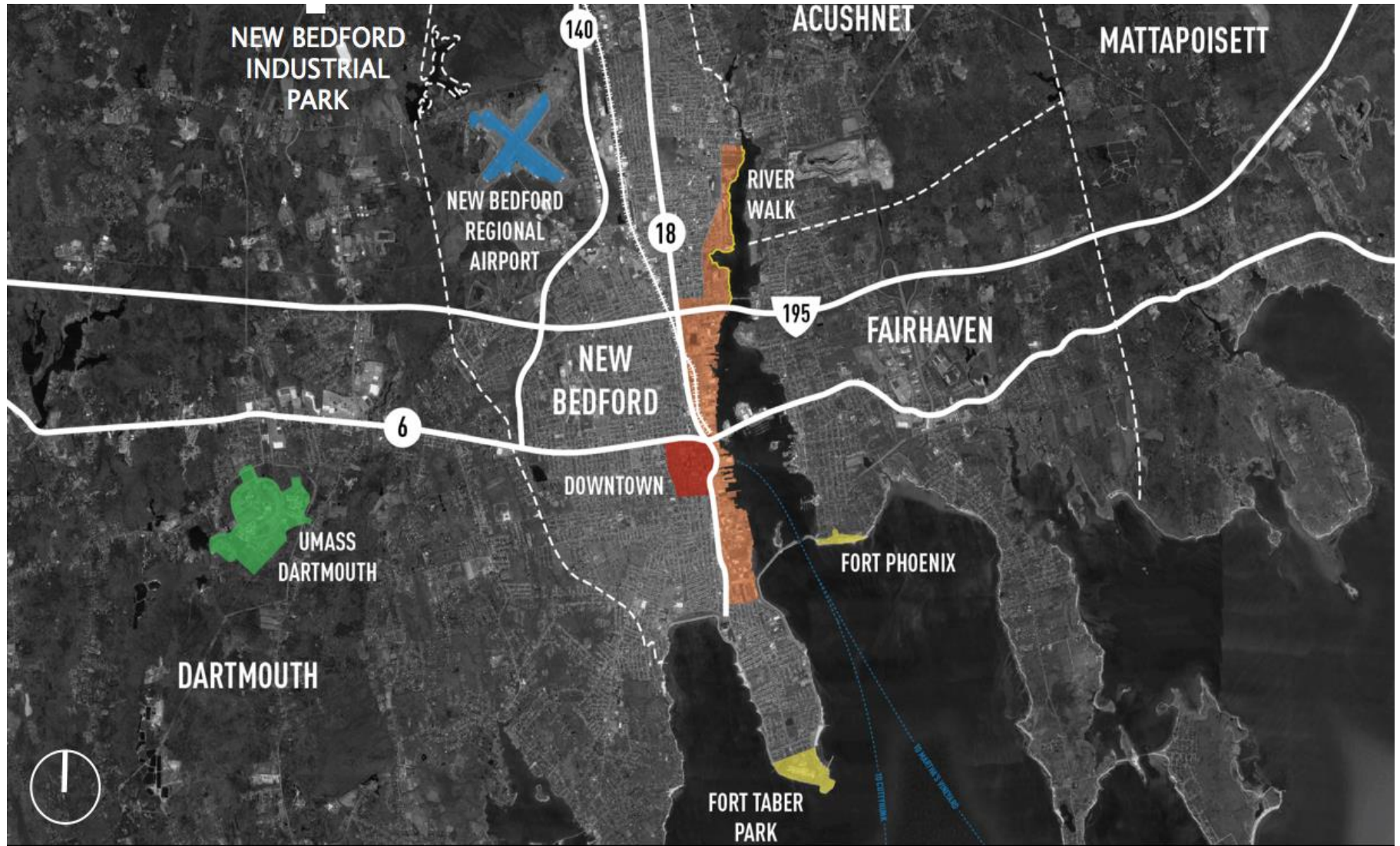
...The #1 new growth Gateway City in the Commonwealth

...a Distinctive Destination—one of only twelve named by the National Trust for Historic Preservation

...America's 7th most artistic city

...one of Americas 50 top sailing destinations—Yachting Magazine

New Bedford Infrastructure





Moving Ahead

\$363M in Private Investment

\$94M in Public Investment

858 Jobs Retained

2269 Jobs Created

1984 Construction Jobs

\$2.3M Annual Tax Revenue Increase for New Growth

55 New or Expanded Businesses in the Downtown

**Construction of the International Market Place, River Walk,
and Custom House Square**



The Challenges

Highest Unemployment Rate in MA

High Dropout Rates Low Education Levels

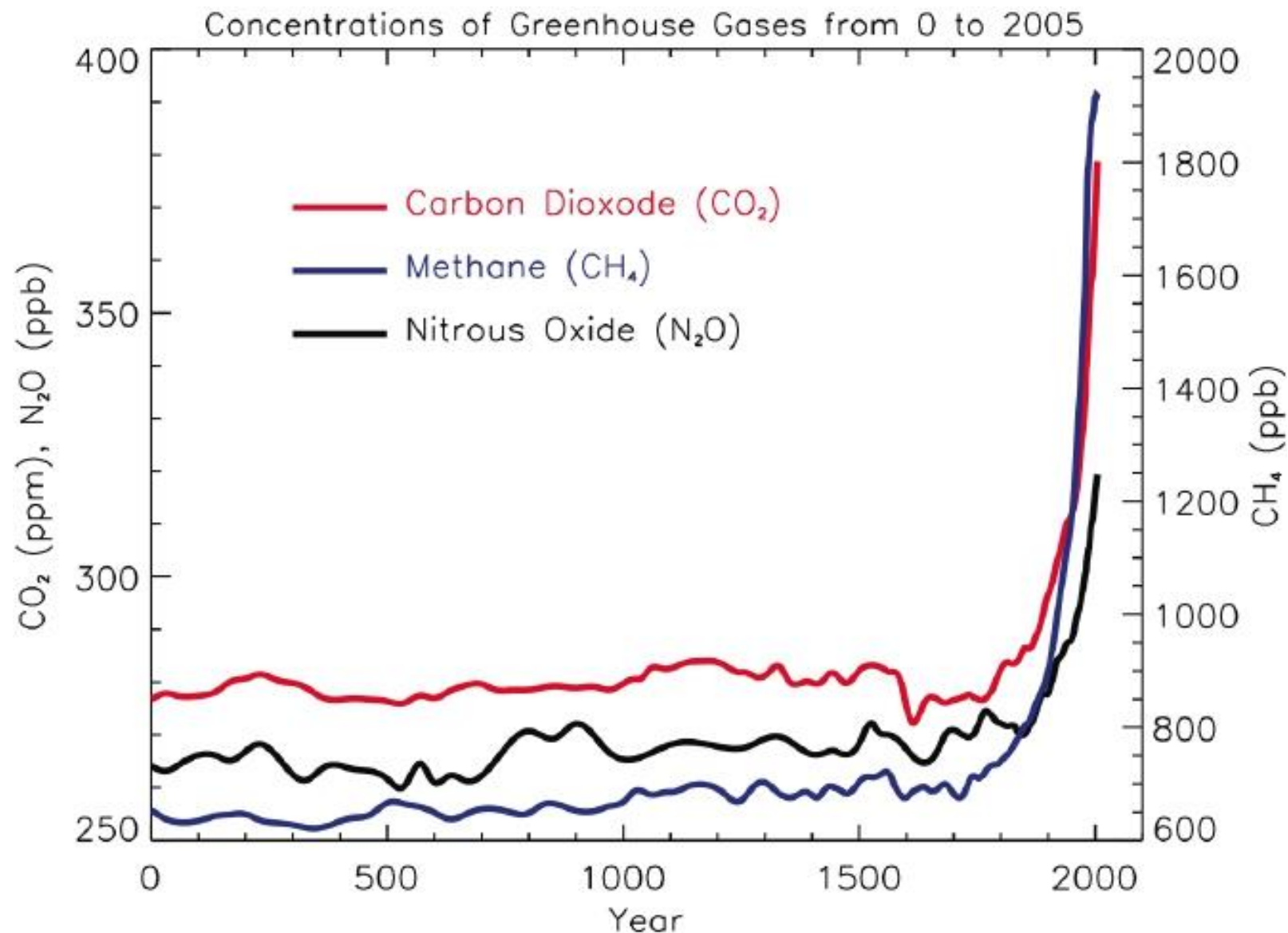
Lose of Traditional Manufacturing

Fishing Regulations

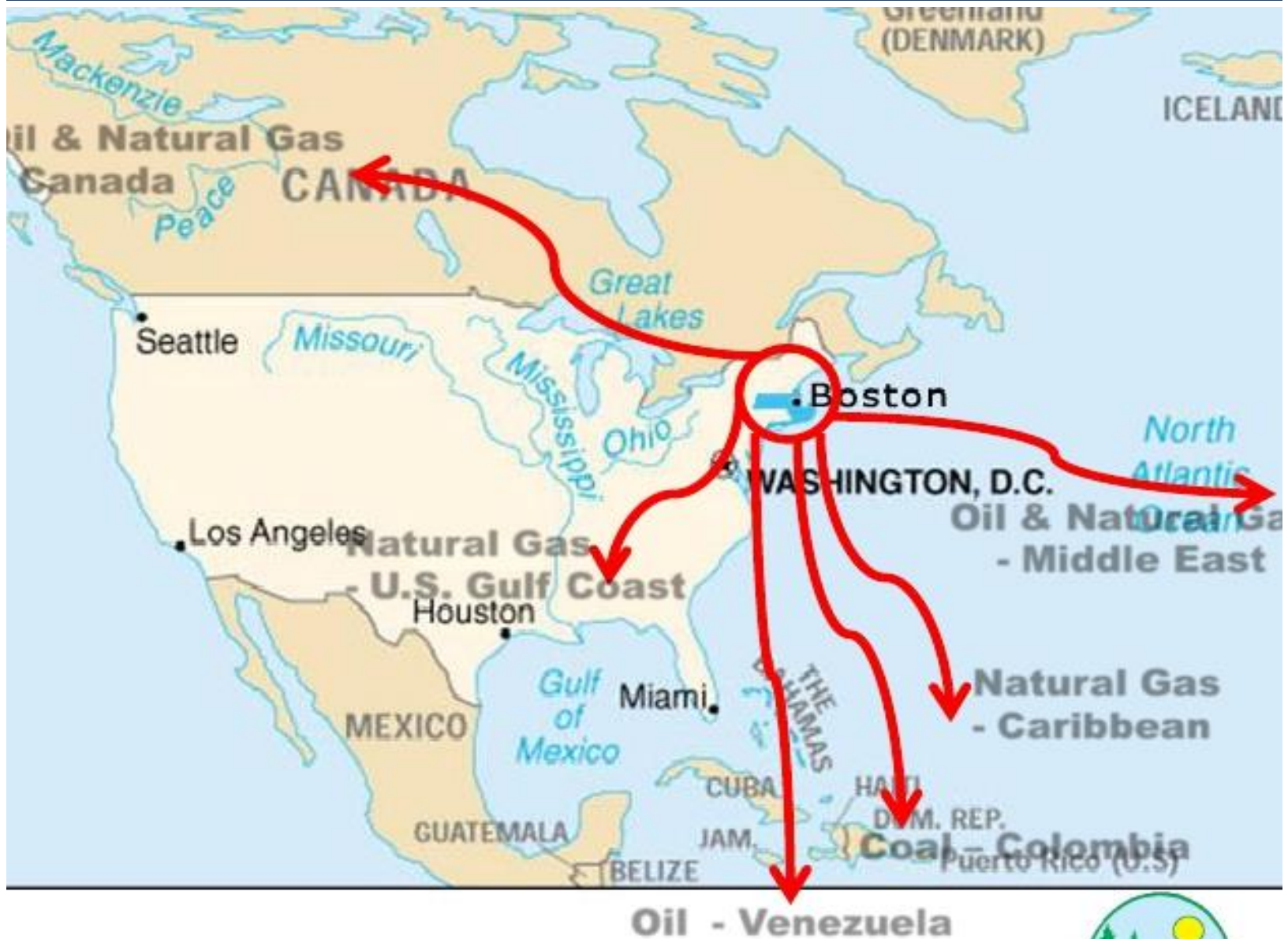
Aging Infrastructure and Housing Stock



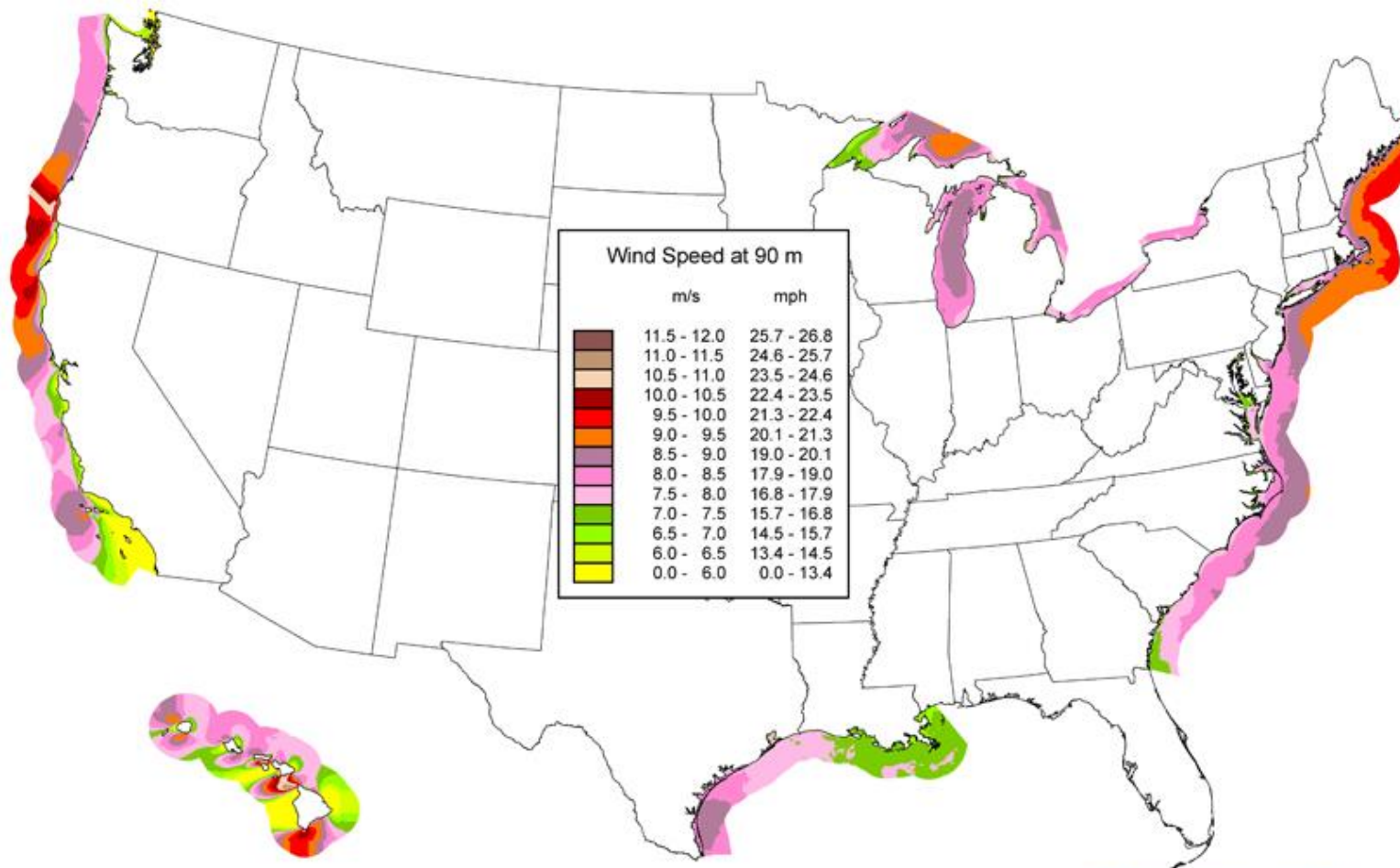
Environmental Impact



Energy Pipeline



The Natural Resource



Comparative Markets



Cuxhaven



- Population of 50,000
- 6.7 % unemployment in 2012
- Two offshore terminals in operation
- \$260M in public investment: 2006-12
- \$240M in private investment

Bremerhaven



- Population of 114,000
- 24% unemployed in 2002—10% today
- Germany's largest fishing port
- \$328 M invested—50% of total OSW
- 2,000 new jobs: 2001-2013

Comparative Markets



Cuxhaven



- Population of 50,000
- 6.7 % employment in 2012
- \$260M in public investment: 2006-12
- \$240M in private investment
- 2,100 new jobs: 2001-2013

Bremerhaven



- Population of 114,000
- 24% unemployed in 2002—10% today
- Germany's largest fishing port
- \$328 M invested—50% of total OSW
- 2,000 new jobs: 2001-2013

NB Marine Commerce Terminal

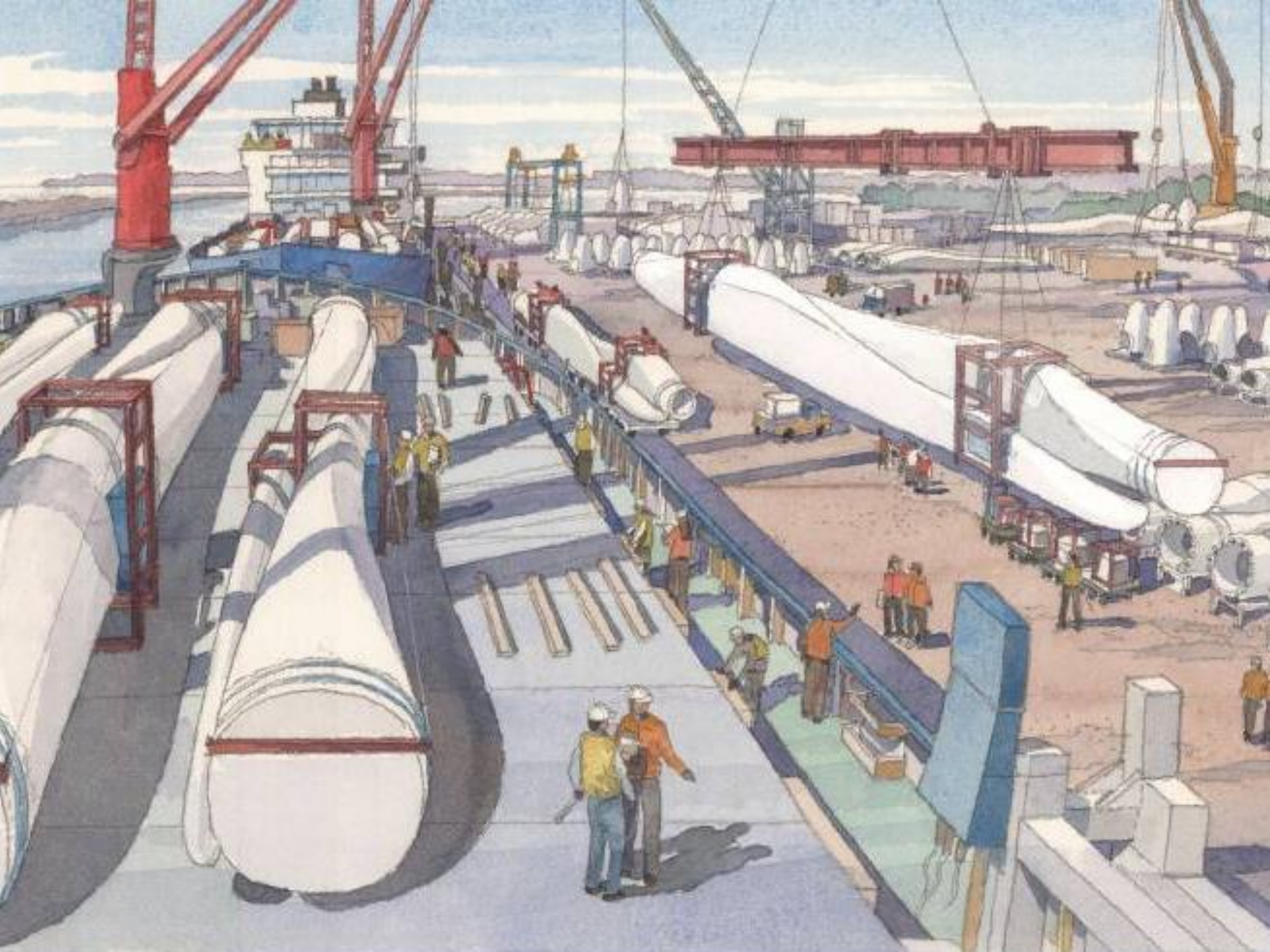




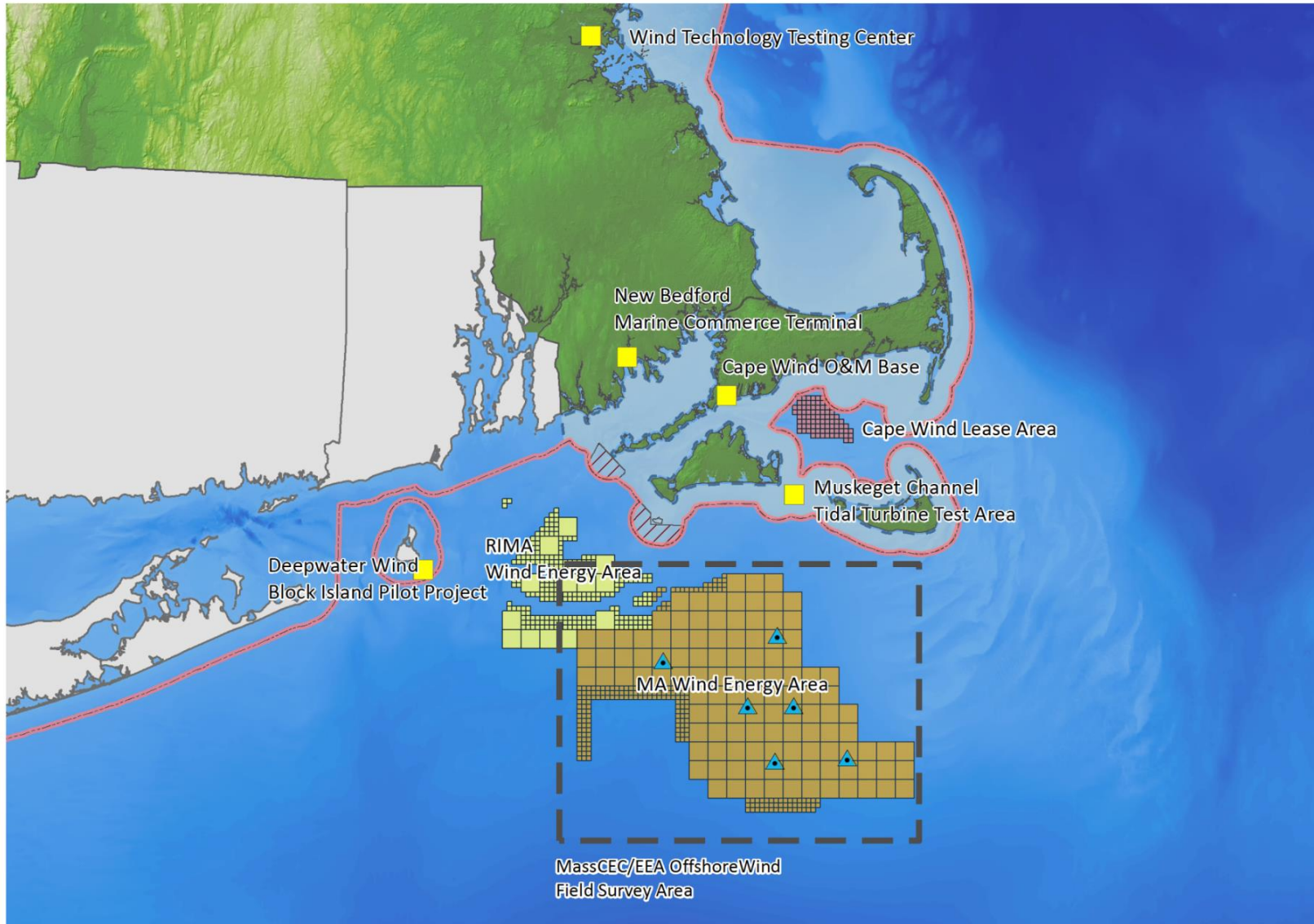
- ## Staging Design Elements

- # Bulkhead

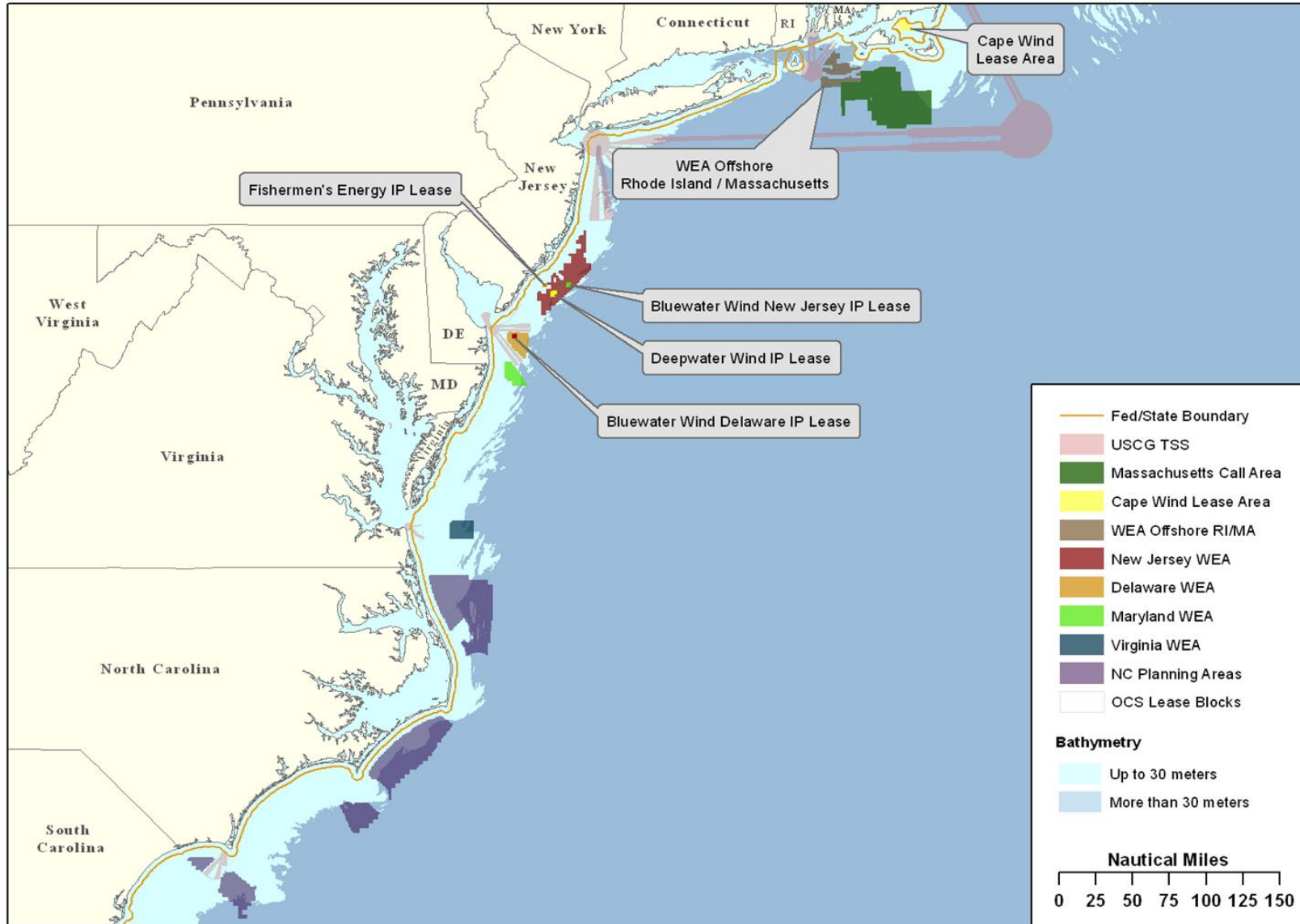
- Expanded berthing capability of deep draft vessels (up to 600')
- 1,200 linear feet of bulkhead construction (a 1,000' expansion)
- Dredge material used for fill (9.4 acres)



Massachusetts Wind Energy Area



Epicenter of the East Coast



Market Data Pointing to Confidence



Federal Policy

- Obama Administration is “all-in”
- EPA permitting
- BOEM permitting
- DOE loan guarantee
- Investment Tax Credit

State Policy

- 2008 Green Communities Act
- Port and Infrastructure Study
- PPA negotiations
- Permitting
- Public investment

Local Policy

- Ground work with State partners
- Mayor’s Advisory Committee
- Trade mission
- Supply Chain and Land use studies
- Bus. Dev. & Workforce Group

Cape Wind & First-Phases

- All federal & state permits in place
- Dept. of Interior commercial lease
- Power purchase agreements in place
- 18 court victories
- Financing nearly completed

Offshore Wind and the Big Picture



10 Year Plan for Sustainable Economic Development*

Exist. & Small Business

Emerging Job Sectors

Communications

Planning & Development

Workforce Investment

Catalytic Projects

Public Safety & Educational Attainment of Community

Wharf Scene, New Bedford Mass.



Wharf Scene, New Bedford Mass.



sail making

cargo handling

cordage
manufacture

shipbuilding

blacksmiths

iron mongering

cooperage

pump and block making



Wharf Scene, New Bedford Mass.

outfitting
infitting
provisioning
flour milling

oil refining
spermaceti candle manufacture

brokerages
recruiting agents
boardinghouses
hotels
theaters
bakeries
tailors
commission merchants
transport

sail making

cargo handling

cordage
manufacture

shipbuilding

blacksmiths

iron mongering

cooperage

pump and block making





engineers

onshore handling

stevedores

captains/deckhands

welders

electricians

heavy equipment operators

offshore logistics

Manufacturing:

Towers

Foundations

Blades

Nacelles

Operations & Maintenance

Provisions

Tug operators

Escort ferry

Repair mechanics

Fueling

Hotel

Restaurants

Retail

engineers

onshore handling

captains/deckhands

welders

electricians

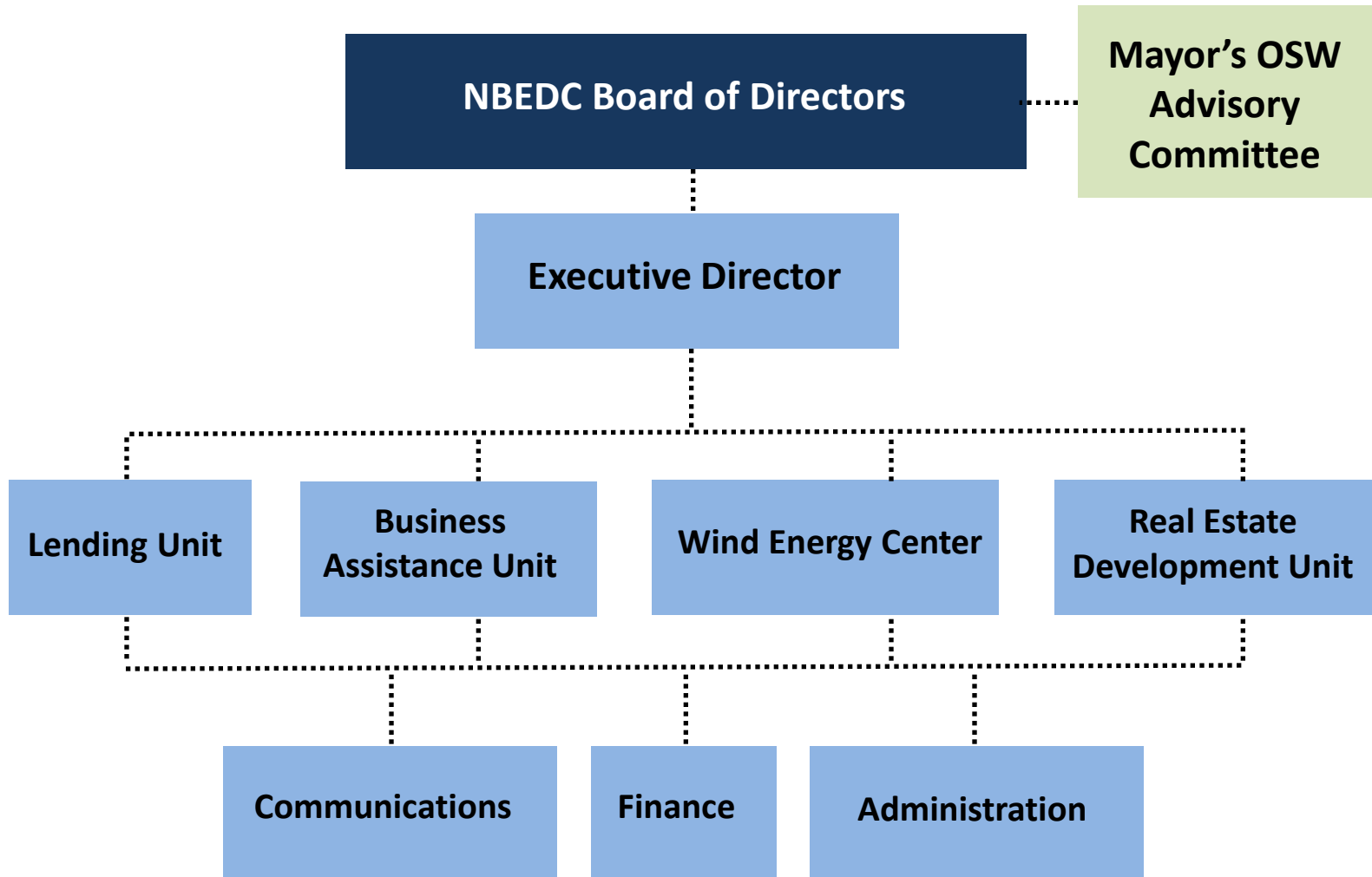
stevedores

heavy equipment operators

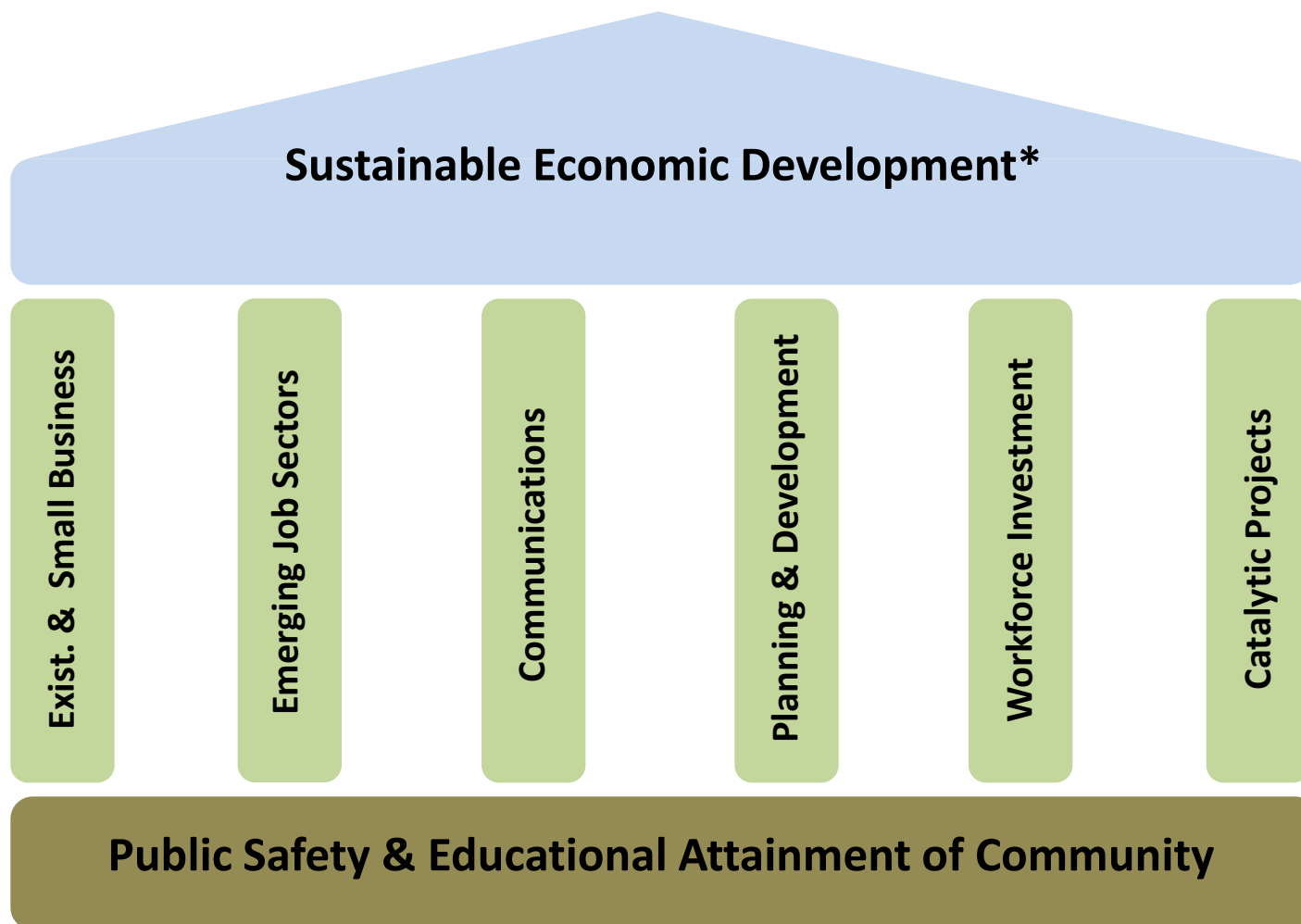
offshore logistics



NBEDC and the Wind Energy Center



Offshore Wind and the Big Picture



Offshore Wind and the Big Picture



WEC Areas of Activity



Policy and Advocacy

Business Development

Workforce Development

Land-Use Planning

Outreach and Educational Programs

