

A photograph of an offshore wind farm at sunrise. The sun is a bright, glowing orb in the upper right, casting a long, shimmering reflection across the blue ocean. Several wind turbines are visible, their silhouettes and three-bladed rotors standing against the horizon. The water's surface is textured with small waves, catching the light from the sun.

DEEPWATERWIND

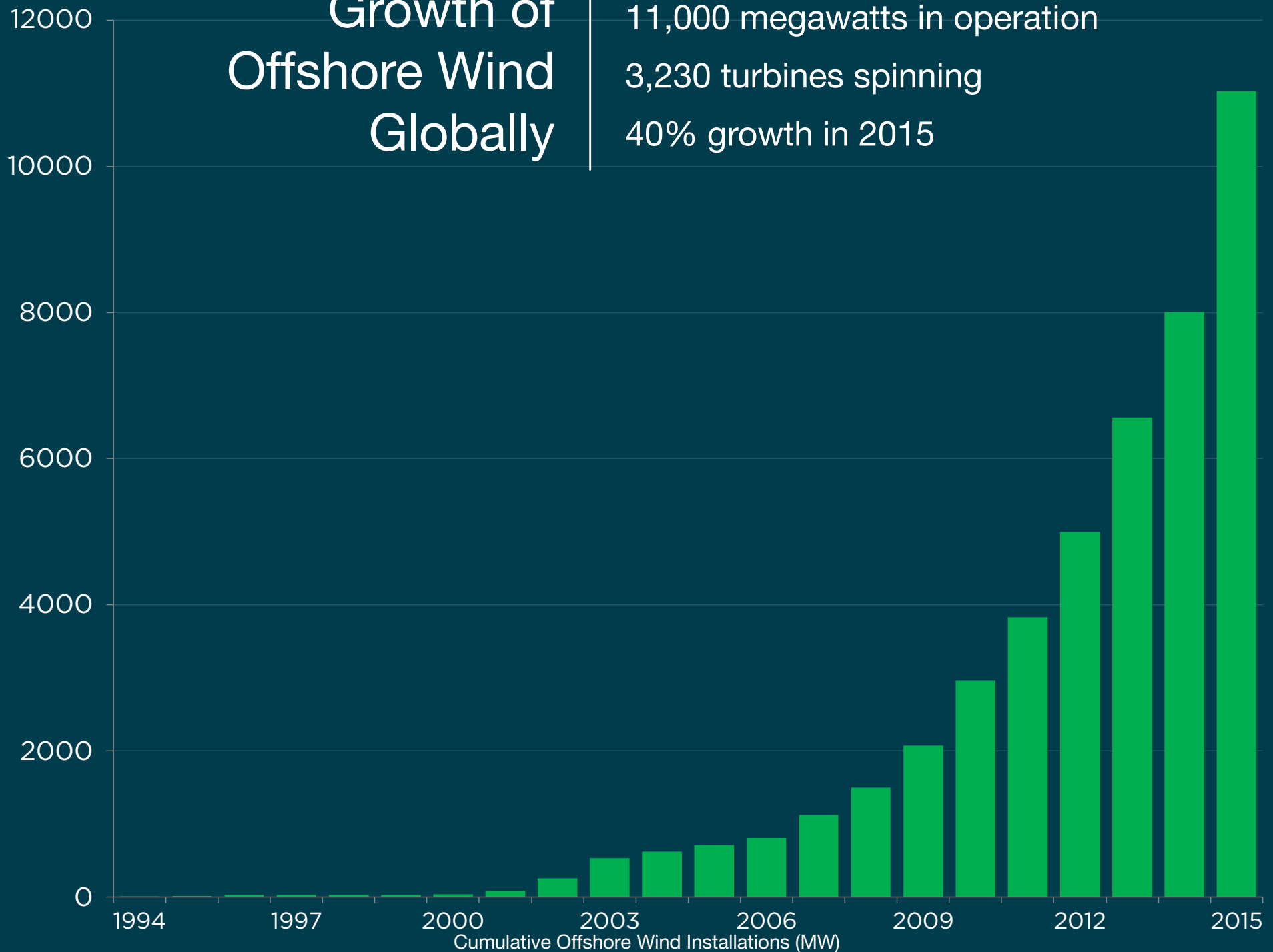
Clean energy is just over the horizon.

Growth of Offshore Wind Globally

11,000 megawatts in operation

3,230 turbines spinning

40% growth in 2015

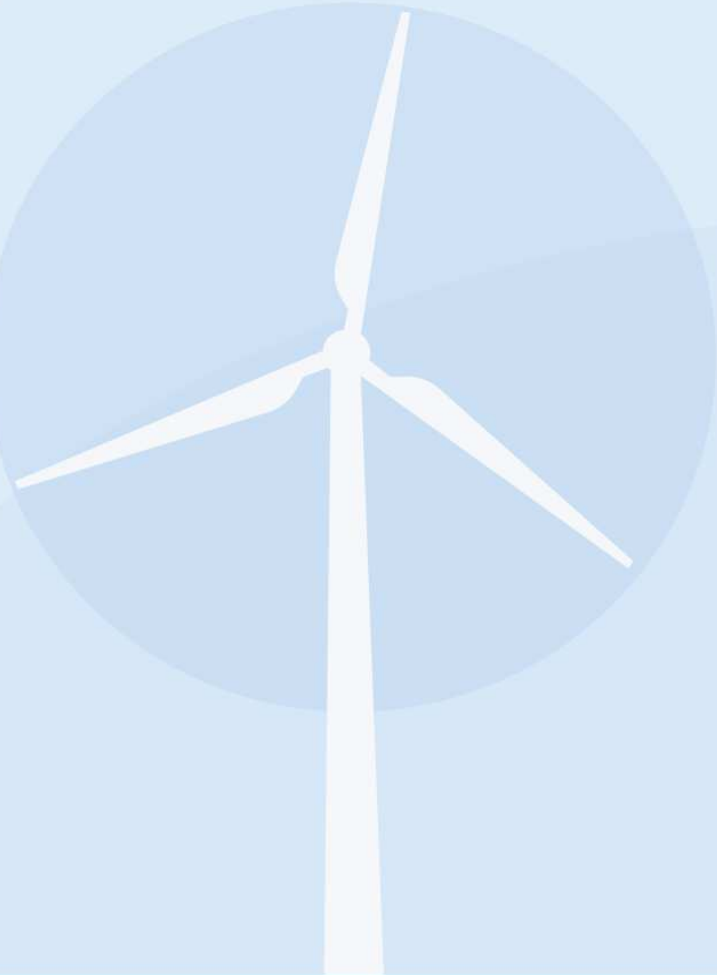
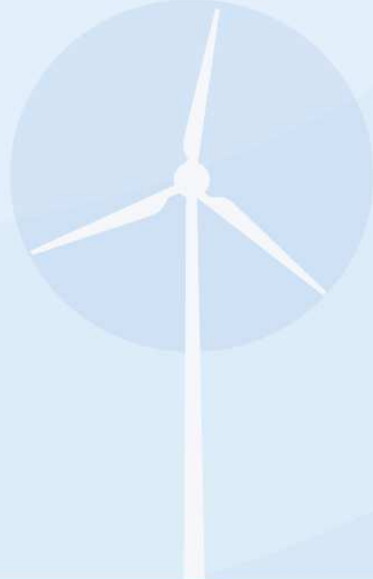


Rapid Advances in Offshore Turbine Technology

600'

360'

305'



Typical Onshore Turbine

Block Island Wind Farm Turbine



Boeing 747: 250'
BIWF Blades: 240'



Offshore Wind is a Huge Industry in Europe



Europe

3,072 turbines spinning in Europe today.

60,000 jobs in the European offshore wind industry.



USA

Zero turbines spinning in the United States.

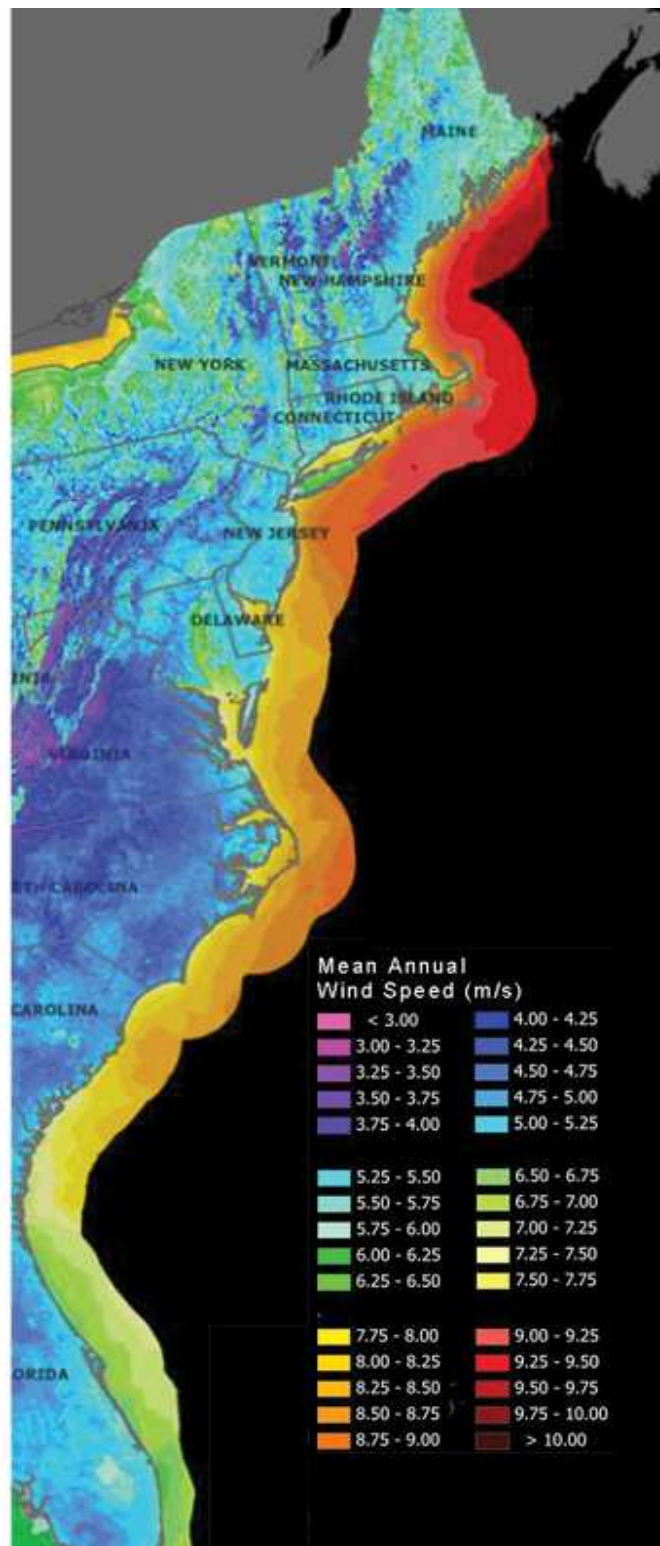
32,000 jobs by 2020, according to US Dept. of Energy.

Port of Bremerhaven

A hub of offshore wind construction and deployment, supporting more than 5,000 direct jobs in the region.



The
Potential
Offshore wind
delivers energy
when and where
it's needed most.



A map showing the location of the Block Island Wind Farm. It features a large blue area representing the ocean. In the top left, a small landmass is labeled 'RHODE ISLAND'. In the bottom left, a larger landmass is labeled 'BLOCK ISLAND'. A red line represents the power transmission cable, starting from a cluster of six red dots (representing wind turbines) in the ocean, passing through Block Island, and extending towards the Rhode Island mainland.

RHODE
ISLAND

- 30 MW
- 5x 6 MW turbines from GE
- 48% net capacity factor
- First ever electric connection between Block Island and the Rhode Island mainland built and owned by National Grid

BLOCK ISLAND WIND FARM
America's First Offshore Wind Farm

Foundation Installation Complete

Summer 2015



Cable Installation Complete

Summer 2016

Float in of cable on
Crescent Beach on
Block Island





Turbine Installation Complete

Summer 2016

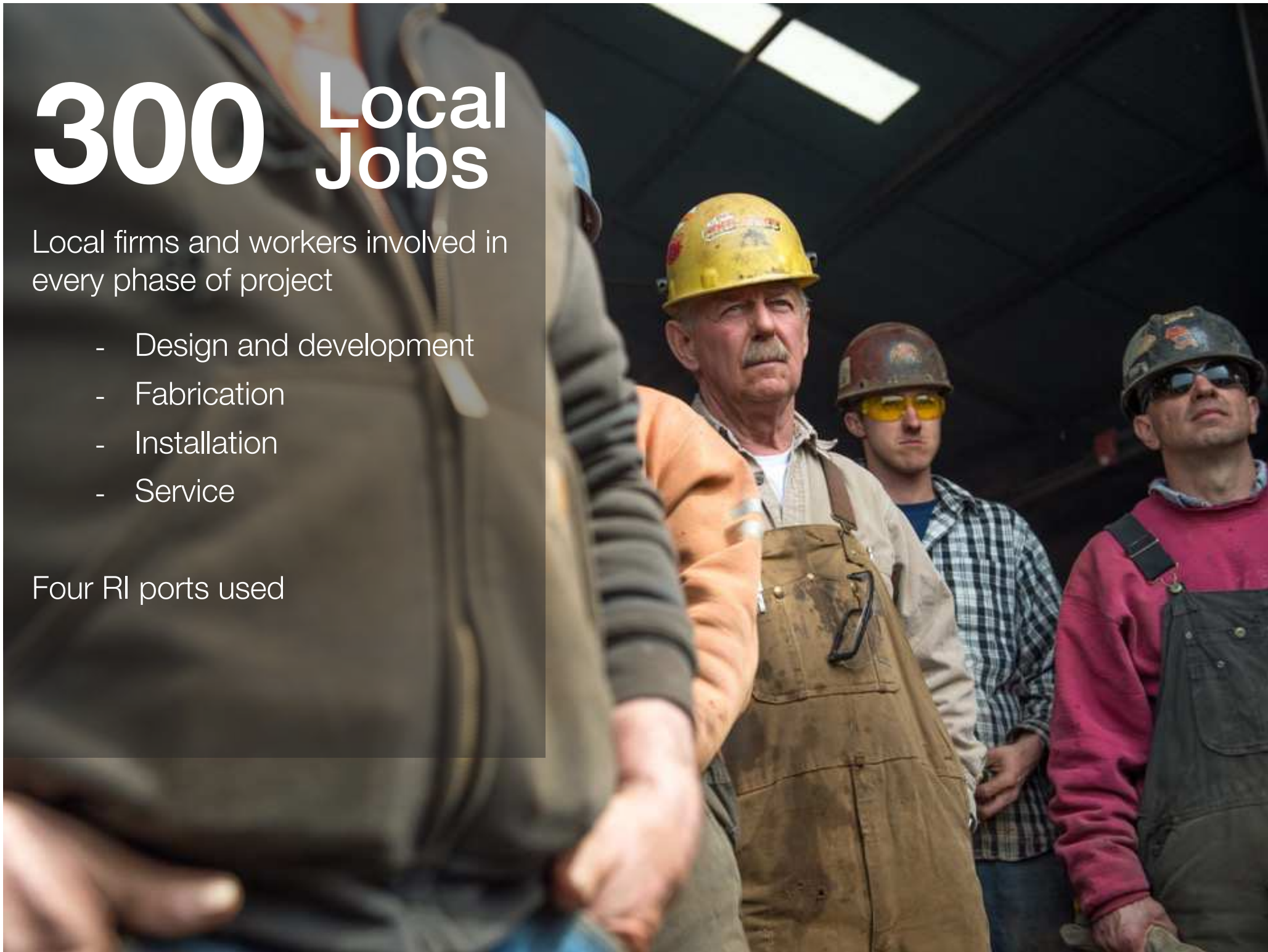


300 Local Jobs

Local firms and workers involved in every phase of project

- Design and development
- Fabrication
- Installation
- Service

Four RI ports used



The Best US Offshore Wind Site

- > Outstanding wind resource (9.5 m/s)
- > Buildable water depths (100 - 150 ft)
- > 1500 MW capacity

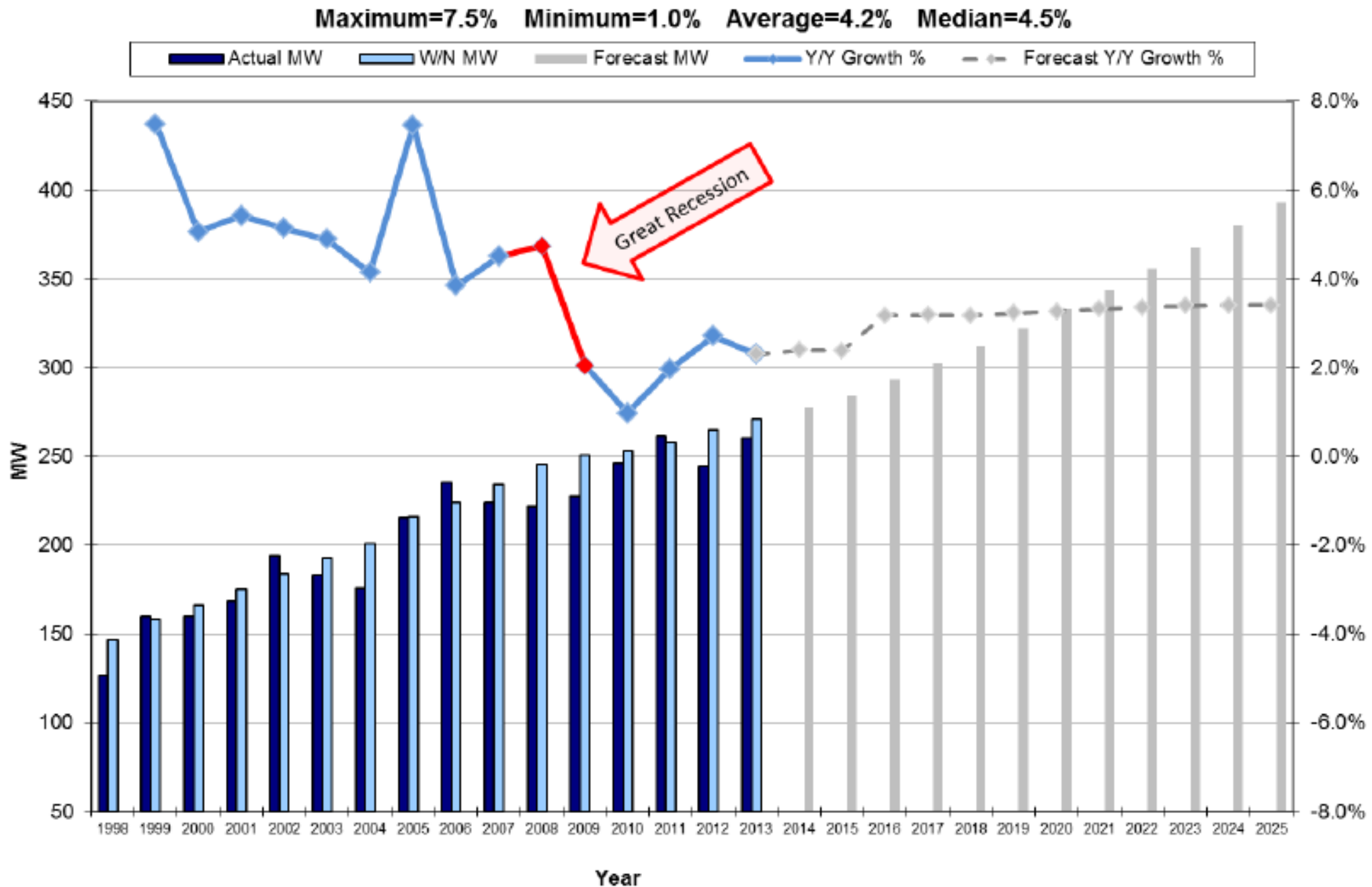
MASSACHUSETTS

RHODE
ISLAND

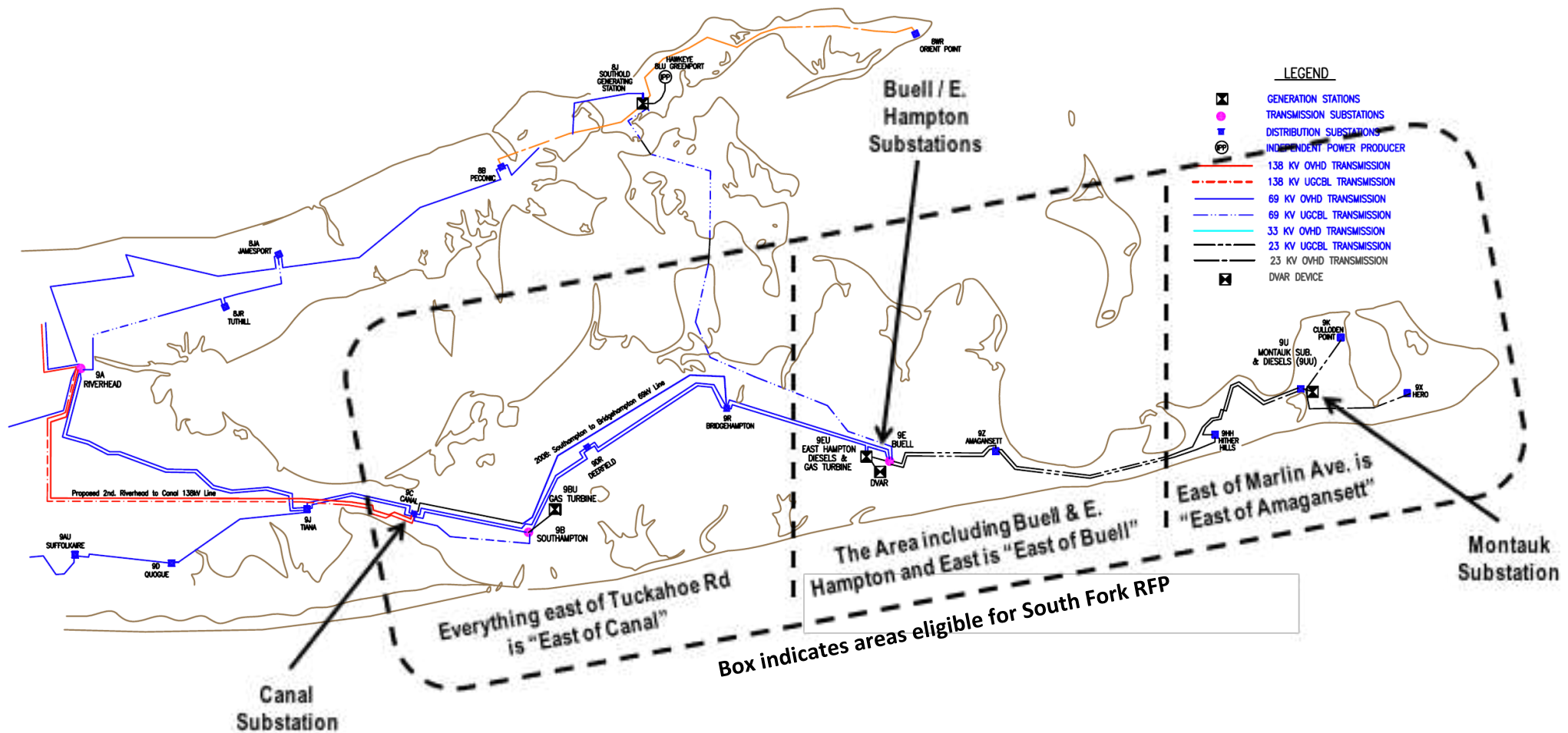
CONNECTICUT

LONG
ISLAND

Growing Need for Power on South Fork

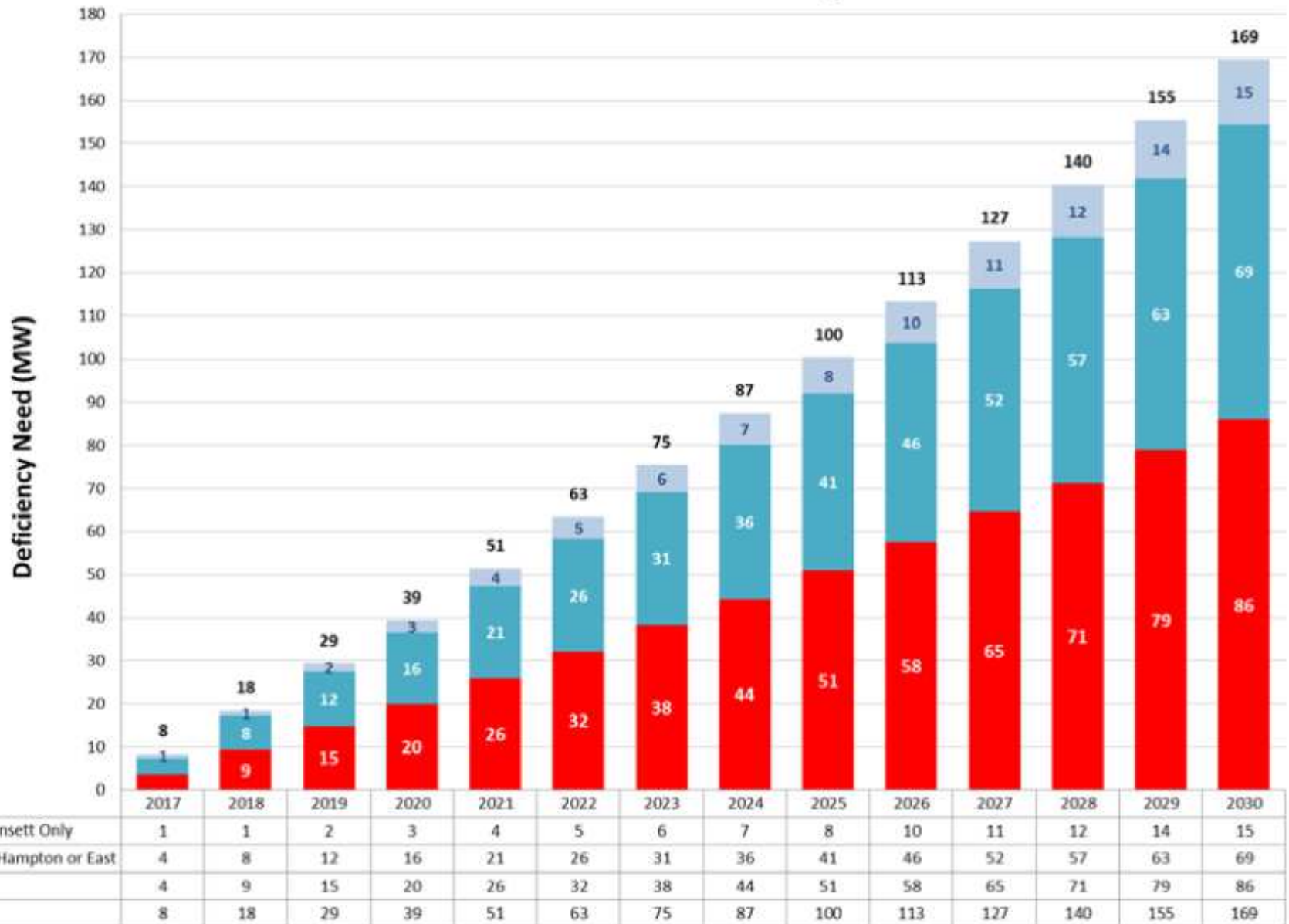


Building on the South Fork is Complicated



PSEG: “South Fork needs 169 MW by 2030”

South Fork Need 2017 through 2030



Deepwater ONE / South Fork

- 90 MW wind farm in 30 miles east of Long Island's South Fork
- Selected by the Long Island Power Authority as the least cost resource over multiple other technologies including conventional fossil-fueled power plants
- First phase of development in the Deepwater ONE site

