



**DEEPWATERWIND**

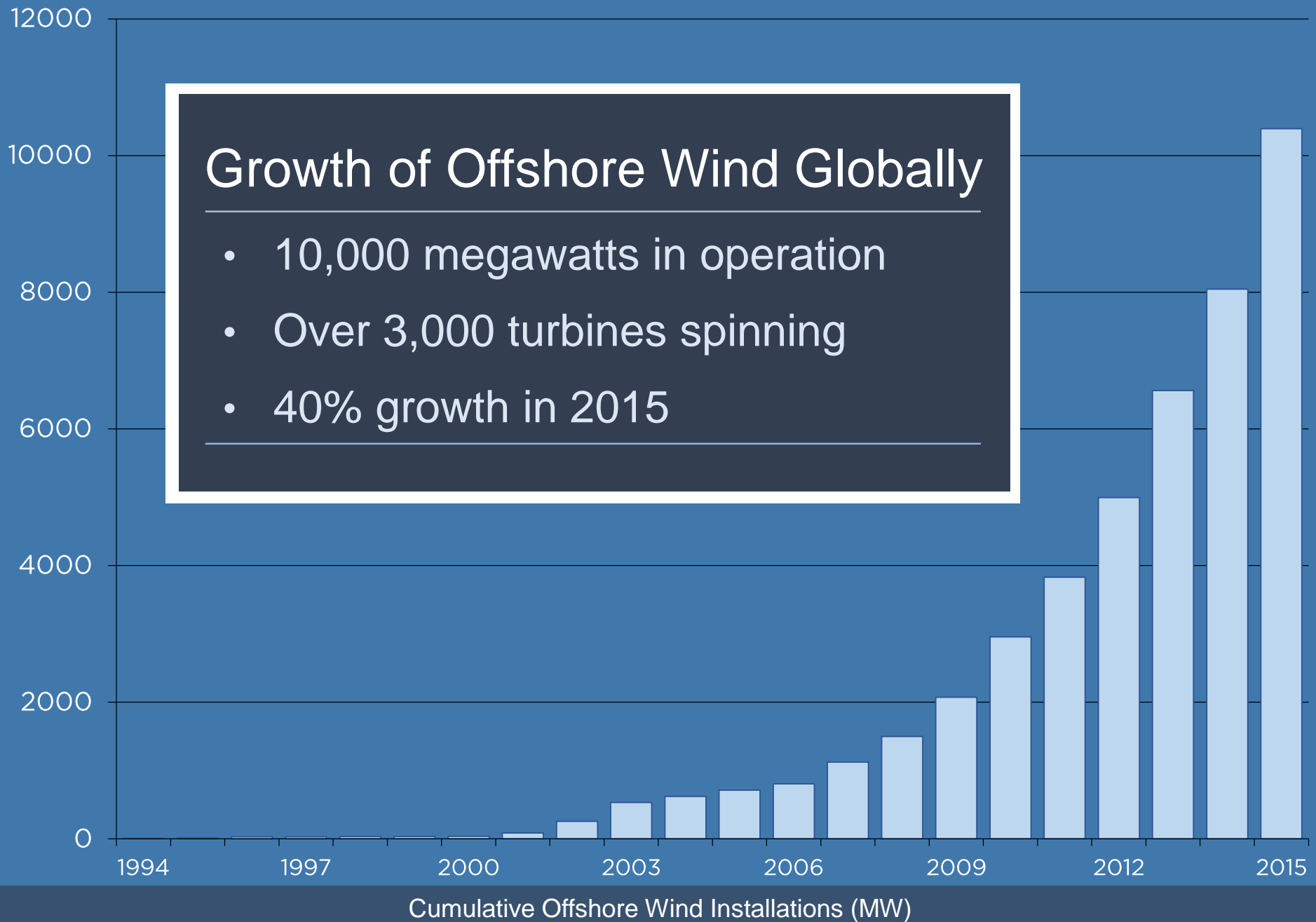
Clean energy is just over the horizon.

Launching a New Clean  
Energy Industry in America

Jeffrey Grybowski  
Chief Executive Officer  
September 28, 2015

## Growth of Offshore Wind Globally

- 10,000 megawatts in operation
- Over 3,000 turbines spinning
- 40% growth in 2015



# 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.

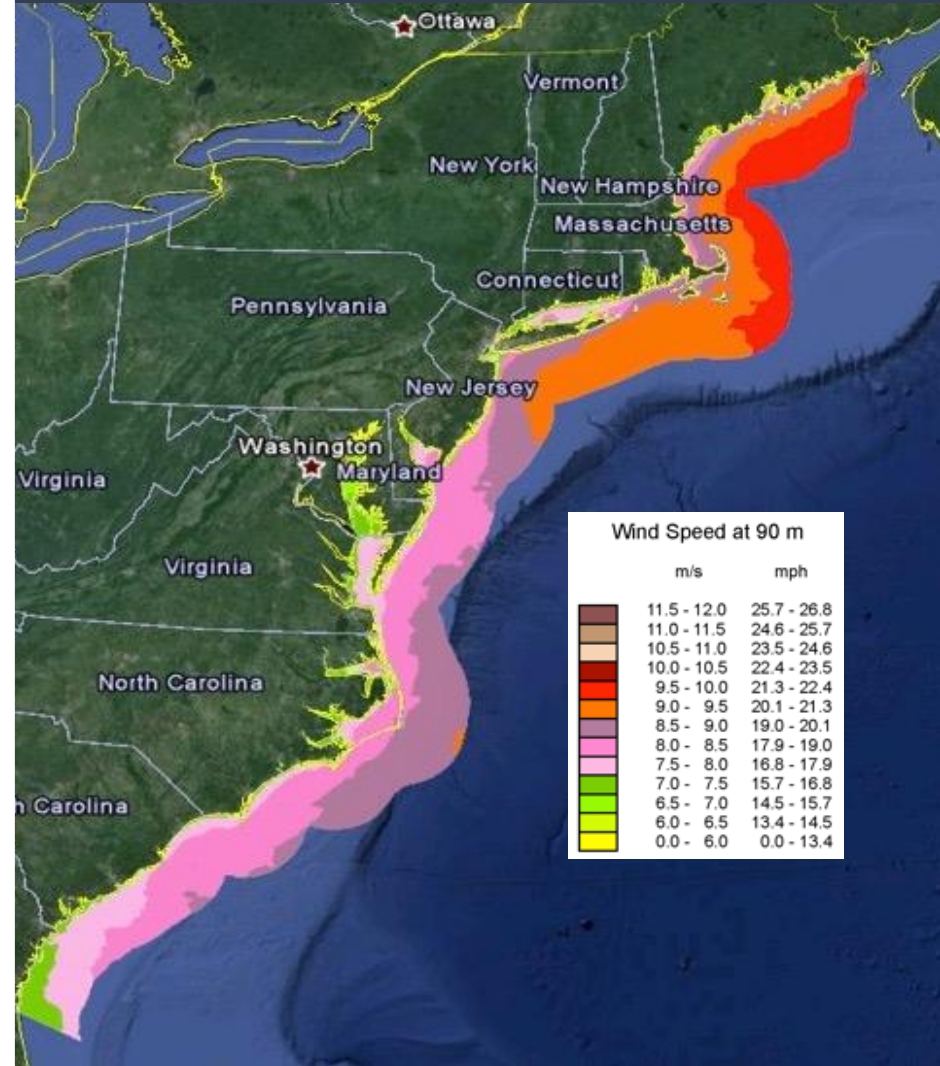
## Port of Bremerhaven

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



# The Potential






Offshore wind delivers energy where it's needed most.



# Regional Energy Challenge

Over 8,000 MW of Existing Generation at Risk



-  Offshore Wind
-  Hydro
-  Natural Gas
-  Closed or Retiring
-  At Risk

# The Opportunity

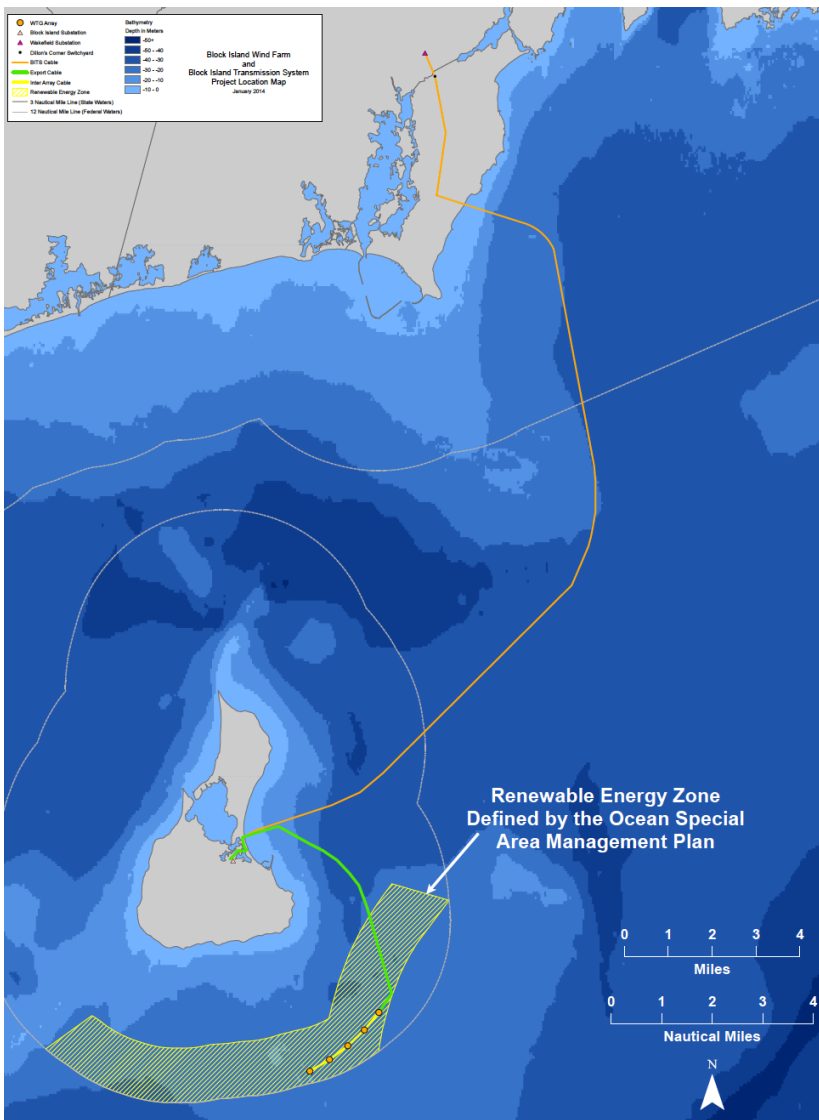
The Block Island Wind Farm is the first step to larger regional projects.





# BLOCK ISLAND WIND FARM

America's First Offshore Wind Farm



## Project

- Five 6 MW turbines (30 MW total)
- Enough energy for 17,000 homes
- In CRMC Renewable Energy Zone

## Benefits

- Over 300 construction jobs
- New cable to mainland
- National leadership position

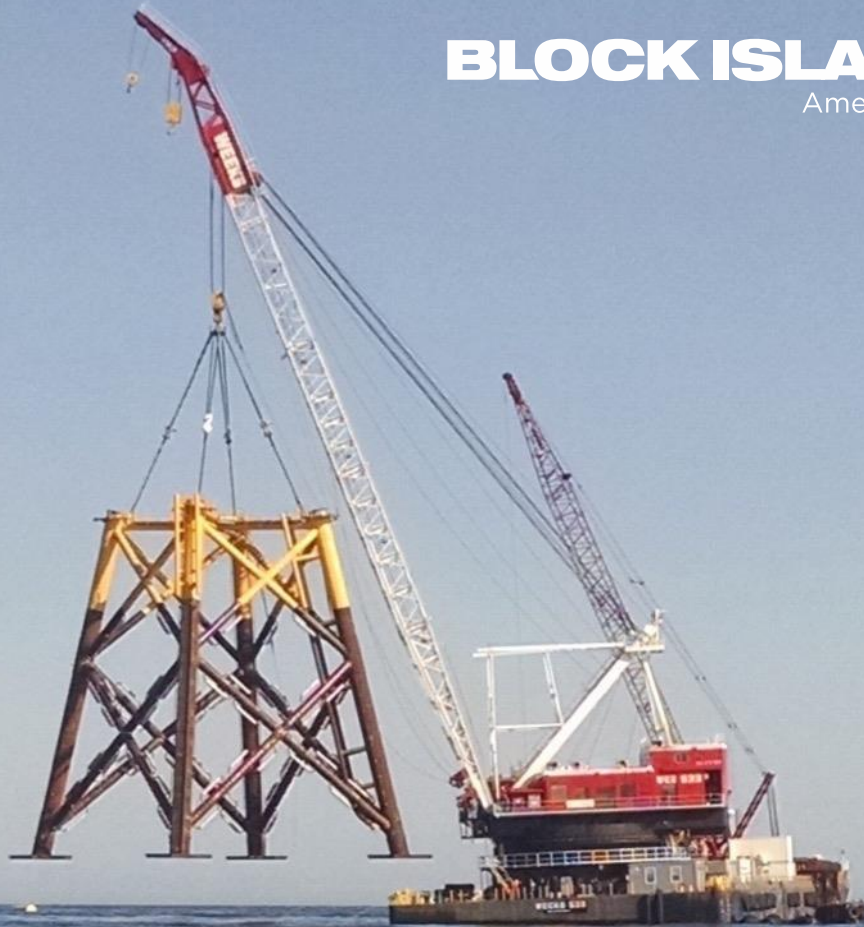
## Status

- Permitting – Complete
- Engineering – Complete
- Financing – Complete
- Construction – In Progress
- Commercial Operations – 2016



# **BLOCK ISLAND** WIND FARM

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# Activity

# RI Content

# When

1. Engineering and Project Management	Providence Headquarters	Since 2009
2. Foundation Fabrication	Subcontract at SDS in Quonset	Spring – Summer 2015
3. Foundation Installation	Using 50% RI labor	Summer 2015
4. Turbine Assembly	Assembly in RI port	Fall 2015 to Summer 2016
5. Cable and Turbine Installation	Using significant RI labor	Spring – Summer 2016
6. Operations & Maintenance Facility	Located in Quonset	20 years beginning 2016
7. Maintenance Vessel	Built in RI	2015 – 2016
8. Vessel Operations	Contract with RI firm	20 years beginning 2016



## Block Island Wind Farm Rhode Island Activities



Turbine Installation Vessel



Alstom Haliade 6MW

