

Virginia Commission on Energy and Environment August 18, 2009





ABOUT DEEPWATER WIND

Rhode Island

- Selected by the State of Rhode Island to be RI's preferred offshore wind developer
- Seven companies participated in that RFP
- Developing two offshore wind parks:
 - Block Island Wind Farm (up to 8 turbines in state waters)
 - Rhode Island Wind Farm (up to 130 turbines in federal waters)

New Jersey

- Selected by the State of New Jersey (along with our partner, PSEG) to develop NJ's first (pilot) offshore wind farm
- Four companies participated in that RFP
- Selected by New Jersey to receive \$4 million rebate, upon successful installation of offshore met mast (two other offshore wind developers to receive similar rebates) (These awards supersede pilot project.)



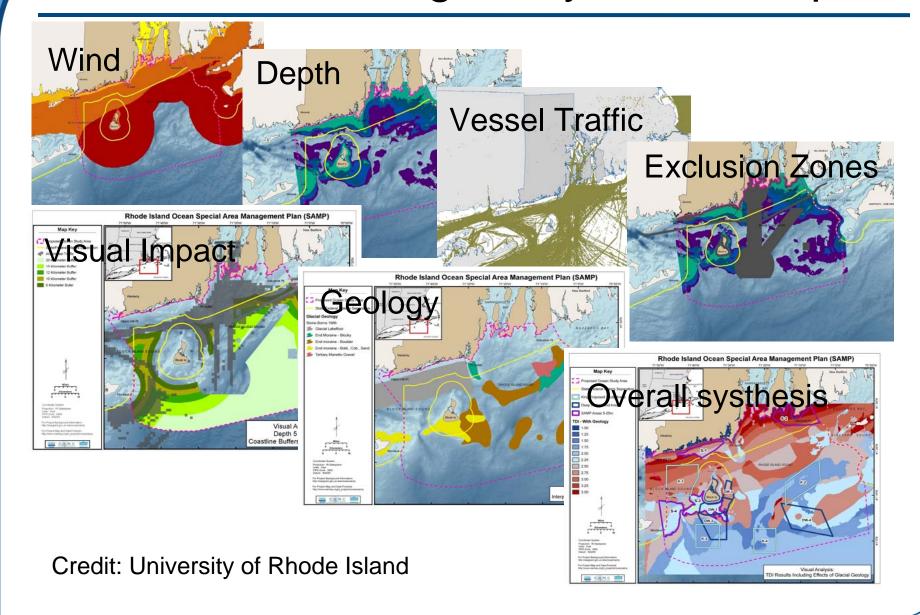
ABOUT DEEPWATER WIND

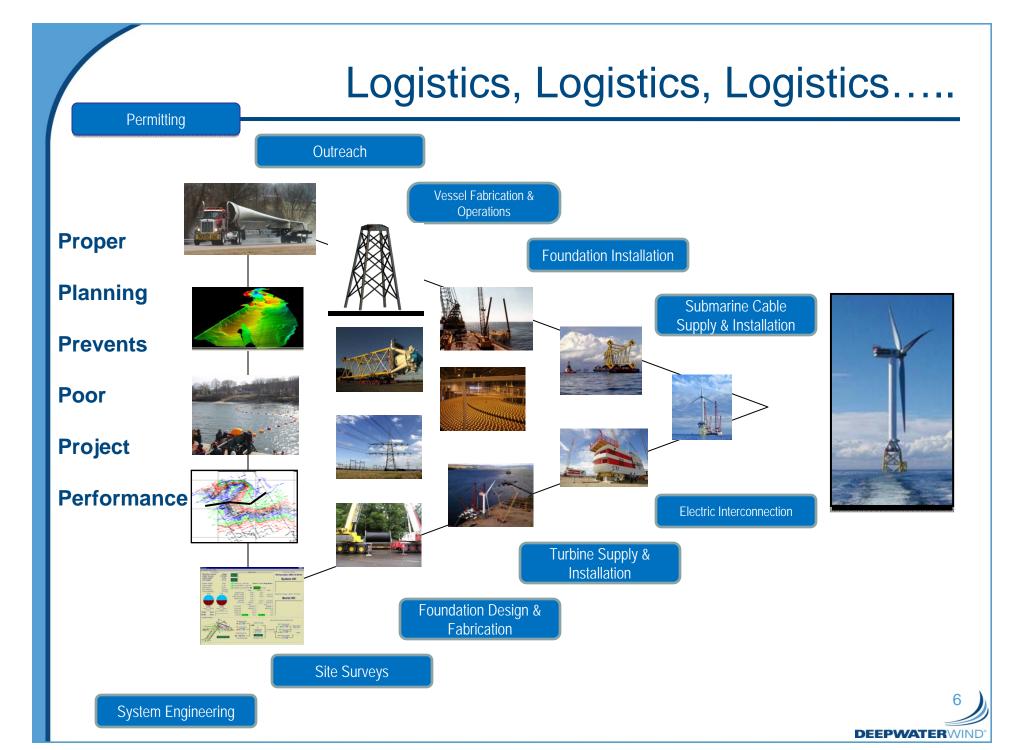
- New York
 - Developing project to serve New York City and Long Island
- Massachusetts
 - Developing project to serve Massachusetts RPS
- US Department of the Interior's Minerals Management Services (MMS)
 - Awarded Deepwater Wind two leases to develop met masts off New Jersey coast on Outer Continental Shelf
- US Department of Energy
 - Awarded Deepwater Wind \$300,000 for advanced bird and bat studies

Utility-Scale Offshore Wind Farm: Sample Data Points

- 100 130 Turbines, nameplate capacity of ~ 300 400 MW
- Costs range from \$1 Billion to \$1.5 Billion
- Provides enough renewable electricity to power 87,500 VA homes every year
- Several hundred jobs for 2-3 construction seasons
- 1.3 billion pounds of CO2 avoided annually
- 17 million barrels of oil imports avoided annually
- No fuel adjustment charges associated with wind, since our fuel, the wind, is always free

SAMP Siting Analysis - Examples

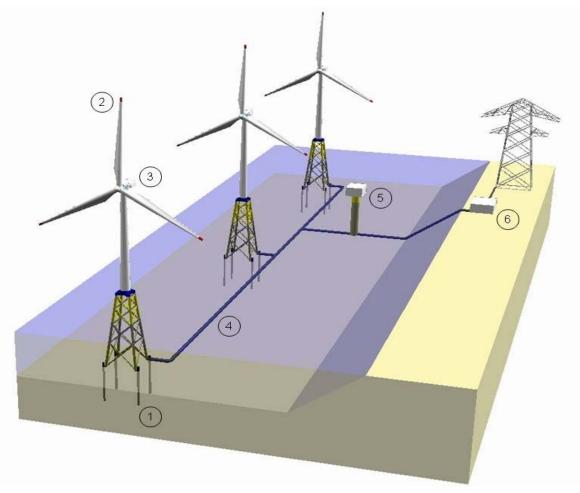




Offshore Wind Farm basics



- 1. Foundation
- 2. Wind Turbine Generator (WTG)
- 3. Nacelle
- 4. Inter-Turbine Submarine Cables
- 5. Offshore Sub-Station & Export Submarine Cable
- 6. On-Shore Grid Connection





Offshore Wind Construction















Offshore Wind Construction











Residential Electricity Usage and Prices: Averages of Sample States

State	Monthly Use (kWh)	Retail Rate (cents/kWh)	Monthly Bill
• RI	608	14.05	\$ 85.36
• NY	604	17.10	\$ 103.25
• NJ	730	14.14	\$ 103.28
• DE	960	13.16	\$ 126.40
• MD	1,086	11.89	\$ 129.15
• VA	1,207	8.74	\$ 105.55
• NC	1,143	9.40	\$ 107.38

Source: US Energy Information Administration:

http://www.eia.doe.gov/cneaf/electricity/esr/table5.html

CHALLENGES TO BUILDING OFFSHORE WIND FARMS IN THE UNITED STATES

- Locking down project costs
- Permitting the project
- Financing the project
- Managing project risks

OPPORTUNITIES FOR BUILDING OFFSHORE WIND FARMS IN THE UNITED STATES

- Federal Government
 - Economic Stimulus Funds
 - Production Tax Credits and Investment Tax Credits
 - Energy legislation that internalizes costs associated with carbon-based fuels
- State-based incentives
 - Port infrastructure
 - Efficient permitting regime
 - Financing structure for offshore wind
 - Renewable Portfolio Standard
 - Renewable Energy Certificates
- Buy American Create Jobs
 - Vessels
 - Turbines
 - Submarine cable
 - Other components



CLEAN ENERGY IS JUST OVER THE HORIZON



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