Deepwater Wind Project Highlights

Clean Energy for Healthy Communities

June, 2014
Deepwater is America’s Leading Offshore Wind Developer

- Committed capital partner in D.E. Shaw, which has sponsored many successful energy businesses
- Seasoned construction team with over 100 years offshore experience
- Building demonstration projects on both East and West Coasts
- Won BOEM’s 1st Lease Auction for a site with access to 3 attractive markets
- Key Partnership in New Jersey
Deepwater Projects: East Coast and West Coast

**Projects**
- New England
- New York
- New Jersey

**West Coast**
- Oregon: Jordan Cove
• **First offshore wind farm in US**

• **Size:** 30 megawatts – enough power for 17,000 homes

• **Revenue:** 20-year PPA with National Grid approved

• **Turbines:** Latest 6 megawatt offshore turbine

• **Cable:** 18 miles from Block Island to mainland

• **Construction:** 2015 / 2016 – 200 construction period jobs
Turbine Supply Agreement for Block Island

- Alstom to supply five Haliade 6 MW offshore wind turbine to Block Island

- Advanced direct-drive turbines are much more efficient and cost-effective than previous machines, lowering costs for ratepayers

- Same turbine as planned for Dominion’s offshore wind demonstration project
The Vessel We Will Use for Block Island
First Lease Auction: Deepwater ONE

- Deepwater site 30 miles from Montauk, **invisible from shore**
- Site developed through 3+ year stakeholder process
- Enough power for **120,000 Long Island homes**
Deepwater Wind has partnered with PSEG to form *Garden State Offshore Energy* (GSOE)

GSOE has proposed a 1,000 MW project to achieve *Economies of Scale* through integrated supply chain management:

- Purchasing Economies
- Construction Economies
- Shared Transmission Facilities
- Economic Development
Principle Power Partnership: WindFloat Pacific

- 1\textsuperscript{st} commercial floating Wind Farm in the world
- 5 Floating Structures each w/ a 6 MW WTG
- 18 mi off Coos Bay, OR in waters 300+ m deep
- BOEM awarded non-competitive lease
- DOE awarded a $47 MM development grant

Demonstration project deployed off Portugal
Offshore Wind Makes Sense: More Benefits than Costs

- Offshore wind will provide many unique benefits
  - Job Creation
  - Emissions Reductions
  - Price Suppression
  - Long Term Hedge

- Benefits significantly outweigh over-market cost (see 300 MW example, right)

- Counting all benefits is key
Price Suppression Explained

- The most efficient power plants are dispatched first
- Prices are set hourly by the last plant needed
- A new plant displaces less efficient plants, lowering prices for the entire market
Technology Improvements are Driving Down Costs

Turbines are getting larger...

- Offshore turbines are 3X larger today than they were 10 years ago

... which allows for improving economies of scale.

- Larger projects are more cost effective