Fishermen’s Energy, LLC
A New Paradigm

Presentation at the Virginia Wind Energy Conference
June 17, 2010

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VWEC Presentation

• Why Offshore Wind
• Why Fishermen’s Energy
• Initial Projects
Why Offshore Wind?

• Offshore wind energy offers the economic and environmental benefits of onshore wind with additional positive characteristics:

• Greater strength and consistency of offshore winds, which can be 25% stronger than nearby onshore winds;

• Siting wind farms offshore allows shorter transmission lines to East Coast highly populated load centers;

• Wind tends to be less turbulent, with less vertical wind shear, which reduces wear on turbines;

• Larger turbines can be used due to less land constraints and can design/operate turbines at higher blade tip speeds and optimizing for power rather than for minimizing noise;

• Presents an opportunity to create new manufacturing and assembly jobs as well as staging, maintenance, and seagoing activities in coastal cities.
Offshore Wind History and Potential

- The first offshore wind farm was a 5 MW project built in 1991 off the coast of Denmark.
- From almost no capacity in 2000, the industry grew to nearly 1,500 MW of installed offshore wind capacity by the end of 2008, with more than one fifth installed in 2008 alone.
- A large pipeline of projects suggests continued rapid growth and is indicative of the likely growth in the U.S. One report from a leading offshore oil and gas energy consultant predicts that installed capacity will grow from 1,500 MW today to over 55,000 MW in 2020.
U.S. Offshore Wind

• The U.S. has extremely high offshore wind capacity and the Department of Energy reports that the U.S. resource potential for offshore wind exceeds total U.S. demand.

• In the Atlantic alone, there is over 250,000 MW of potential in waters less than 100 ft. depth.
U.S. Offshore Wind

• Presently there is approximately 4,000 MW of offshore wind projects under discussion or development in the Northeast and another 1,400 MW in the Gulf Coast.

• Fishermen’s is one of the leading developers in the industry.

• Federal and State governments are supportive.
Typical Offshore Windfarm Photos
VWEC Presentation

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Why Fishermen’s Energy?

...because it is where we work!
Fishermen's Energy

• A community-based offshore wind developer

• Formed by principals of the New Jersey fishing companies to enable the fishing industry to participate in and invest in offshore wind energy

• Presenting a constructive program for alternative uses of waters off the East Coast

• Agents of Change rather than Victims of Change

• Extending participation to maritime industry participants from Maine to South Carolina
Introduction - Why is Fishermen’s Energy in Offshore Wind?

• We go to sea to fish, but we fish for dollars
• Key is where we are starting: Coastal Mid-Atlantic
  – Limited onshore wind in harvestable sites
  – Strength, consistency, reduced wind shear of offshore winds
  – Shallow water, sandy sea bottom suitable for technically mature monopile for foundations
  – Proximity of offshore wind to key load centers rather than transmission from Midwest
  – Political and economic support of our constituency
Fishermen’s Advantages

• Capital Base for early phase development
• Physical Assets
• Knowledge of the marine and seabottom environments
• Dedicated, skilled, and conscientious people
• Enduring local presence and deep ties to people, community, and government
Fishermen’s Energy Investors are principals of the fishing industry

www.atlanticcapes.com

www.lundsfish.com

Sea Products, Inc.

Dock Street Seafood

www.vikingvillage.net

Atlantic Shellfish

Truex Enterprises

Foxy Investments

www.thelobsterhouse.com

www.seawatch.com
Fishing Industry Investors – Series A

- Initial Investors are principals of leading east coast fishing companies with total sales of about $500 million, over 100 vessels, and facilities in Massachusetts, Rhode Island, New York, New Jersey, Maryland, and Virginia
  - Jeff Reichle – Lund’s Fisheries, Inc.
  - Keith Laudeman – Cold Spring Fish & Supply Company
  - Rick Hoff – Dock Street Seafood
  - Daniel Cohen – Atlantic Capes Fisheries, Inc.
  - Barney Truex – Sea Watch International & Truex Enterprises, Inc.
  - Martin Truex – Sea Watch International & Truex Enterprises, Inc.
  - James Meyers - Sea Watch International & Truex Enterprises, Inc.
  - Marion Larson – Viking Village
  - Kirk Larson – Viking Village
  - John Kelleher – Foxy Investments
  - Barry Cohen – Sea Products, Inc.
  - Warren Alexander, Independence Fishing

People who earn their living from harvesting the sea!
## World-class Development Team

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<tr>
<td>AMEC</td>
<td>Project Engineer, Environmental Lead</td>
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<tr>
<td>AWS Truewind</td>
<td>Wind Resource and Modelling</td>
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<tr>
<td>Thomas Hoffmann / Ballard Spahr LLP</td>
<td>NJ, Project, and Finance Counsel</td>
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<tr>
<td>Carolyn Kaplan - Nixon Peabody, LLP</td>
<td>Federal Permitting and Transmission</td>
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<td>Fieldstone Private Capital Group</td>
<td>Investment Banker</td>
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<td>Hughes/Zogby Center</td>
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<td>Rutgers University, Curry &amp; Kerlinger, Lomax &amp;</td>
<td>Environmental Assessment</td>
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<td>Energy Investors Advisors</td>
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**NJ Process as an example**

- August 2003 BPU commissioned study of offshore wind for NJ, completed in 2004
- Governor Blue Ribbon Panel issued report in December 2006 suggesting a pilot project
- BPU circulated pilot project RFP in October 2007
- DEP established Baseline Environmental Study Area in 2008
- October 2008 BPU establishes Energy Master Plan goal for OSW of 3,000 MW by 2020
- January 2009 BPU awards $12 million in met tower rebates to three developers that have Interim MMS Leases
- Baseline Environmental Study completed December 2009
- State Legislation introduced June 10, 2010 to authorize BPU to establish Offshore Wind Renewable Energy Credits
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New Jersey State Support

• Large New Jersey market: NJ Energy Master Plan calls for 1,000 MW of offshore wind by 2012 and 3,000 MW by 2020

• Political position of fishermen in the State

• Bi-Partisan alignment of Democratic Legislature and Republican Governor for Offshore Wind Development

• Fishermen’s state water project – 1st in country!

• Grant support and OREC legislation for ratepayer funded revenue enhancement/certainty program mean the economics are coming together
Fishermen’s Projects

• Advanced development of 20 MW wind farm in state waters off Atlantic City
  – New Jersey state waters location: permits in 2010
  – Potential for 2011/12 commissioning: 1st in country!

• 350 MW wind farm in federal waters
  – Active role with industry group to responsibly compress MMS permitting schedule

• Submitted Proposal to NYPA for Great Lakes

• Actively Following Virginia + MMS Developments

• Responding to RFPs and extending ownership Maine to South Carolina for additional projects
20 MW Project State Waters – Fishermen’s Atlantic City Offshore Wind Farm
20MW Project: Strong Local Support

Opinions on Wind Turbines at the Southern New Jersey Shore
Research by:

Zogby International
&
William J. Hughes Center for Public Policy at the Richard Stockton College of New Jersey

July 2009
20MW Project Visualization
20MW Project: Positive Public Perception

Feelings towards Atlantic City windmills

(Question 6 – after viewing pictures of windmills) On a scale of 1 to 5, where 1 is "completely opposed" to this idea and 5 is "completely in favor" of this idea, how do you feel about the idea of the proposed nine windmills three miles off the Atlantic City shore?

Large majorities of all groups are “in favor” of nine windmills three miles off of the Atlantic City shore.

Note: Those who answered 1 or 2 are “opposed”; those who answered 3 are “neutral”; those who answered 4 or 5 are “in favor”. 

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June 23, 2009 – MMS Interim Lease

Fishermen’s accepts one of the first U.S. offshore MMS Interim Renewable Energy Leases from Interior Secretary Salazar and New Jersey Governor Corzine
350MW Project in Federal Waters
Fishermen’s Energy Plans

• To date 100% investment from commercial fishing investors
• Strong core management and world-class technical teams in place
• NJ 20MW *1st in country*
• Coast-wide expansion with other projects
  – 350 MW in NJ, 150 MW in NY Great Lakes
  – Maine to South Carolina as politics, market, and technology allow
  – Series B Raise initiated for fishing and maritime participants
• Institutional Equity raise initiated in March 2010 by Fieldstone Private Capital Group
• Business plan scalable horizontally Maine to South Carolina, and vertically for construction and support vessels and O&M.
Fishermen’s Energy looks forward to bringing its collaborative approach to sustainable offshore renewable energy development to the Commonwealth of Virginia.
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