

OffshoreMW: Massachusetts Task Force Introduction



Blackstone

OffshoreMW is a Blackstone Group company

- Blackstone is world's largest independent alternative asset manager
- Investing for academic endowments, pensions, charitable institutions, etc.
- \$8 billion currently deployed in energy sector
- Latest energy fund oversubscribed at \$4.5 billion
- \$16 billion diversified global fund to co-invest with energy fund



Blackstone's offshore wind companies

- All led by the same senior management
- Sharing of technical resources and skills among companies
- **USA:** OffshoreMW
 - Massachusetts
 - New Jersey
 - New York
- **Germany:** WindMW
 - Meerwind
 - Nordlicher Grund
 - Others to be announced
- **Europe:** SeaMW



Meerwind

- **288 MW:** 80 @ Siemens 3.6 MW turbines
- German North Sea
- Water depths: 23-26 meters
- Monopile foundations
 - 70 m long; 5.5 m diameter
- Grid connection provided by utility
- WindMW owns and operates



Meerwind: Successful Completion

- **On schedule:**

- Aug 2011: Financial Close and start of manufacture
- Sep 2012: Installation commenced
- Apr 2014: Mechanical Completion

- **On budget:**

- ~ 1.2 Billion Euro
- 70% leverage

- **No lost-time accidents:**

- 4500 people worked directly on project at some point
- Peak employment: 2000

**Energy generated equivalent to amount used by 360,000 homes each year,
avoiding 1 million tons of carbon per year**



Meerwind experience specifically applicable to Massachusetts

- Fully non-recourse, project financed
 - Meerwind: first project financed OSW project in Germany
 - MA: Project finance approach only option
- Multi-contract: WindMW acted as its own General Contractor
 - Meerwind: Seven major supply/service contracts
 - MA: Multicontract approach necessary given nascent supply chain

Operations and Maintenance Base on Helgoland

- Helgoland is ~43 miles from mainland
- Meerwind is 12-18 miles away
- 30-40 fulltime; 100+ summer
- Accommodations in dedicated hotel
- Dockage for 5-6 service vessels
- Materials and spare part storage
- Back-up Control room



Community Partnership with Vineyard Power

Vineyard Power:

- A 501-c-12 non-profit energy cooperative
- Founded in 2009
- Members residing on Martha's Vineyard
- Currently representing 1,600 electric accounts
- Goal to have equity role in 100MW of OSW
- Installed 400kW of PV and developing an additional 300kW for island non-profits
- Promotion of EVs and smart-grid technology



VP and OffshoreMW Working Together

To date and on-going:

- Wind Farm siting
- Strategic planning for community input and participation
- Identifying resources requirements, including infrastructure
- State policy support necessary for all projects to succeed

Next:

- Support through permitting process
- Community involvement during project design/construction
- Explore job creation and economic development opportunities
- Develop ways to deliver more of the benefits of OSW to Martha's Vineyard