



# Cape Wind<sup>SM</sup>

Energy for Life.

[www.capewind.org](http://www.capewind.org)

*Project UPDATE March 25, 2009*

## 5 PUBLIC AGENCY REPORTS

- 1. Army Corps of Engineers, Draft Environmental Impact Statement (DEIS), November, 2004**
- 2. Massachusetts Energy Facilities Siting Board Decision, May, 2005**
- 3. Cape Wind Final Environmental Impact Report, March, 2007**
- 4. Minerals Management Service (MMS) DEIS, January, 2008**
- 5. MMS Final EIS, January, 2009**

## **State and Local Permitting Virtually Completed...**

- **MA Energy Facilities Siting Board voted unanimously March 12, 2009 to grant Cape Wind a ‘Composite Certificate’ encompasses all 9 State and Local permits & permissions related to electric cables.**
- **MA Office of Coastal Zone Management issued “Consistency Determinations”, January, 2009.**

# **Final Stages of Cape Wind's Federal Permitting**

- **MMS Record of Decision; Lease**
- **Army Corps of Engineers Section 10 Permit**
- **3<sup>rd</sup> No Hazard Determination from FAA**

# Wind Data Results

**Cape Wind would produce power when it is  
MOST NEEDED**

- **Strong winter production when natural gas availability is lowest – US Department of Energy White Paper, *Implications for Offshore Wind Generation and Fuel Diversity*, June, 2004**
- **Above average wind speeds in 11 of past 12 record electric demand summer events, due to sea breeze effect**

# Cape Wind Data Tower



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27 March 2009

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## Growing support for Cape Wind

- **Thousands of citizens on Cape & Islands, Clean Power Now**
- **Cape Cod Chapter League of Women Voters, Woods Hole Research Center**
- **Leading environmental & labor organizations**
- **MA Gov. Deval Patrick, MA Legislature**
- **Statewide, support is 86%**

## **Cape Wind Project Design – Site with optimal conditions**

- **Attain economy of scale / utility sized project**
- **Strong Wind – 8.7 M/sec average at site**
- **Shallow Water – under 16 meters**
- **High Availability – significant wave of less than 2 meter**
- **Protected Site – less than 6 meter extreme storm wave**
- **Reasonable proximity to robust electric interconnect that can handle the load**

**Jim Manwell, Director, U-Mass Renewable Energy  
Laboratory, Letter to MMS, 2006**

**“...It is quite understandable that Cape Wind proposes its project in the relatively shallow and protected waters of Nantucket Sound... The possibility of eventually going further and deeper will be enhanced by the experience that will be gained with the turbines in Nantucket Sound. It should also be noted that, although there is much benefit to be had by learning from offshore wind experience in Europe, there is no substitute for experience here as well. The northeast coast of the United States is not the same as either the Baltic or the North Sea. It is prudent that the first projects be relatively close to shore, and in relatively shallow water before moving further out. Nantucket Sound is a good place to begin.”**

## What's Next

- **Complete permitting by June of this year**
- **Obtain project financing – working with Barclays Bank – challenge & opportunity**
- **Construction will take about 2 years**

## Specialty Equipment – Needed...



*(Source: Mayflower Resolution)*

## Cape Wind's Lessons Learned

- **Challenge of going first... Cape Wind has helped U.S. evolve a regulatory framework**
- **Importance of education and perseverance**
- **Effectively mobilize supportive stakeholders, 'Thank You' to everyone in this room**