

Building A Sustainable Future for the Seacoast

Considering a Transition of the Portsmouth Naval Shipyard into a Wind Turbine Research, Fabrication and Maintenance Facility

The potential for offshore wind energy in NH and Maine

A U.S. Dept. of Energy report in June 2010 found that:

- There are **40,000 Megawatts (MW)** of wind power potentially available within 30 miles of the coast of New England, more than the region's current total need.
- Offshore of NH's tiny seacoast, there are at least **2,600 MW** of wind power potentially available – enough to provide current needs for the entire state.

A Report from the State of Maine in December 2009 found that:

- There are up to **150,000 MW** of wind power available within 50 miles of the Maine coast alone, the highest concentration of wind energy anywhere in the country!

150,000 MW is enough energy to power the entire East Coast or enough energy to retire every single nuclear power plant in the country.. and still have some energy left over.

What's Happening Now:



Floating 5 MW Turbine Design

- The State of Maine has proposed to provide **5,000 MW of offshore power by 2030** – more than twice what Maine currently uses – and **500 MW by 2020**.
- A Google-led consortium recently pledged **\$5 billion** to build an underwater transmission line up the East Coast over the next decade, to transfer power throughout the electric grid, from wherever generated to wherever needed.
- The US Department of Energy says we could generate **10,000 MW of offshore wind power by 2020** and **54,000 MW by 2030** on a national level.
- Offshore wind turbine technology has come a long way. The latest designs feature floating turbines which allow for cheaper installation, placement further offshore, and much less interference with marine and bird life.

Why the Portsmouth Naval Shipyard (PNSY)?

- PNSY devotes huge financial resources and key waterfront real estate to the maintenance and refueling of Cold War-era submarines which are costly, often impracticable and increasingly unnecessary.
- PNSY is ideally suited as a technology research, fabrication and maintenance facility because it:
 - contains significant waterfront industrial infrastructure - dry docks, heavy lift cranes, warehouses.
 - has an existing workforce trained in marine engineering, construction/repair and maintenance.
 - is perfectly located for deep-water access to Maine, New Hampshire and Mass. offshore sites.



A Precedent for Public – Private Partnerships:

A US Navy program designed for this very application, the “Enhanced Use Leasing Program,” allows the Navy to “maximize the utility and value of real property” and provide “greater flexibility for facility use and reuse.” Other military facilities around the country are already hosting private development, including renewable energy projects.

A Vision for Seacoast Future Power Needs:

This...



Schiller Coal Plant - Portsmouth, NH

- One-half million tons CO₂ per year
- Mercury, smog, acid rain

or This?



5 MW Wind Turbines, off Germany

- Zero pollution, minimal impact
- Modular, resilient, reliable

Sustainable Power, Sustainable Jobs & Economy

- ▶ The State of Maine wind power plan would bring **\$20 billion** to the state economy and create **15,000 jobs!**
- ▶ Green tech. is among the fastest growing sectors, and offshore wind could bring **\$15 billion** to coastal ports
- ▶ Studies show that military maintenance is much less job-intensive than other industries, including green ones

The Future is Ours to Build

We don't need our tax dollars forever going to maintain increasingly unnecessary nuclear-powered submarines.

We need clean energy, green jobs and a sustainable future.



A Project of **Alliance for a Seacoast Shipyard in Sustainable Transition (WindASSIST)**: Seacoast Peace Response, Seacoast Anti-Pollution League, Seacoast Area Renewable Energy Initiative (SEAREI), Portsmouth-Severodvinsk Connection, NH Peace Action, Peace Action Maine and 350 NH

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For more information or how to get involved, please contact Doug Bogen at **dbogen@metrocast.net**

Reports mentioned above:

State of Maine Ocean Energy Report: http://www.maine.gov/dacf/mcp/downloads/finalreport_123109.pdf

US Dept. of Energy Offshore Wind Report: <http://www.nrel.gov/docs/fy10osti/45889.pdf>