

Presentation given at the Marine Katoomba meeting

**Katoomba XVI:
Building a Blueprint to Harness New Investment for the Protection
of Marine and Coastal Ecosystem Services**

February 9-10, 2010

Moore Foundation, Palo Alto, CA

Hosted by the Katoomba Group



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Fishermen's Energy of New Jersey, LLC

KATOOMBA MEETING XVI

***Harnessing New Investment for the Protection of
Marine and Coastal Ecosystem Services***

Offshore Wind Energy

Power from the Sea

Moore Foundation

Palo Alto, California

February 9, 2010



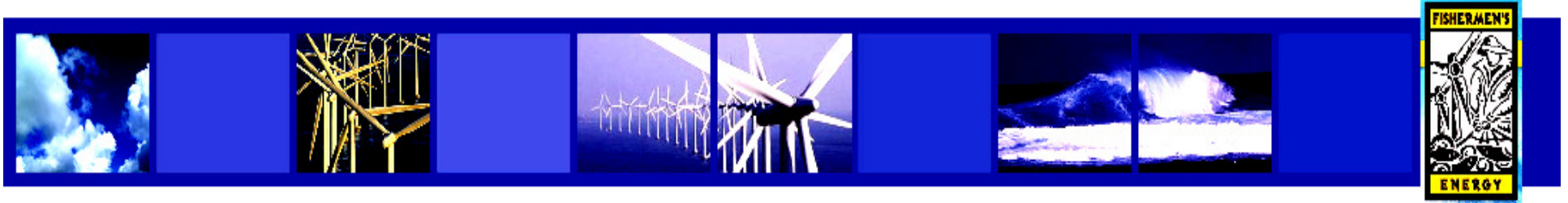


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www.fishermensenergy.com

Offshore Development: Implications for Business, Communities and Government

- **Fishermen's Energy**
 - What is Fishermen's Energy
 - From Opposition to Development
 - Our Vision for the Future
- Our Progress and Projects
- Cumulative Impact of Offshore Wind Farms
- Marine Spatial Planning
- Offshore Aquaculture
- What is Fishermen's doing now?
- How can you help Fishermen's?



Why Fishermen's?...because it is where we work!



...Power From The Sea!



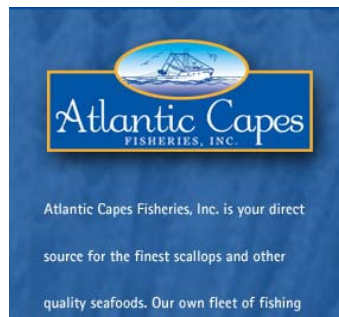
Fishermen's Energy

- 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 fishing industry participants from Maine to South Carolina



Fishermen's Energy Investors are principals of the fishing industry

www.atlanticcapescapes.com



www.lundsfish.com



www.essf.com

Sea Products, Inc.

www.vikingvillage.net

Cold Spring Fish & Supply Co.



Atlantic Shellfish

Dock Street Seafood

Truex Enterprises

Foxy Investments

www.thelobsterhouse.com

www.seawatch.com



Fishermen's Energy Paradigm

- Siting to minimize impacts to fishermen while maximizing offshore energy production and maritime safety
- Enabling members of the local commercial fishing industry to invest directly in offshore wind development
- Creating profit for local businesses serving as vendors both land-based and water-based
- Contributing to fisheries science in collaboration with academic institutions and industry associations
- Offshore wind farms should mitigate losses to fishermen in specific circumstances where impacts are localized and cannot be adequately addressed by other options



How can Fishermen's do it?

....the right team

- Professional team:
 - Strong core management team
 - World-class technical & engineering consultants
 - Experienced European finance and construction advisors
- ...backed by decades of maritime knowledge and skills:
 - Comprehensive knowledge of sea-bottom
 - Experience handling machinery in high winds and in rough seas
 - Control of key upland docks and waterfront on the coast
 - Dedicated, experienced, employees who make their living on the sea, with their fishing opportunities capped and wanting to transfer to new offshore employment!



Our Progress and Projects



NJ BPU Solicits 350 MW Pilot Wind Farm for NJ

- October 3, 2007 BPU Solicits proposals for Pilot Wind farm
- Fishermen's Energy surprises public on March 3, 2008 by submitting competitive proposal – one of five submitted
- Unique ideas – Two Projects
 - 20 MW Demonstration State Water Atlantic City Offshore Wind Farm
 - 350 MW Federal Waters MMS Utility Scale Offshore Wind Farm
 - Cooperative Offtake
 - USDA Financing
 - Fishermen Developers
- Paradigm Shift
 - Governor seizes opportunity
 - Accepts three proposals not one
 - Increases NJ goal from 350MW to 1000MW and 3000MW by 2020

Proposal to Develop
Off-Shore Renewable Energy Facilities
Supplying Electricity to the Distribution System
Serving New Jersey: Blue Ribbon Wind, Phases 1 and 2

Prepared for:
New Jersey Board of Public Utilities

March 3, 2008

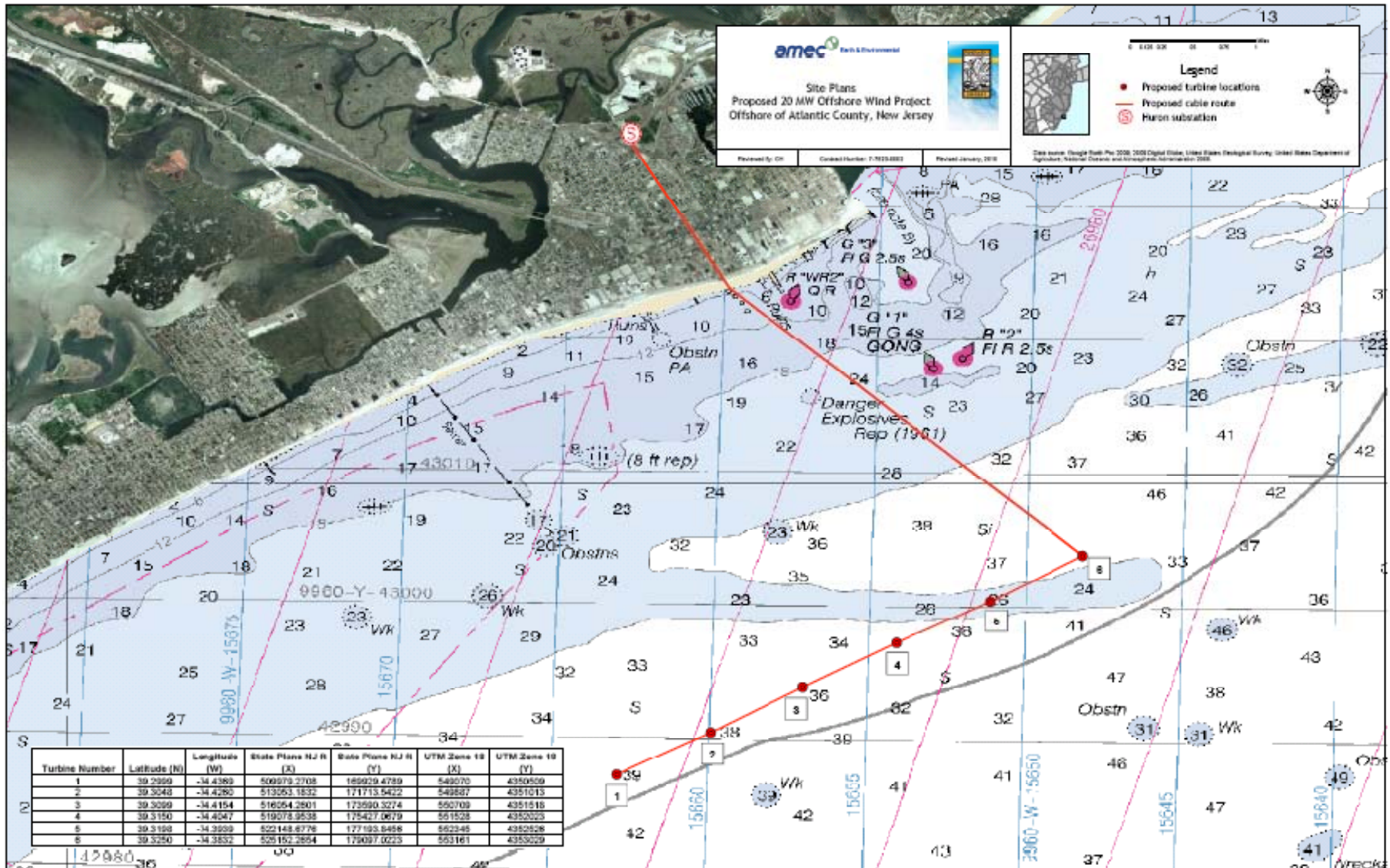
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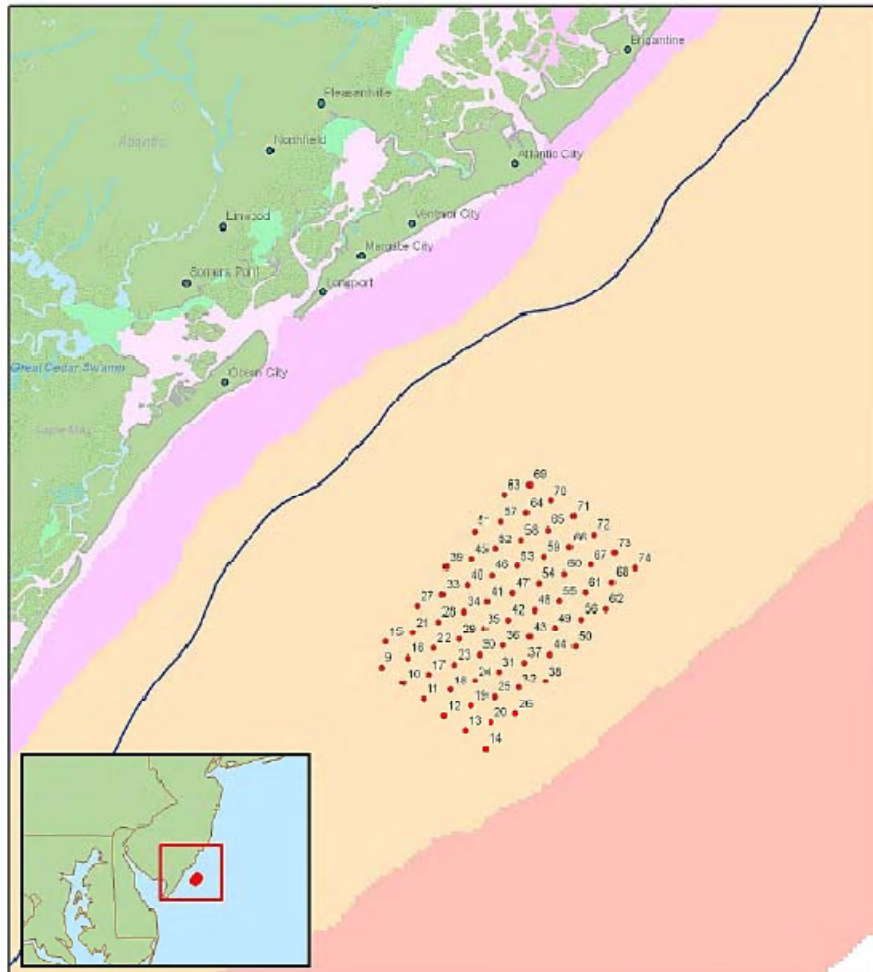


20 MW Project State Waters – Fishermen's Atlantic City Offshore Wind Farm





350 MW Project – Federal Waters MMS – Fishermen's Offshore Wind Farm





Fishermen's Energy – 2009 Progress

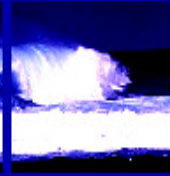
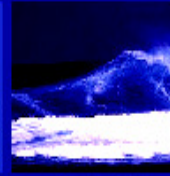
- Positive Stockton / Zogby Public Opinion Polling from Visualizations
- Support letters from Environmental Groups
- NJ DEP Drafted New Rules to Facilitate 20 MW Demonstration Project
- Initial Avian, Bat, and Marine Biota Risk Assessments show no risk
- City of Atlantic City unanimously approves installation of transmission cables under Beach and Boardwalk
- Working with new Governor on revenue certainty for offtake and financing
- Working with SJ Port Corporation to attract manufacturing and green jobs
- Geophysical studies in federal waters for 350MW met tower
- Application preparation for 20MW Offshore Wind Farm



June 23, 2009 in Atlantic City

Secretary Salazar and Gov Corzine Award 1st U.S. Offshore Interim Renewable Energy Leases





Meteorological Data Collection Tower

- BPU Rebate Approved Jan 2009
- Construction 2010 or 2011 depending on policies of new Governor
- Geophysical September 2009
- Deck / Foundation Design 2010
- *Wind, Wave, Avian, and marine life monitoring*
- *295 ft total height (90m)*
- *70 ft water depth*
- *35'x35' platform deck*





Cumulative Impact of Offshore Wind Farms



Marine Spatial Planning

- Mobile gear fishermen opposed
- MSP can only result in being excluded from traditional fishing ground
- Fear of 'takings' without 'compensation'
- Should include plans for mitigation



Offshore Wind and Aquaculture



Offshore Wind

- Offshore Wind driven by:
 - 350MW windfarm abt \$1.3 Billion – does the public recognize the real costs of building utility scale wind farms?
 - Societal commitment to renewables – is our society really committed?
 - Societal commitment to fixed 20 year prices – will the public commit to pricing similar to European Feed-in-tariffs?
 - Offshore Wind will never be driven by aquaculture



Offshore Aquaculture

Offshore Aquaculture in conjunction with Offshore Wind is future thinking and probably window dressing for the real scope of Offshore Wind, problems include:

- Exclusion of existing fishing industry
- Capital requirements for offshore aquaculture development
- Native vs. Non-native species
- Carnivore vs. Herbivore
- Significant need for research into new species and technologies appropriate for East Coast Offshore
- Not a panacea or a quick fix
- US Aquaculture growth restricted due to price competition of aquaculture from China and Asia



WHAT TO LOOK FORWARD TO:

- Fishermen's Energy 20 MW NJ State Water Project could be 1st Offshore Wind farm in US
- In 2010 Fishermen's Energy will organize Fishermen from Maine to South Carolina to join
- In current policy flux and development phase Fishermen's seeking PRI and institutional investment to join with Fishermen's
- Will the US and State policies develop to have balanced development of ocean resources?
- **CATCH THIS - *STAY TUNED!***