



Friends of Penobscot Bay

People who care about Maine's biggest bay.

November 26, 2017

To: Ms. Kathleen Leyden. Maine Coastal Program
Maine Department of Agriculture, Conservation and Forestry
93 State House Station
Augusta, Maine 04333-0038

Subject: Maine Freedom of Access Act request

Dear Ms Leyden

Please treat this letter as a request pursuant to 1 M.R.S.A. 408, the Maine Freedom of Access Act, to inspect and to copy as necessary the following records:

Public records in custody of you or your staff dating from April 1, 2017 to November 26, 2017 that pertain to the Maine Aquaventus floating ocean wind turbines project, slated to occupy the Maine Offshore Wind Test Center.

These include relevant paper and digital records of letters, faxes, email, phone notes, audio or video meeting recordings or other relevant paper or digital files received, written or sent by you and your staff during the April 1/ November 26, 2017 time period.

I look forward to receiving your response within five (5) working days of your receipt of this letter, as required by 1 M.R.S.A. 409 (1).

I am prepared to inspect and review and copy these requested records at your office. Please contact me to set an appointment to review these records. If you choose to deny permission to so inspect or copy any of the requested records, please state the reason for the denial, including the appropriate legal citation(s).

If you require additional information to locate any of the documents requested, call me at 691-7485 or contact me by return email.

Sincerely,



Ron Huber, executive director
Friends of Penobscot Bay
POB 1871, Rockland Maine 04841

e: coastwatch@gmail.com web: www.penbay.net
tel: 207-691-7485 cell 207-593-2744

cc Brenda Kielty, Maine Public Access Ombudsman

Leyden, Kathleen

From: Burrowes, Todd
Sent: Thursday, May 11, 2017 5:22 PM
To: Marvinney, Robert G.; Leyden, Kathleen; Nixon, Matthew E
Subject: RE: LD 1262 - Protect Monhegan

Hi, Bob. The work session on this bill was brief. There was little discussion. As I recall, one legislator suggested that if enacted the bill would send an adverse signal regarding the business climate in the state. The ONTP vote was unanimous among those present and voting.

- Todd

From: Marvinney, Robert G.
Sent: Thursday, May 11, 2017 4:46 PM
To: Leyden, Kathleen; Nixon, Matthew E; Burrowes, Todd
Subject: LD 1262 - Protect Monhegan

Voted ONTP in work session yesterday.

Leyden, Kathleen

From: Nixon, Matthew E
Sent: Tuesday, May 16, 2017 12:53 PM
To: Leyden, Kathleen
Subject: FW: Maine Aqua Ventus Meeting (May 4, 2017)

From: Andy Qua [<mailto:Andy.Qua@KleinschmidtGroup.com>]
Sent: Tuesday, May 16, 2017 12:42 PM
To: Nixon, Matthew E
Cc: Burrowes, Todd
Subject: RE: Maine Aqua Ventus Meeting (May 4, 2017)

You are welcome Matt.

Yes, I will get Todd on here too. My record for getting him looped into projects lately needs to improve!

Todd – we think CZMA is part of the DEP general permit, but were planning to get in touch to talk with you about other components of the overall project. It might be worthwhile to come to your office for a brief face-to-face. I have a meeting lined up with DEP in the afternoon on June 6th. Do you have any availability in the morning on the 6th?

Thanks very much.
Andy

From: Nixon, Matthew E [<mailto:Matthew.E.Nixon@maine.gov>]
Sent: Tuesday, May 16, 2017 11:46 AM
To: Andy Qua <Andy.Qua@KleinschmidtGroup.com>
Cc: Burrowes, Todd <Todd.Burrowes@maine.gov>
Subject: RE: Maine Aqua Ventus Meeting (May 4, 2017)

Thanks for this, Andy. Would you be able to add Todd Burrowes from our staff to this distribution list? Thanks!

-matt

From: Andy Qua [<mailto:Andy.Qua@KleinschmidtGroup.com>]
Sent: Tuesday, May 16, 2017 11:05 AM
To: wende_mahaney@fws.gov; Jay.L.Clement@usace.army.mil; diana.heyder@ee.doe.gov; Wilson, Carl; Marc.Nault@maine.gov; Tierney, Katherine; Susan.Tuxbury@noaa.gov; lori.gray@ee.doe.gov; Kemper, Keel; Chamberlain, Kristen; Benoit, Nathaniel; Stratton, Robert D; mark_mccollough@fws.gov; Beyer, Jim R; Callahan, Beth; DiBello, Carol; Noll, John; Beyer, Stacie R; Hallowell, Dawn; Michele.E.DesAutels@uscg.mil; David.T.Bourbeau@uscg.mil; patrick.keliher@maine.gov; Cotnoir, Sarah; Todd, Charlie; Nixon, Matthew E; Sullivan, Kelsey M; Bergeron, Mark; Cloutier, Rene; Taylor, Joyce; mike.r.johnson@noaa.gov; David.Bean@noaa.gov; jordan.carduner@noaa.gov; jeff.murphy@noaa.gov; LeeAnn.Neal@usace.army.mil; Perry, John; Spiess, Arthur; Mohny, Kirk; Hopkin, Megan M; Marden, Kendall R.; Bensinger, Peggy
Cc: Peter Browne; jeffrey_thaler@maine.edu; njohnson@orpc.co; jsward@maine.edu; damian.brady@maine.edu; anthony.viselli@maine.edu; Kayla Easler
Subject: Maine Aqua Ventus Meeting (May 4, 2017)

Good morning –

Attached for your information is a meeting summary, with sign-in sheets, and a copy of the two slideshows that were presented at the May 4th meeting in Augusta.

For those of you in attendance, please provide any comments or corrections you may have. If I have mischaracterized any comments, questions or incorrectly identified those who made them, please let me know and I will make those corrections.

Thank you very much,
Andy

Andrew D. Qua
Senior Regulatory Coordinator
Kleinschmidt
Office: 207.416.1246
www.KleinschmidtGroup.com

*Providing **practical** solutions for **complex** problems
affecting energy, water, and the environment.*

Leyden, Kathleen

From: Mendelson, Meredith
Sent: Monday, May 01, 2017 6:59 AM
To: Leyden, Kathleen
Subject: Fwd: CZM performance indicators for NOAA evaluation

Change of plan. We are going to send Denis to the AquaVentus meeting and have Kohl come to meet with the team.

Sent from a mobile phone. Please excuse brevity and/or typos.

From: Kanwit, Kohl
Sent: Sunday, April 30, 2017 9:27:51 PM
To: Leyden, Kathleen; Nault, Denis-Marc
Cc: Mendelson, Meredith; Gilbert, Deirdre
Subject: RE: CZM performance indicators for NOAA evaluation

Just an FYI Kathleen, it will be me not Denis on Thursday. See you then

From: Leyden, Kathleen
Sent: Wednesday, April 26, 2017 9:24 AM
To: Nault, Denis-Marc
Cc: Kanwit, Kohl; Mendelson, Meredith; Gilbert, Deirdre
Subject: CZM performance indicators for NOAA evaluation

Hi Denis. I'm glad that you'll be joining us next Thurs for the NOAA evaluation. I'm not sure to what extent the NOAA team will want to discuss performance indicators, but here is some background and attached is the cumulative data we've been submitting to NOAA with the help of DEP and DMR.

Background -- Five years ago, NOAA required that we track performance on 3 indicators of our choice. We developed the shellfish/water quality indicator with Kohl and Alison's input at that time. We've been tracking the measure and have met the goals established at that time. It would help if you were somewhat familiar with this information.

Please let me know if you have any questions. Thanks. Kathleen



KATHLEEN LEYDEN | DIRECTOR, MAINE COASTAL PROGRAM
Maine Department of Agriculture, Conservation and Forestry
Bureau of Resource Information and Land Use Planning
93 State House Station Williams Pavilion | 17 Elkins Lane | Augusta, ME 04333-0093
(207) 287-3144 ph | (207) 287-8040 fax | www.maineoceanprogram.org

New England Aqua Ventus Demonstration Offshore Wind Project

Agency Meeting

May 4, 2017 1:00 - 3:00 P.M.

Holocaust and Human Rights Center of Maine at University of Maine Augusta
46 University Drive, Augusta, ME 04330

Sign-In Sheet

<u>Name</u>	<u>Organization</u>	<u>Email Address</u>
Peter Browne	HDR	peter.browne@hdrinc.com
Wende Mahaney	USFWS	wende_mahaney@Fws.gov
Jay Clement	USACE	jay.l.clement@usace.army.mil
Andy Qua	Kleinschmidt	andy.qua@kleinschmidtgroup.com
Diana Heyder	DOE	diana.heyder@ee.doe.gov
Carl Wilson	DNR	Carl.Wilson@maine.gov
Denis Nault	DNR	denis-marc.nault@maine.gov
Kate Tierney	Atty. General	katherine.tierney@maine.gov
Jeff Thaler	UMaine	Jeffrey.Thaler@maine.edu
Sue Tuxbury	NOAA	susan.tuxbury@noaa.gov
Lori Gray	DOE	lori.gray@ee.doe.gov
G. Keel Kemper	MDIFW	Keel.Kemper@maine.gov
Kristen Chamberlain	MDOT (ENR)	kristen.chamberlain@maine.gov
Nate Benoit	MDOT	nate.benoit@maine.gov
Nate Johnson	ORPC	

New England Aqua Ventus Demonstration Offshore Wind Project

Agency Meeting

May 4, 2017 1:00 - 3:00 P.M.

Holocaust and Human Rights Center of Maine at University of Maine Augusta

46 University Drive, Augusta, ME 04330

Sign-In Sheet

<u>Name</u>	<u>Organization</u>	<u>Email Address</u>
Bob Stratton	MDIFW	Robert.D.Stratton@MAINE.GOV
Mark McCollough	USFWS	mark_mccollough@fws.gov
Jim Beyer	MDEP	J.m.R.Beyer@Maine.GOV
Beth Callahan	MDEP	Beth.Callahan@maine.gov
Carol D. Bello	MDACF	Carol.d.bello@maine.gov
John NOLL	ME/DAEF	john.noll@maine.gov
Stacie Beyer	ME/LUPC	Stacie.r.beyer@maine.gov
Dawn Hallowell	MDEP	Dawn.Hallowell@maine.gov
Jake WARD	UMaine	jward@Maine.edu
Phone:		
Meredith Mendelson	MDMR	
Anthony Viselli	UMaine	
US Coast Guard (2) - Michelle DesAutels, LT David Bourbeau		
Adrienne ^{Leppold} Leopoldo	MDIFW	

New England Aqua Ventus I Demonstration Offshore Wind Project

Draft – May 4, 2017 Agency Meeting Summary

Attendee List: Attached

Purpose: Provide a brief status update for the project, and then provide a forum to discuss roles, responsibilities, timelines and information needs of regulatory agencies in the NEPA Process, and also in separate state and federal permitting efforts.

1. Project Status Overview

Jeff Thaler and Jake Ward (UMaine) provided a summary of the project history including:

- Initial US Department of Energy (DOE) funding contest
- 1/8 test deployment in Castine
- 2014 DOE down-selection resulting in design funding
- 2016 DOE selection
- Broad process considerations of community benefit of the project, location of the test site (how originally selected and why)
- General geographic locations of project components

2. Current Project Description

Peter Browne (HDR) provided a more detailed discussion of locations and component of the project including:

- Construction location in Hampden
- Assembly location in Searsport
- Temporary mooring locations near Searsport
- Unit deployment location in the test site
- Subsea cable route alternatives including Monhegan and St. George

A copy of the presentation slides is attached to this summary. As Peter walked through the Project Description slides, the meeting was then opened with questions and answers.

Sue Tuxbury (NOAA) asked for clarification about the charted cableway that is proposed for use for the subsea cable to the mainland, whether there are existing cables in place, and whether they would be removed.

UMaine explained that there is some documentation of an existing cable but there seems to be an element of uncertainty whether it is still there. It is unlikely that any old cables would be removed for the project, however UMaine will conduct an extensive survey of the cable route

this year for a variety of reasons (e.g., to support installation of the subsea cable and turbine moorings, cultural resource identification) and that information will be summarized when available.

John Noll (MDACF) noted that there is no record of a submerged lands lease for an existing cable. UMaine noted that SGC has done extensive research and if there is any prior permitting documentation they would be aware of it. ***UMaine will inquire to SGC.***

John Noll asked about a comment that fishing is prohibited in the cableway. The group discussed what regulation define those restrictions, whether it was a USCG regulation or MDMR or MDEP. Meredith Mendelson (MDMR) clarified that it is a Marine Resource statute under – **Title 12 6954.**

Wende Mahaney (USFWS) asked about the size of the subsea hub used to connect the subsea cables together. ***UMaine did not have that information readily available but this information will be provided.***

Wende also asked about the transmission line improvements that CMP will be making inland. UMaine clarified that transmission lines will need to be upgraded to accommodate 34.5 kV from the units, but this will not require and widening of the existing right-of-way, it will just be a pole-for-pole replacement.

Sue asked how much of the subsea cable will be buried vs. not buried. UMaine estimated, based on what is known today that about 60% of the cable will be buried. Best practices are that buried cable should be in 3-6 feet of mud and cable on rock should be armored. There are also guidelines that for where and how cables can be buried in harbor areas.

Carl Wilson (MDMR) how much material will be dredged at Hampden and Jay Clement (USACE) asked about disposal plans. Peter Browne responded that less than an acre in-river dredging is anticipated and it will all be disposed upland.

Bob Stratton (MDIFW) noted that material deposition information will be important given the know presence of mercury in the Penobscot River. A Natural Resources Damage Assessment may also be necessary. Sue also asked if there would be blasting in the river or just inland. UMaine responded that core sampling will be conducted this year to address those issues and others, such as cultural resource issues.

Jay Clement (USACE) asked if the cofferdam plan shown on the Project Description slide accounts for the expanded footprint that was being considered. UMaine noted that the footprint could be approximately 10% larger than shown – that need is being re-evaluated to determine if a larger area is needed as we work to finalize the description.

Mark McCollough (USFWS) asked if the cofferdam will be restored upon completion of fabrication as a temporary facility. Bob noted that he read the NEPA description as stating the cofferdam would be left in place and wondered if there might be long term uses. UMaine responded that at this time the plan is to fill in the hole and remove the barrier to the river after the approximate two (2) year fabrication and construction period. However, the area dredged in the Penobscot River adjacent to the coffer dam will not be restored.

Michelle DesAutels (USCG) asked for clarification about removal of the cable after two years and what that means for power transmission to Monhegan Island. In clarification UMaine noted that use of the Hampden site would be complete after construction (approximately two years) but the life of the demonstration project is 20 years with **DEP General Permit** renewal request needing to be submitted every 5 years during that period. It was further clarified that the Monhegan site is designated as a test site for technology indefinitely so as long as there is some energy testing in place, the cable will remain in place.

In response to questions from John about selecting the Hampden location, UMaine noted that barges and dry docks were considered but could not accommodate the necessary size for the hull construction. Several other locations were also evaluated along the coast including formerly proposed LNG facilities, as well as Cianbro's Hampden facility, but various other issues ruled them out. Jay Clement noted that it will be important to include a matrix of locations considered and reasons why they were excluded as part of the USACE permit application.

Sue and Dawn Hallowell (MDEP) asked several questions about why partial construction could not occur at Hampden and height of the assembled units. UMaine responded that the units will be 328 feet from the waterline to the hub of the nacelle and the draft of the platform bases alone would be 12-18 feet causing issues with floating them down the river and under the Penobscot Bay Bridge. Upon deployment the hulls will be ballasted to 66 feet below the waterline and the top of the blades will be approximately 576 feet above the waterline. The rotor diameter is 495 feet.

Bob asked if a decision had been made on 6 MW or 8 MW units. UMaine clarified that 6 MW units will be used, the same GE units as Block Island.

Kate Tierney (MAG Representative) asked why the base/platforms are not to be constructed in one piece. UMaine responded that it is mainly due to design issues associated with ballast and flotation.

Dennis Nault (MDMR) asked if the project would be connected to the "Green Line" and how far apart they are. UMaine explained that the projects are unrelated and do not have existing compatible technologies. The Green Line will be HVDC (the power from AV will be AC), located about 20 miles from the Monhegan test site, and is on a different timeline.

Wende asked if drag anchors will be used during assembly. UMaine explained that the units will be temporarily anchored prior to towing to the Test Site but not with drag anchors, just temporary moorings. The on-site anchors will consist of 3 or 4 chain mooring lines with drag anchors. It was later noted in a response to a question from Sue about anchor sweep that mooring chains links will be approximately 5 inches by 3 feet. There will be a catenary load but movement should be limited but an analysis is being developed to identify the "watch circle". The units must stay within the boundary of the test site so measures to minimize drift movements will be important. It was also noted that this project is not a stepping stone to a commercial facility at the test site. UMaine will not license the technology for any proposed commercial facilities any closer than 10 miles from any State shoreline [including islands].

Bob asked about lighting being triggered by airlines and potentially water vessels. UMaine responded that right now it is anticipated that a similar arrangement of lighting for the Nacelle and platform as Block Island will be used but that will be determined with USCG and FAA, but the team is open to alternatives.

John asked about the extent and timing of MDOT's pier expansion in Searsport and whether they would occur regardless of the project. Nate Benoit (MDOT) explained that a new platform will be installed and will be permanently secured to the ocean floor with piles. There will be no dredging.

Carl asked about the appearance of the Static Reactive Conditioning System, noting it would look like a small substation. UMaine noted it will be an 80 foot square fenced area with steel containers and transformers. It will be located well inland of the cable landfall in Port Clyde.

Sue asked what monitoring studies are planned. UMaine responded that a significant number of pre-deployment studies were conducted and reported earlier in the process. Post monitoring studies are also included in the Fish and Wildlife Monitoring Plan that is required through the MDEP General Permit process and will be distributed to agencies for review prior to filing the

application with MDEP. Bob suggested that prior to sending out the monitoring plan for formal review, that the UMaine Team arrange for some one-on-one discussions as there is a lot of information to be learned from other projects, including onshore wind, and there may be opportunities to streamline some of the monitoring. UMaine agreed, noting that one of the primary objectives of the AV project is to learn from new technology and understand the needs to adapt and, as appropriate, mitigate. UMaine wants to be proactive working with agencies and learning from other projects like Block Island.

John noted that Searsport will need a submerged lands lease for the DOT expansion.

Stacie Beyer (LUPC) noted that a permit may be needed for the Monhegan power cable. She also noted that LUPC has several zoning districts with different allowed and special uses that may need to be assessed.

Mark noted that there is an eagle nest near the Hampden site that should be discussed further with USFWS.

3. Regulatory Process Roundtable

Andy Qua (Kleinschmidt) provided an overview of the federal, state and local permits that will be required for the project as well as the various consultations required by state and federal regulations.

Diana Heyder and Lori Gray of DOE provided a presentation about the NEPA process associated with the project including a summary of:

- The Energy Efficiency and Renewable Energy (EERE) program and projects
- The scoping process and summary of stakeholder comments received
- Federal and state agency consultation processes
- USACE as a cooperating agency
- NEPA does include a socioeconomic component including effects on fishing, tourism, and residents.

Jay provided additional detail from USACE's perspective including:

- USACE will work as a partner with DOE but will need to conduct its own NEPA evaluation.
- There will be similar milestones between USACE and DOE processes
- USACE plans to time public comment request on NEPA documents with those for DOE's process

- If an issue needs to be assessed by USACE that is not part of DOE's assessment, USACE will provide their own supplemental assessment
- USACE may need to evaluate the overall project under an Individual Permit rather than a General Permit due to the complexity and geographic aspects of the project.

Michelle noted that USCG also requires an assessment of navigation safety and will work with the UMaine Team to address their needs.

Jim Beyer (MDEP) noted that the agency is assessing how to evaluate the project and various components. Dawn stated that UMaine and MDEP will meet separately to discuss what components may fall under the General Permit vs. separate permit processes.

4. Next Steps

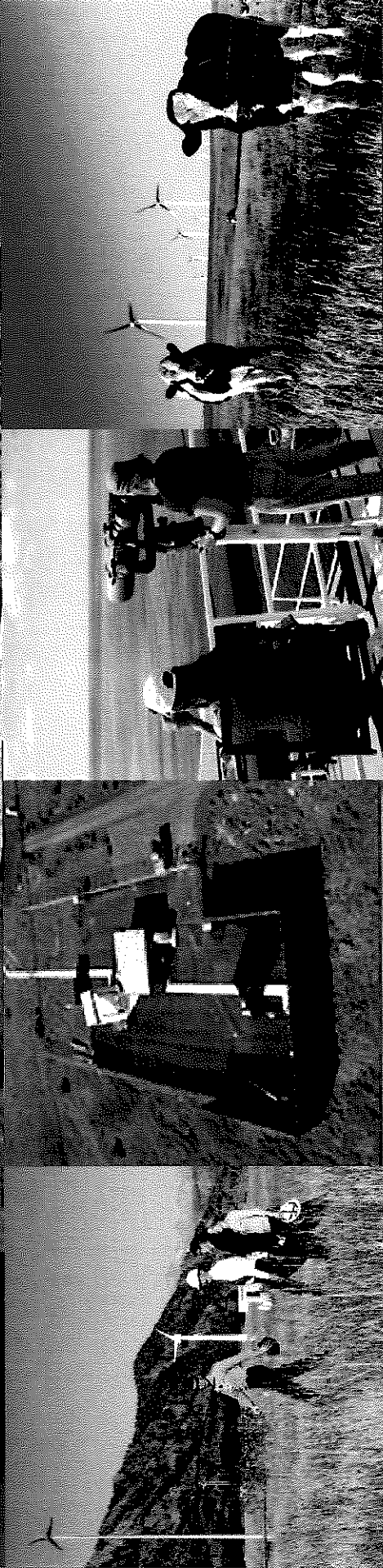
Discuss need and timing of subsequent meetings

- The group discussed that the process schedule is being refined but overall is anticipated to take approximately 18 months to conduct the NEPA process, including scoping.
- UMaine anticipates the next agency meeting/project update will be in July or August.

Distribute meeting summary and list of process requirements and timelines

- UMaine will distribute a meeting summary, attendee list and slides from the meeting.

** If any questions, please contact Andy Qua (Kleinschmidt) at Andy.Qua@kleinschmidtgroup.com or Jeff Thaler (UMaine) at Jeffrey.Thaler@maine.edu



**Environment, Safety & Health Office –
National Environmental Policy Act (NEPA)
Division**

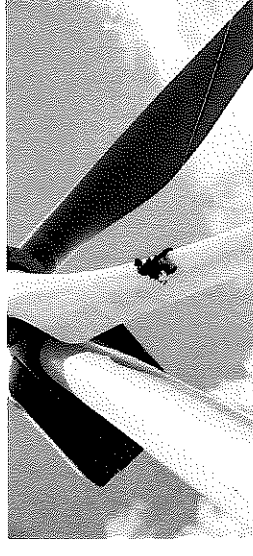
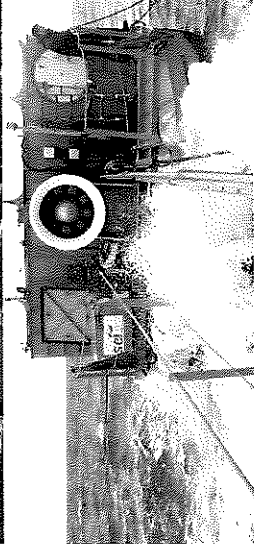
05/04/2017

Lori Gray
NEPA Director, Golden Field Office












Diana Heyder
NEPA Specialist, Golden Field Office

Office of Energy Efficiency and Renewable Energy (EERE)

- EERE – 1 of 10 U.S. Department of Energy (DOE) Program Offices
- Research, development, demonstration, and deployment activities in partnership with industry to advance a diverse portfolio of energy efficiency and clean power technologies that will decrease our nation's energy dependence and accelerate development of clean electricity supply options.
 - Competitive Financial Assistance Awards, Inter-agency Agreements, Prize Competitions, etc.
- ~ \$1.9-\$2 billion (FY2015 & FY2016)



EERE – Technology and Program Offices

Renewable Power		Energy-Saving Homes, Buildings, & Manufacturing		Sustainable Transportation	
 Solar	 Homes	 Vehicles			
 Geothermal	 Buildings	 Bioenergy			
 Wind	 Advanced Manufacturing	 Hydrogen/Fuel Cells			
 Water	 Government Energy				

EERE's National Environmental Policy Act (NEPA) Division

- Based in Golden, CO at the DOE Golden Field Office
- Conducts NEPA reviews and related environmental processes for financial assistance awards, interagency agreements, prize competitions, etc.

Offshore Wind Funding Opportunity Announcement (FOA) Goals

U.S. DEPARTMENT OF
ENERGY

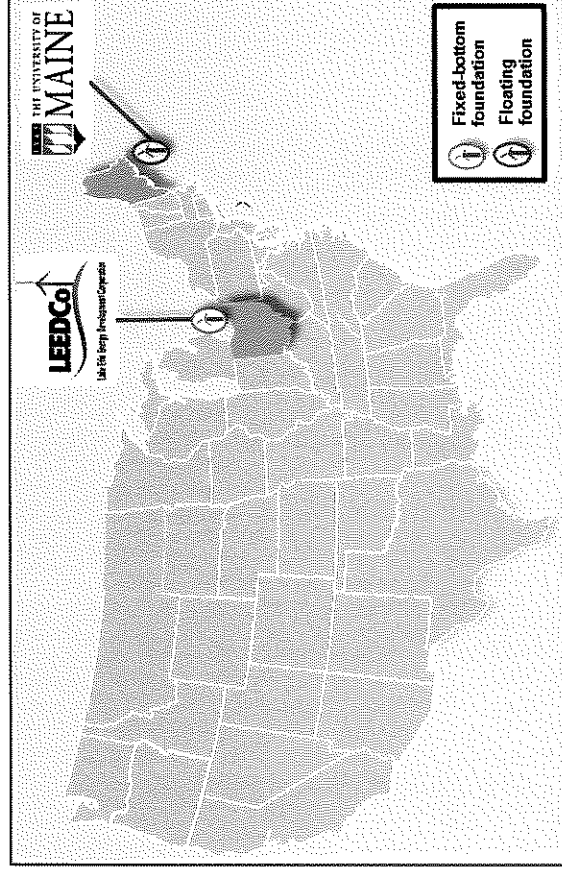
Energy Efficiency &
Renewable Energy

Technology Goals:

- Install innovative offshore wind systems in U.S. waters, rapidly and responsibly
- Drive down the cost of offshore wind with demonstration project innovations

Permitting and Siting Goals:

- Evaluating current siting and approval processes and identifying opportunities for improvement
- Advance the regulatory frameworks vital to implementing offshore wind in the U.S.
- Address public concerns associated with the concept of offshore wind



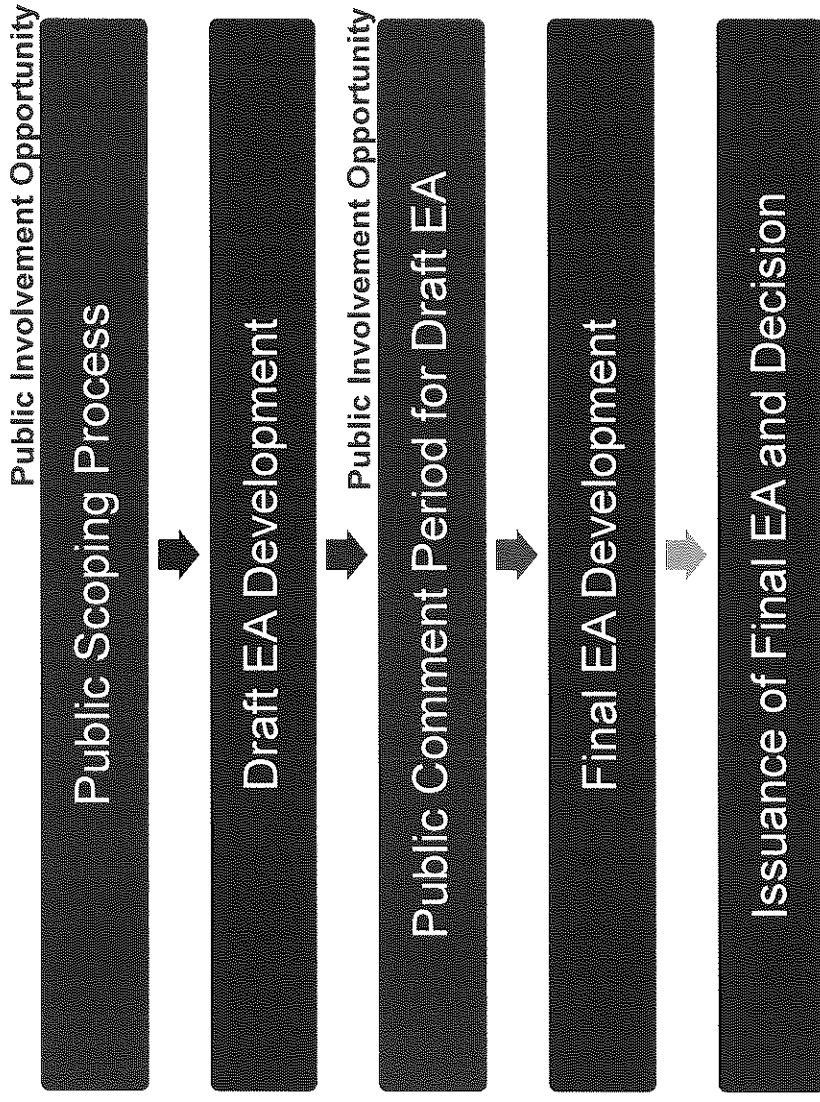
DOE's Proposed Action

- DOE is proposing to provide the University of Maine funding to support the development of the New England Aqua Ventus I project (proposed project).
 - Development actions include design, construction and commissioning of the proposed project; environmental monitoring; and up to five years of post-construction structural and performance monitoring data collection.
 - Operation, maintenance and eventual decommissioning of the proposed project will also be analyzed in the EA since they are connected actions.

Alternatives

- Power and fiber optic cable to Monhegan Island
- No Action Alternative

Key Steps in the DOE National Environmental Policy Act (NEPA) Process



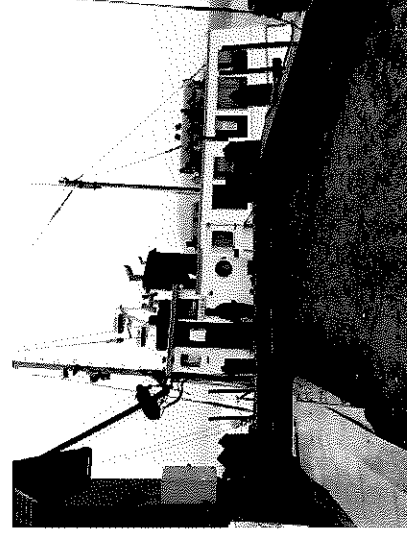
NEPA documentation and status updates posted for public review on DOE website:

www.energy.gov/node/2053718

DOE NEPA Scoping Process

Public Scoping Informational Meetings:

- 2/28/2017 – Two public meetings in Tenants Harbor, ME
- 3/1/2017 – One public meeting in Monhegan Island, ME included remote participation
- 113 comment letters received

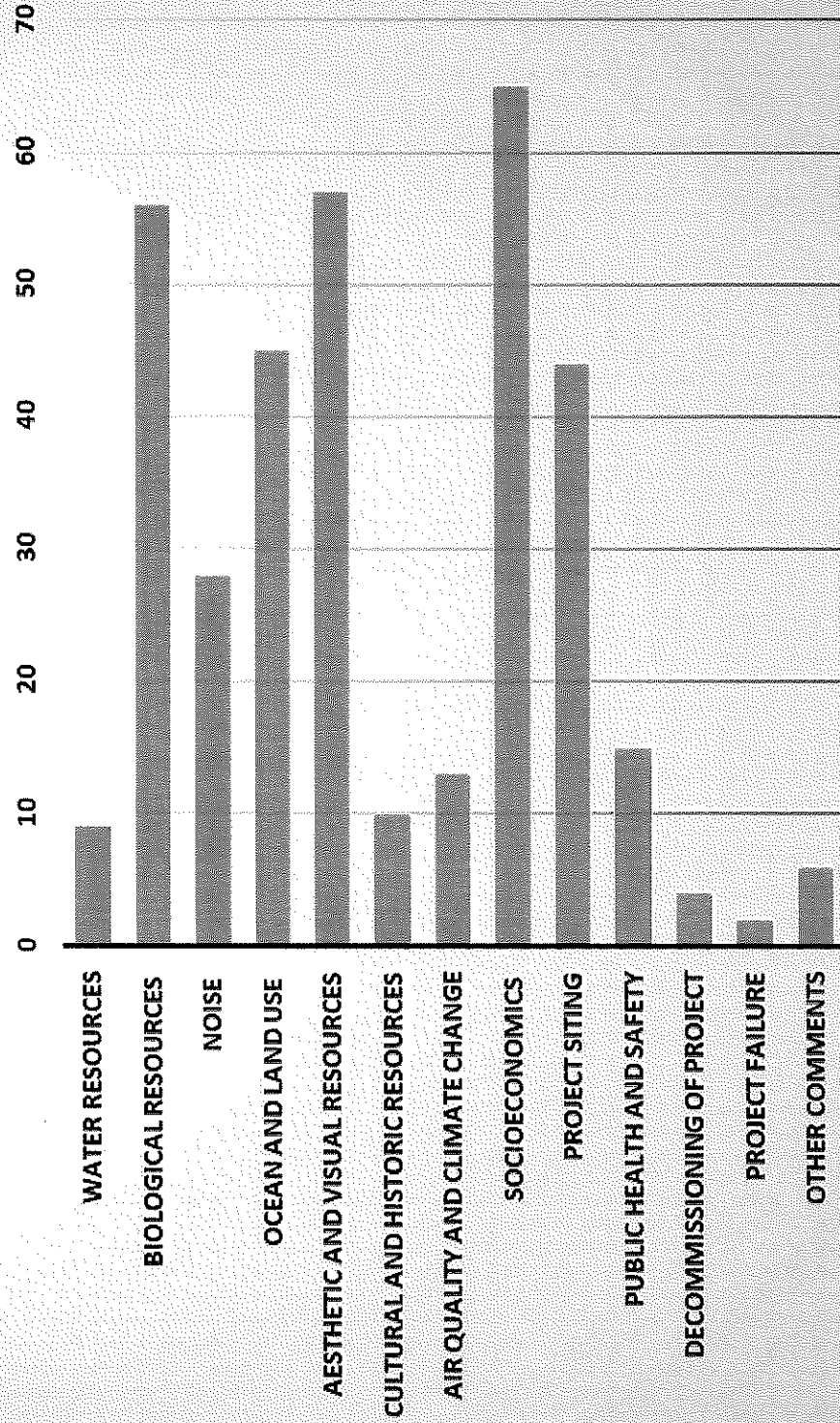


DOE NEPA Scoping Process

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

Summary of Scoping Comments Received by Topic Area



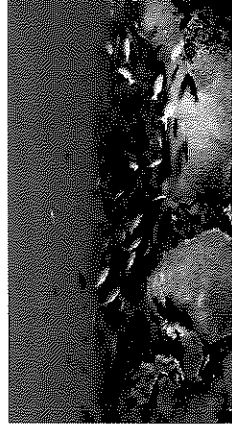
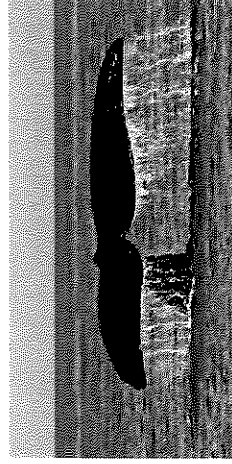
Coordination of Federal/State Agency Processes

- Permitting and NEPA requirements
 - ✓ Detailed Project Description
- Joint Consultations where possible (i.e. Endangered Species Act, National Historic Preservation Act)
 - ✓ Identification of Consulting Parties
 - ✓ Development of Consultation Information

Development of Draft EA

- Identification of Cooperating Agencies and Reviewing Agencies
- Completion of Required Consultations

Public Comment Period for Draft EA



Thank you.

Lori Gray
NEPA Division Director
240.562.1568
Lori.Gray@ee.doe.gov

Diana Heyder
NEPA Specialist
240.562.1574
Diana.Heyder@ee.doe.gov

**NEPA Status and Updates for New England
Aqua Ventus I**
www.energy.gov/node/2053718

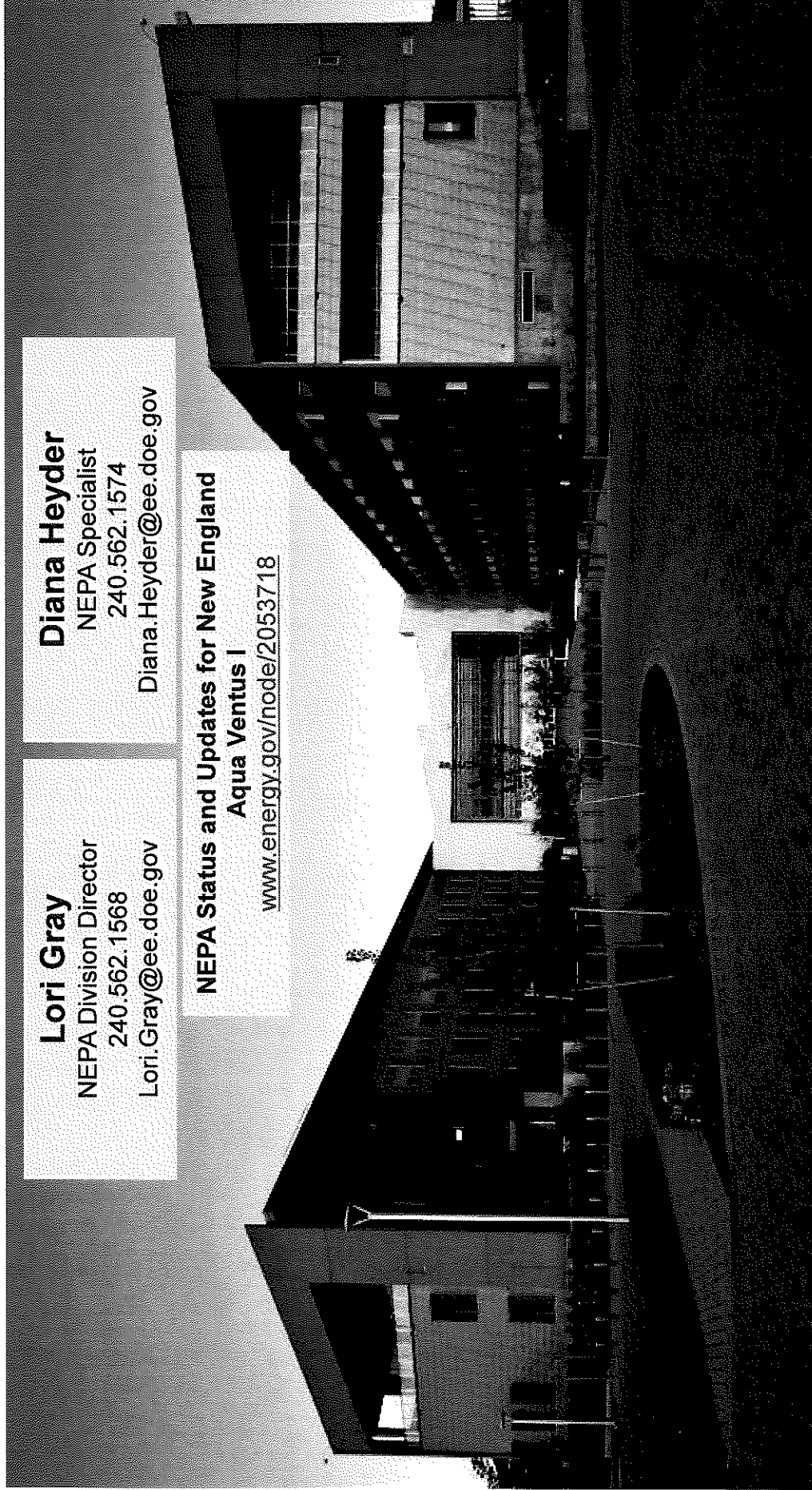
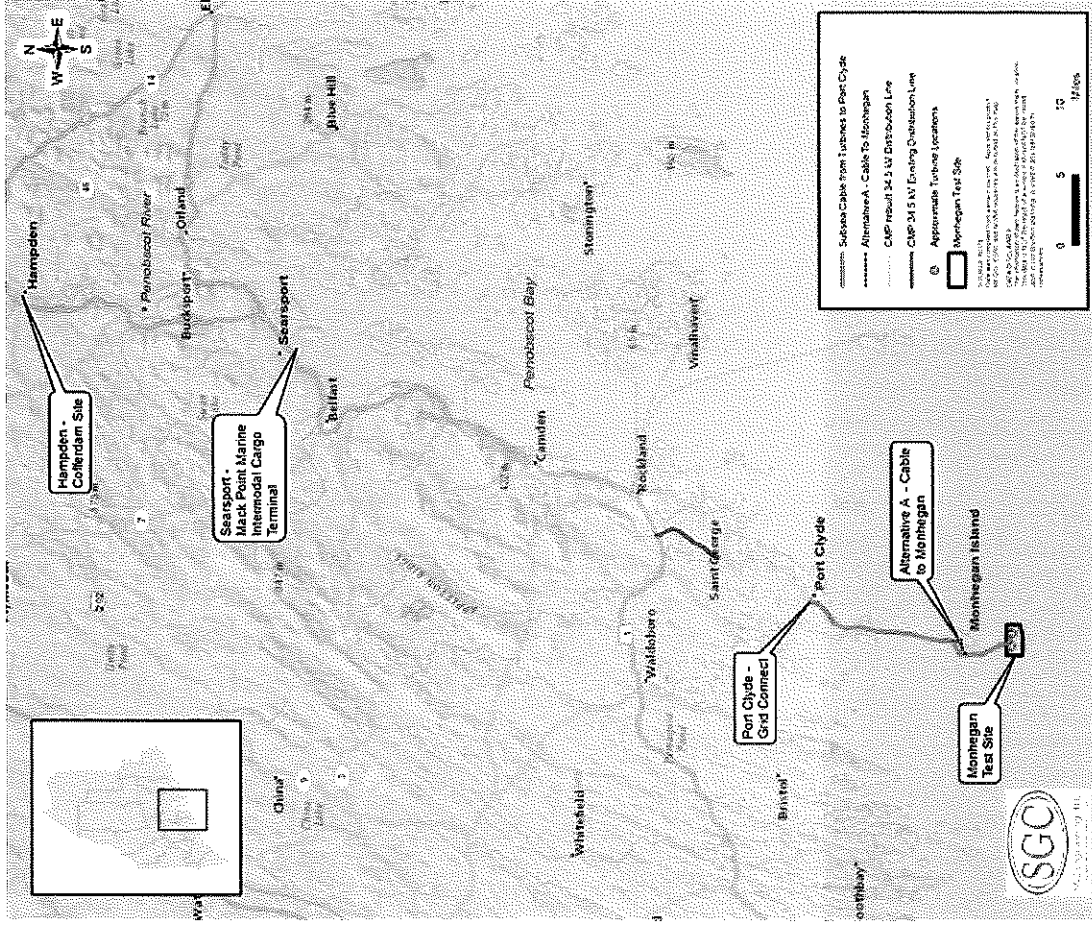


Photo Credits: Dennis Schroeder, Warren Gretz, Brent Nelson, Jennifer Josey, Sheila Hayter, Jennifer Southerland, & Lee Jay Fingersh

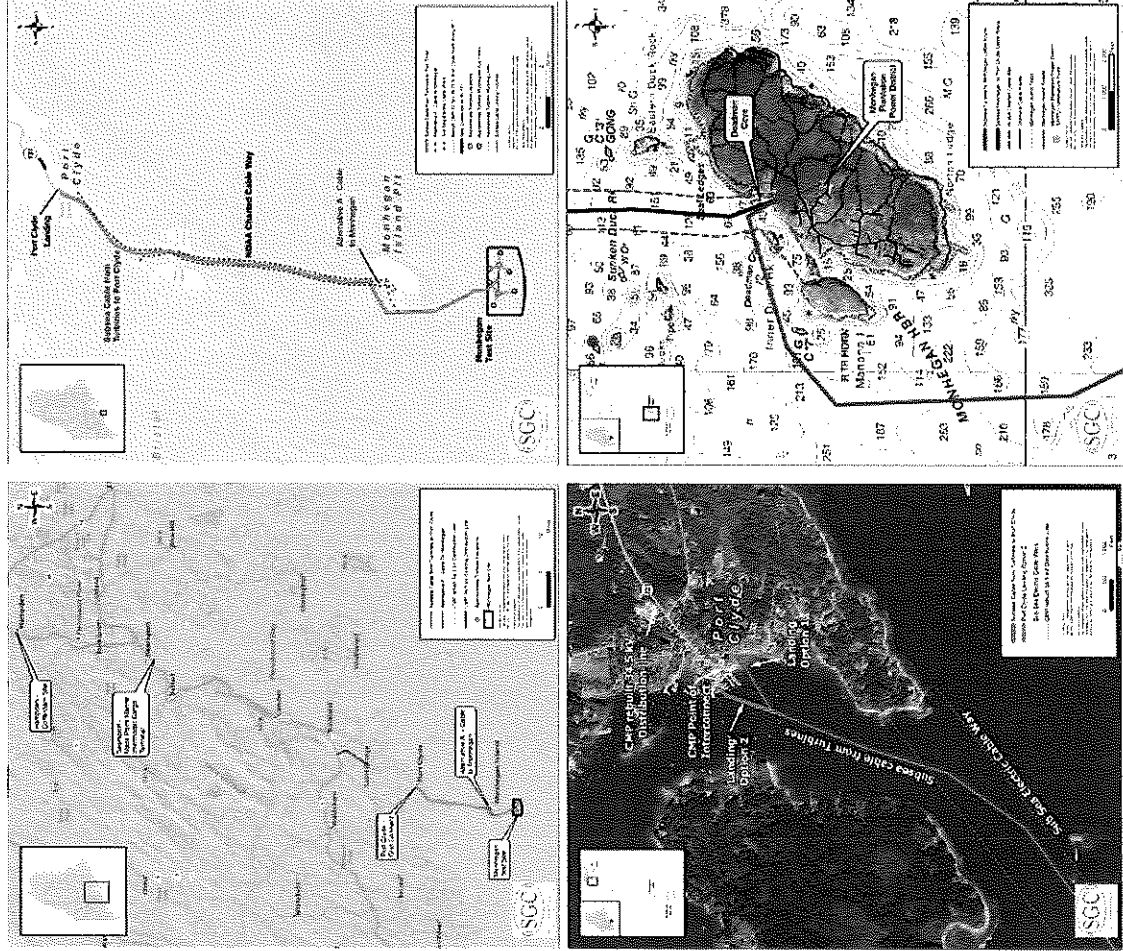
Project Description

Demonstration-scale offshore wind facility located ~2.5 miles south of Monhegan Island, Maine and ~12 miles off the mainland

- One of the first offshore wind projects in the United States.
- Two 6.0 MW wind turbines on floating concrete foundations.
- Interconnection to an existing Central Maine Power distribution line located in Port Clyde.
- Alternative A: Additional interconnection to Monhegan Plantation Power District on Monhegan Island.

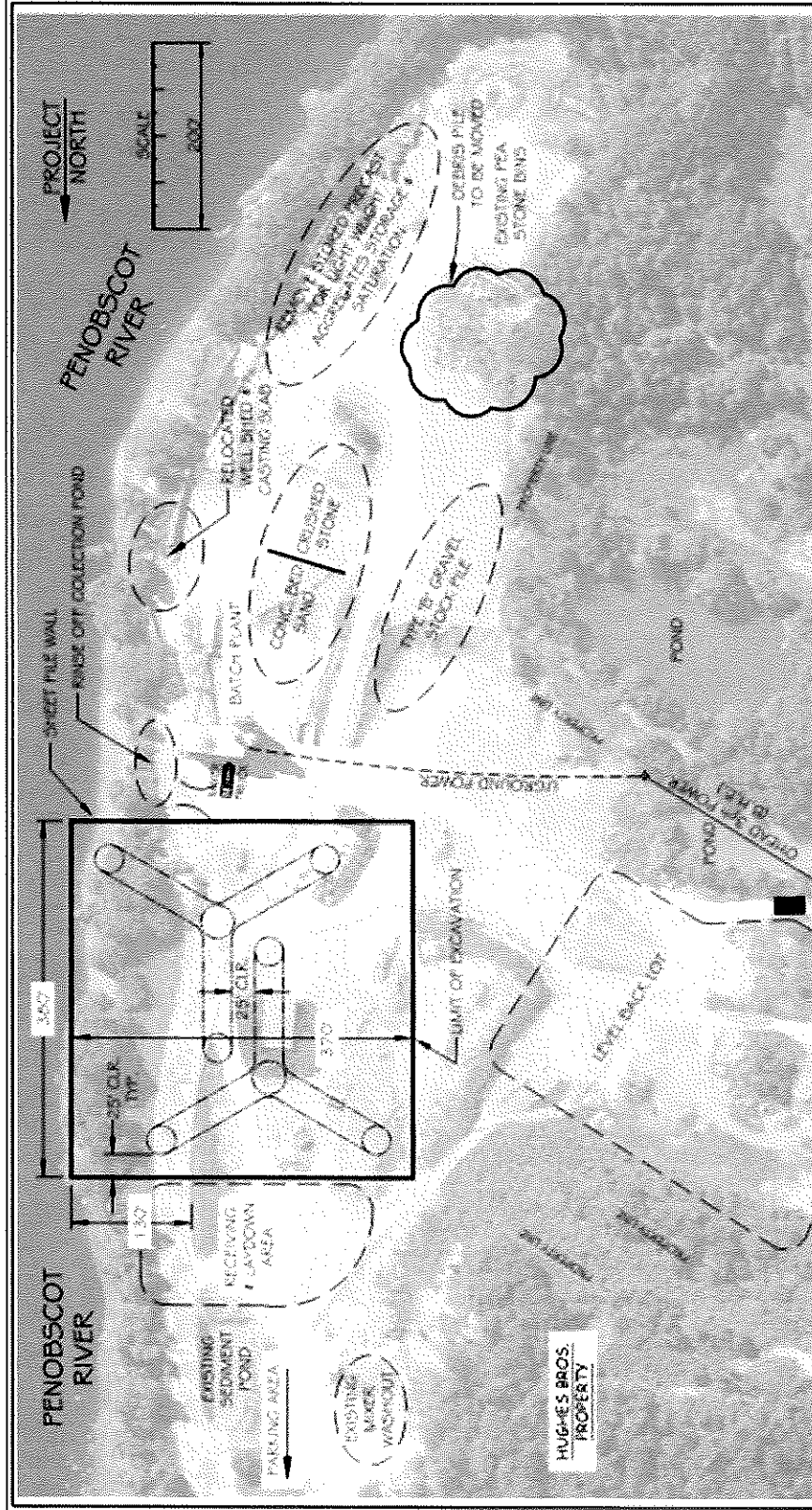


Project Description



Project Description

Turbine Assembly and Installation



"HUGHES SITE" PLAN for CASTING BASE & PRECAST OPERATIONS

Cofferdam area may be about 10% larger than shown.

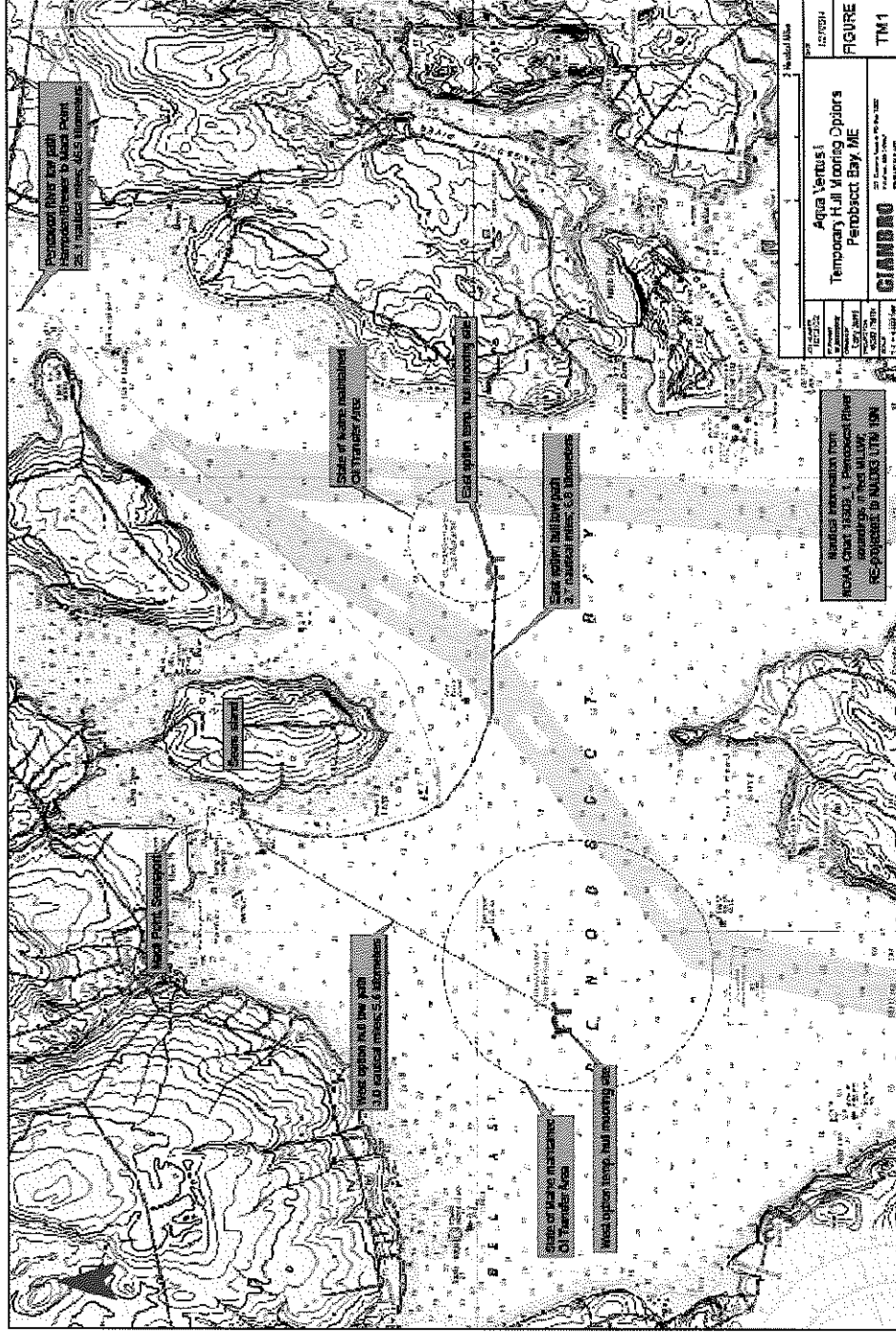
CIAMBRO
THE CONSTRUCTORS

Hammond Square
PENOBSCOT MAINE 04947
207-467-5381

VOLTURNUS

PROJECT NO. 2004-001-001-001-001-001
DATE: 10/11/04
SCALE: 1" = 100'
DRAWN BY: J. THALER
CHECKED BY: J. THALER
APPROVED BY: J. THALER

Project Description



This map shows the Penobscot River tow path from Hampden, ME, to Mack Point in Searsport, ME, as well as two options identified as temporary hull mooring locations while construction is completed.

Jeff Thaler, thaler@maine.edu

umaine.edu/offshorewindtestsite

Turbine Assembly and Installation

Floating foundations would be constructed in a cofferdam along Penobscot River in Hampden, Maine.

- Cofferdam excavation and construction ~5 months.
- Foundations would take ~1 year to complete.

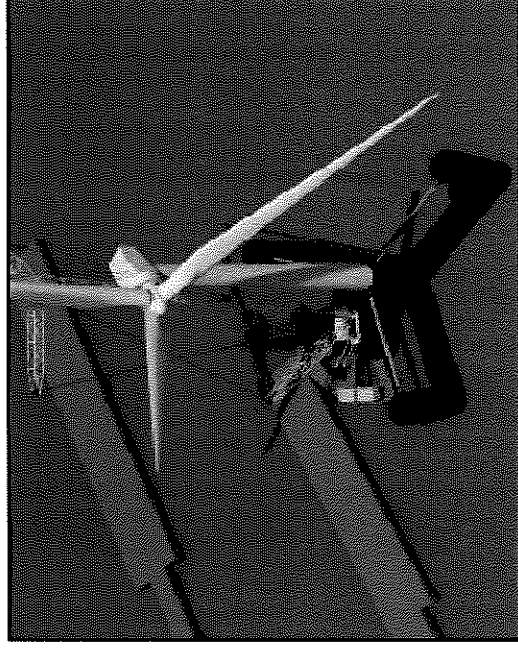
Foundations would be towed to Mack Point Intermodal Cargo Terminal in Searsport for turbine assembly and installation.

Complete structure would be towed to the Monhegan Test Site for commissioning.

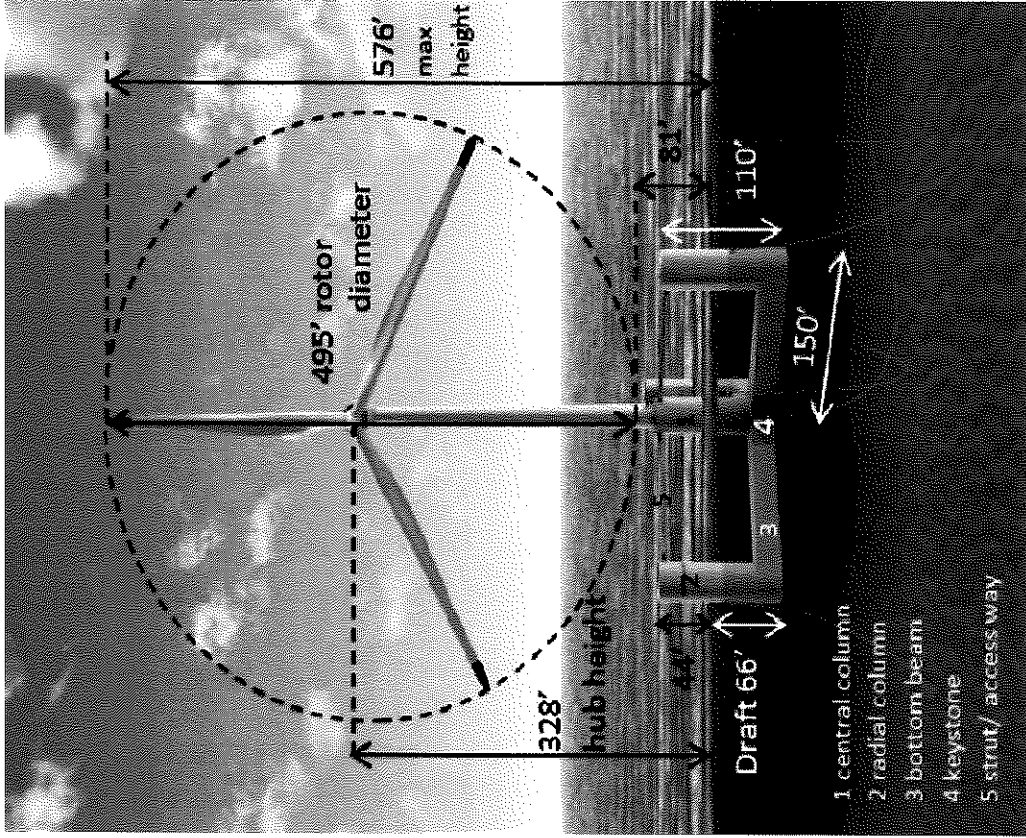
Duration of Project:

- Turbine and foundation performance data would be collected for up to five years.
- Operate for ~20 years

Project Description



Turbines and Foundations



Project Description

Turbines:

- Turbine Hub Height: ~328 feet above waterline
- Maximum Blade Height: ~576 feet above waterline
- Rotor diameter: ~495 feet
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Cable Landing Locations

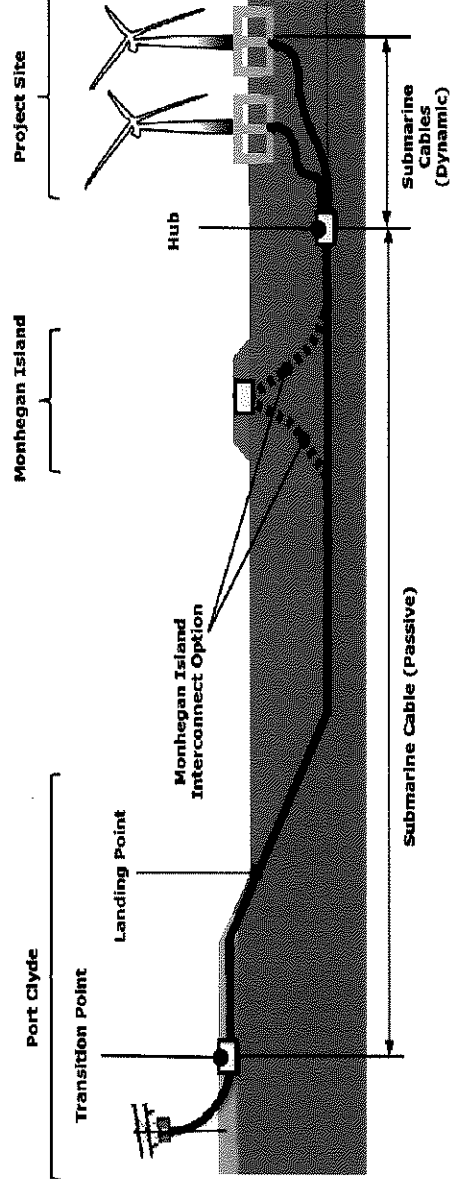
Port Clyde, Maine

- Export cable would interconnect with existing Central Maine Power (CMP) distribution line.
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- CMP plans to rebuild ~8.8 miles of distribution line between Port Clyde and Rockland substation.

Monhegan Island, Maine (Alternative A)

- Landfall Point - Deadman's Cove or nearby location to connect to a transformer.
- Cable would run from transformer underground or overhead on a rebuilt pole line for ~680 feet to Black Head Road.
- From Black Head Road cable would run underground for ~650 feet and terminate at the Monhegan Plantation Power District generator/switchgear.

Project Description



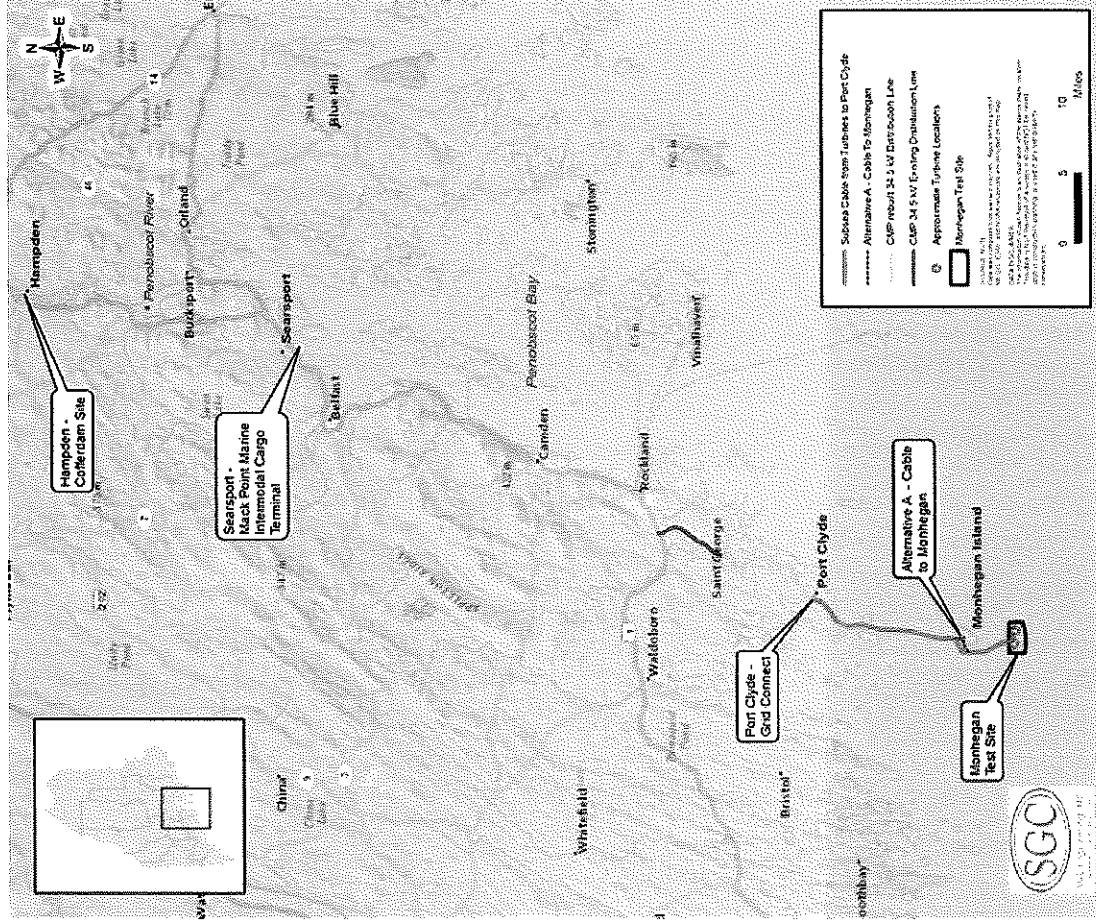
Action(s)	Level	Agency	Permit/Approval
Location: Entire Project			
Entire project	Federal	U.S. Dept. of Energy	NEPA process
		U.S. Army Corps of Engineers	River and Harbors Act, Section 10 Permit; Clean Water Act Section 404 Permit
		National Marine Fisheries Service (NMFS), U.S. Fish and Wildlife Service (USFWS)	Endangered Species Act, Section 7 consultation
		NMFS and USFWS	Fish and Wildlife Coordination Act consultation
		NMFS	Magnuson-Stevens Fishery Conservation and Management Act, Essential Fish Habitat consultation
		NMFS	Marine Mammal Protection Act consultation
		Federal Aviation Administration	Circular I-864 permit
		U.S. Coast Guard	Ports and Waterways Safety Act consultation; Private Aids to Navigation
		Maine Historic Preservation Commission	Section 106 consultation Natural Historic Preservation Act
		Location: Offshore Project to Grid Connect	
Offshore project to grid connect	State	Maine Department of Environmental Protection (DEP)	General Permit (38 M.R.S.A. §480-HH)
		Maine Department of Agriculture, Conservation, and Forestry – Maine Coastal Program	Coastal Zone Management Act, Section 307(c)(3) consultation (part of DEP permit process)
Location: Hampden Cofferdam			
Construction of cofferdam; dredging of Penobscot River adjacent to cofferdam	State	DEP	Natural Resources Protection Act permit (38 M.R.S.A. §480)
		DEP	Site Location of Development Act (SLODA) permit (38 M.R.S.A. §§ 481-490)
		DEP	Stormwater Permit by Rule (38 M.R.S.A. §420-D) permit
		Maine Submerged Lands Program (Maine Department of Agriculture, Conservation and Forestry - Division of Parks and Public Lands)	Submerged lands lease (12 M.R.S.A. §1862) - Dredging of Penobscot River adjacent to cofferdam
		Town of Hampden	Municipal shoreland zoning ordinance review
Local	Town of Hampden	Municipal land development permits	

Action(s)	Level	Agency	Permit/Approval
Location: Searsport			
Complete construction of turbines; platforms moored to existing cargo terminal; no permanent pier modifications needed; temporary mooring at one or two state owned oil transfer areas	Local	NA	None required
Following assembly, temporary mooring at one of the two designated state maintained oil transport areas south of Sears Island	Local	Town of Searsport	Harbormaster permit - for temporary construction mooring
Location: Port Clyde/St. George			
Connection to CMP distribution line	State	Maine Department of Transportation	Utility Location Permit
Transmission line landfall		DEP	Natural Resources Protection Act permit (38 M.R.S.A. §480)
Landfall; connection to CMP distribution line	Local	Town of St. George	Municipal shoreland zoning ordinance review
Landfall; connection to CMP distribution line		Town of St. George	Municipal land development permits

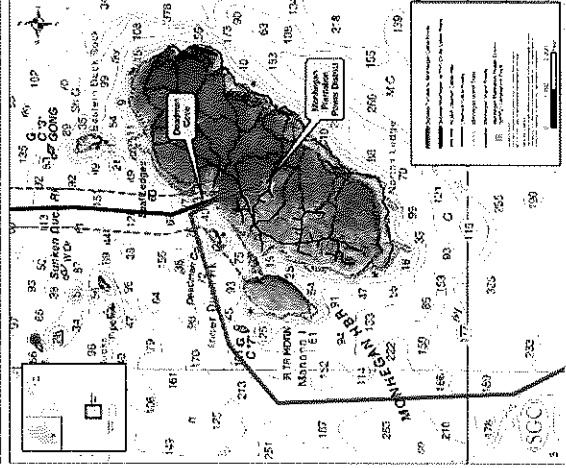
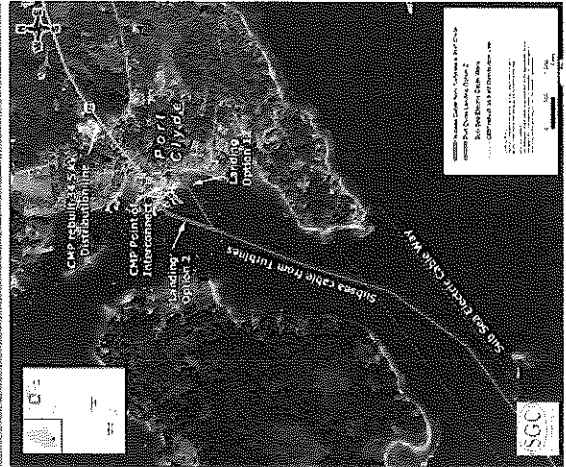
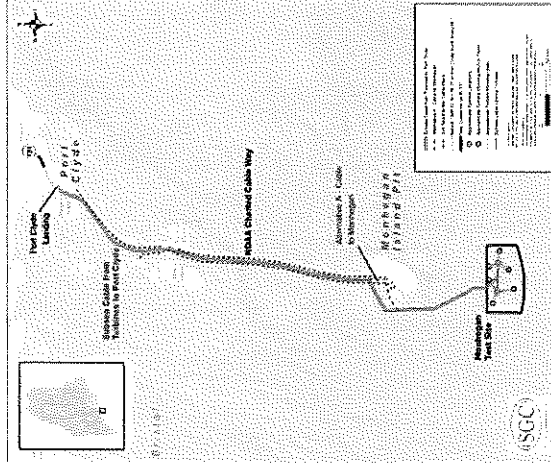
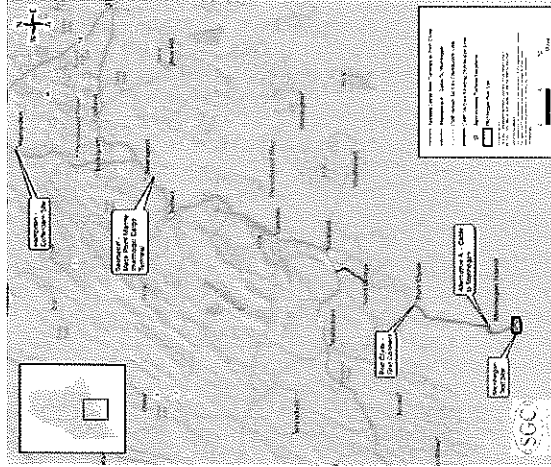
Project Description

Demonstration-scale offshore wind facility located ~2.5 miles south of Monhegan Island, Maine and ~12 miles off the mainland

- One of the first offshore wind projects in the United States.
- Two 6.0 MW wind turbines on floating concrete foundations.
- Interconnection to an existing Central Maine Power distribution line located in Port Clyde.
- Alternative A: Additional interconnection to Monhegan Plantation Power District on Monhegan Island.

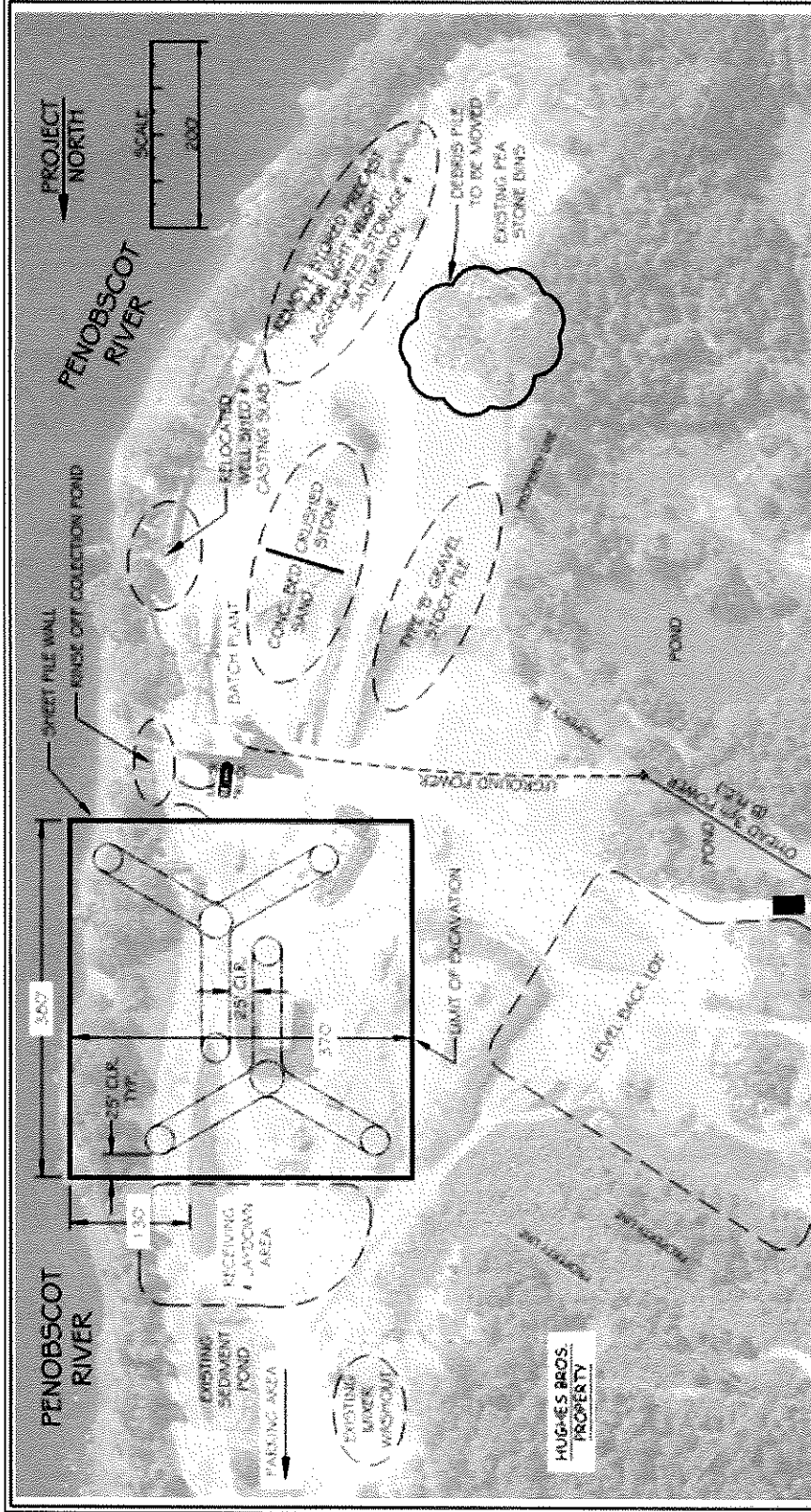


Project Description



Project Description

Turbine Assembly and Installation

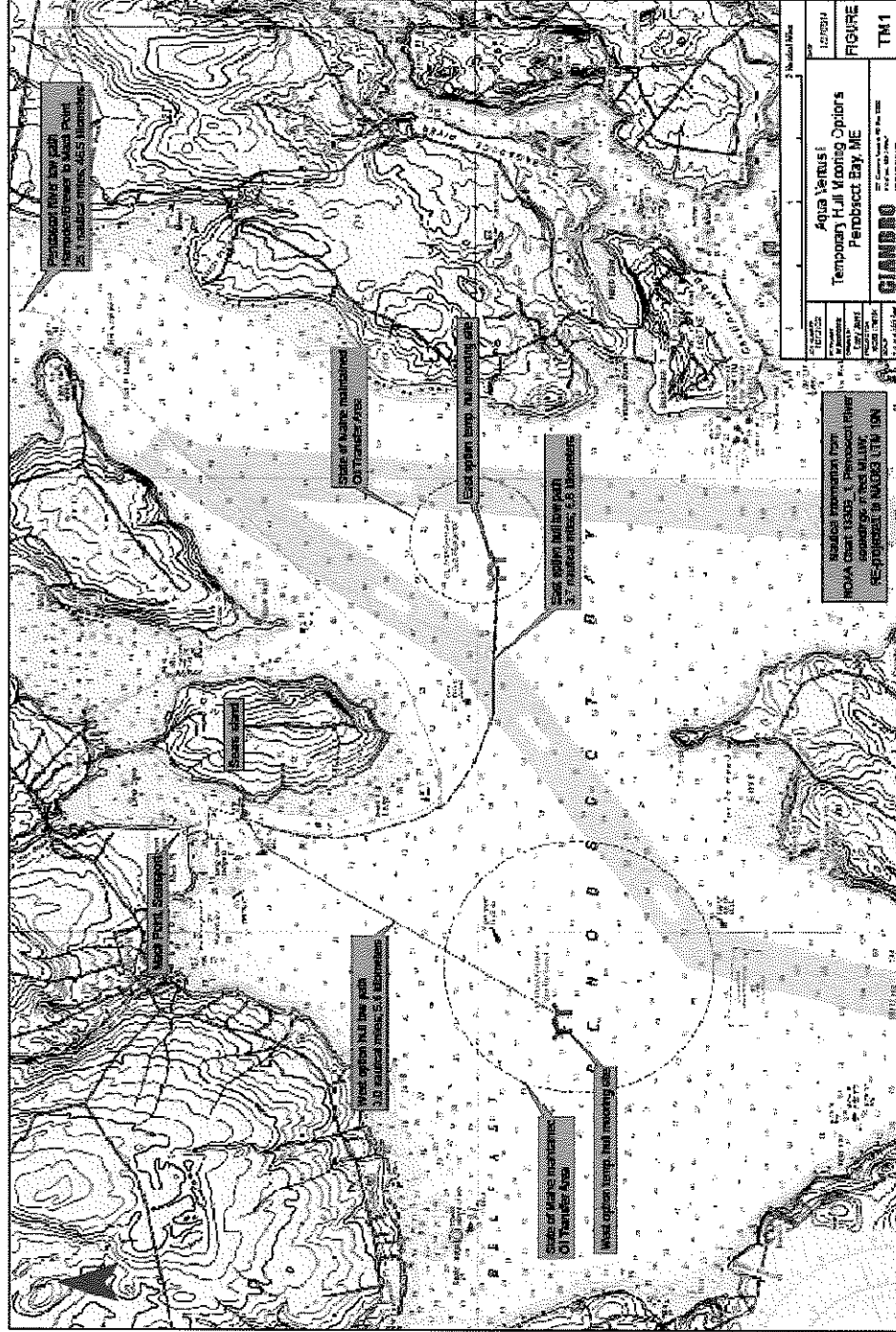


GIAMBRO THE CONSTRUCTORS
 145 W. BROAD ST.
 PORTLAND, ME 04101
 TEL: 603.761.1111
 FAX: 603.761.1112
 WWW.GIAMBRO.COM

"HUGHES SITE" PLAN for CASTING BASE & PRECAST OPERATIONS
 SCALE: 1" = 200'

Cofferdam area may be about 10% larger than shown.

Project Description



This map shows the Penobscot River tow path from Hampden, ME, to Mack Point in Searsport, ME, as well as two options identified as temporary hull mooring locations while construction is completed.

Jeff Thaler, thaler@maine.edu

umaine.edu/offshorewindtestsite

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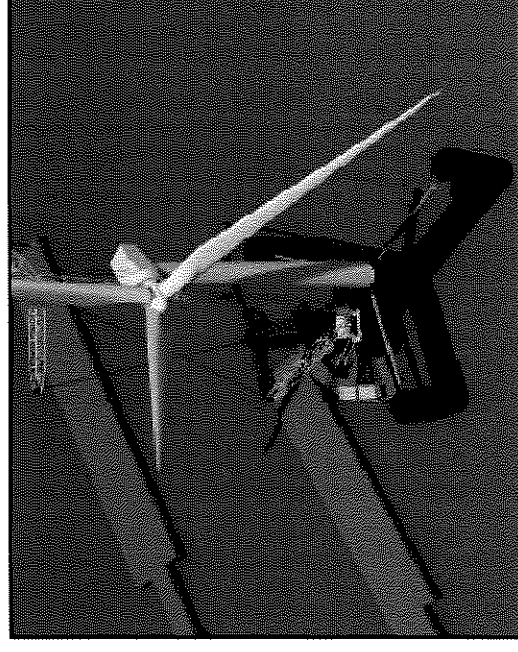
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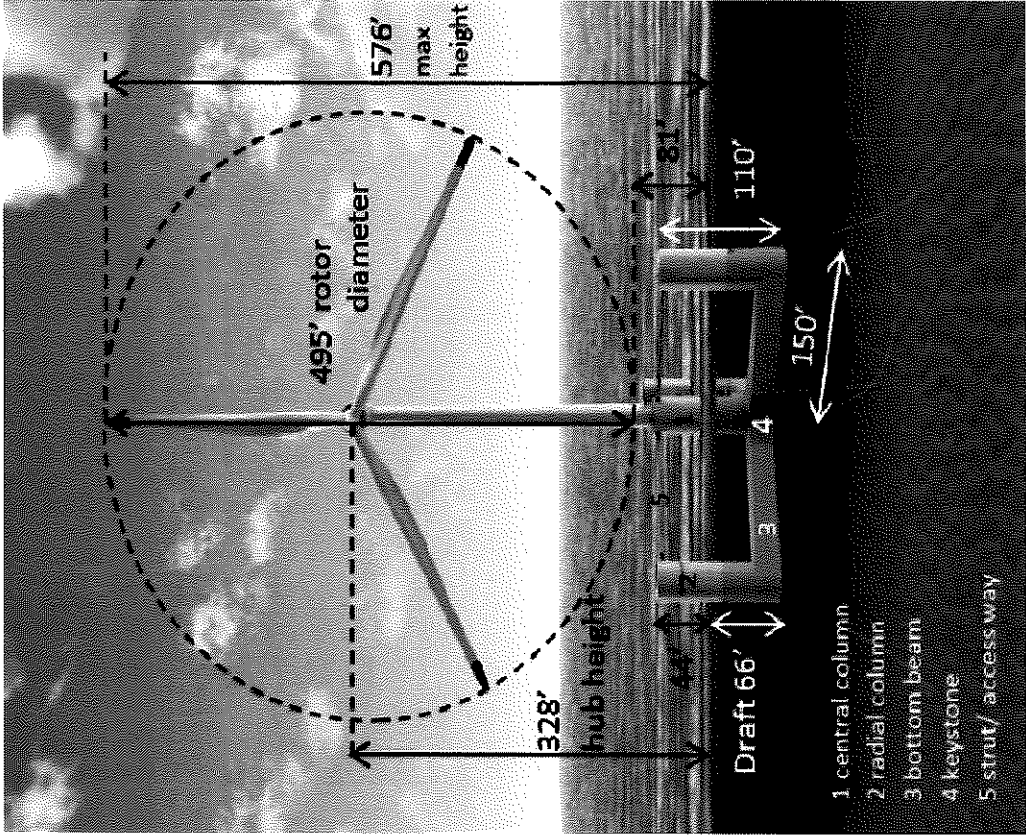
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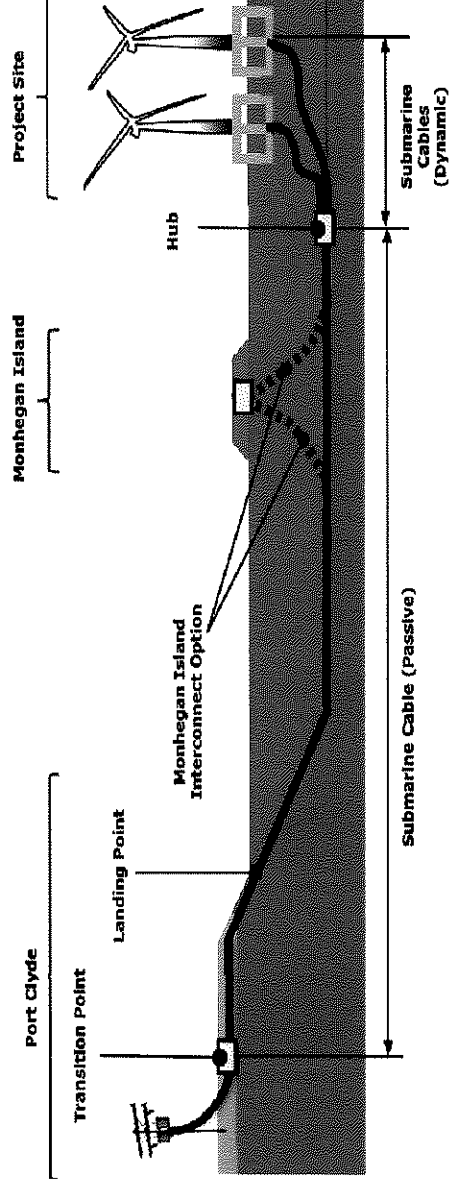
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Action(s)	Level	Agency	Permit/Approval
Location: Entire Project			
Entire project	Federal	U.S. Dept. of Energy	NEPA process
		U.S. Army Corps of Engineers	River and Harbors Act, Section 10 Permit; Clean Water Act Section 404 Permit
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Action(s)	Level	Agency	Permit/Approval
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REGISTRATION



[CLICK HERE TO REGISTER](#)

THE REGISTRATION PRICE STRUCTURE IS AS FOLLOWS:

	STUDENT	NON-STUDENT
REGULAR	\$300	\$600

TOTAL REGISTRATION WILL BE LIMITED TO 600 PARTICIPANTS. REGISTRATION FEES INCLUDE ACCESS TO THE FIVE-DAY EVENT'S PLENARY SESSIONS, KEYNOTE SPEAKERS, TECHNICAL SESSION BREAKOUTS, REFRESHMENTS, NETWORKING OPPORTUNITIES AND MUCH MORE.

EARLY REGISTRATION

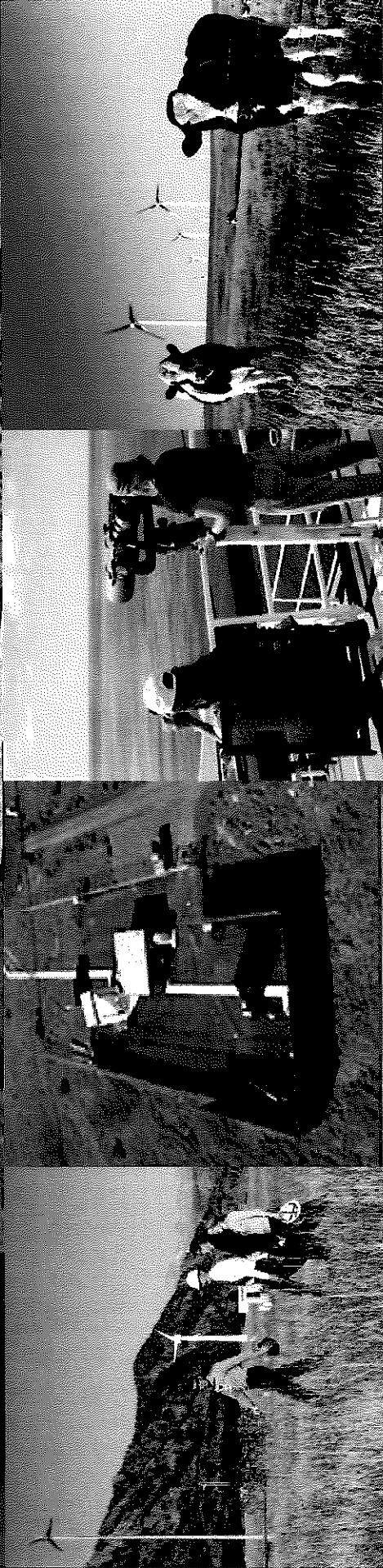
Due to the popularity of the 6IMDC, all available early registration spots have been filled. General registration is still available, so please register as soon as possible to secure your spot at the event

STUDENT REGISTRATION

Early student registration fees will be limited, please register as early as possible to secure student registration fees. Interested attendees seeking student registration fees must provide documentation of attendance at an academic institution. Minors must be accompanied by a legal guardian.

TRAVEL AWARDS

The call for travel award applications is now closed. The United Nations Environment will be overseeing the travel award application collection and distribution process. Applicants will receive notification on Monday, November 20, 2017.



**Environment, Safety & Health Office –
National Environmental Policy Act (NEPA)
Division**

05/04/2017

Lori Gray

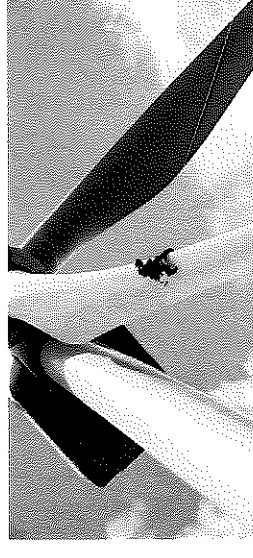
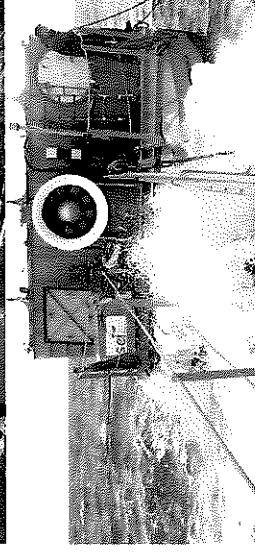
NEPA Director, Golden Field Office

Diana Heyder












NEPA Specialist, Golden Field Office

Office of Energy Efficiency and Renewable Energy (EERE)

- EERE – 1 of 10 U.S. Department of Energy (DOE) Program Offices
- Research, development, demonstration, and deployment activities in partnership with industry to advance a diverse portfolio of energy efficiency and clean power technologies that will decrease our nation's energy dependence and accelerate development of clean electricity supply options.
 - Competitive Financial Assistance Awards, Inter-agency Agreements, Prize Competitions, etc.
- ~ \$1.9-\$2 billion (FY2015 & FY2016)



EERE – Technology and Program Offices

Renewable Power	Energy-Saving Homes, Buildings, & Manufacturing	Sustainable Transportation
 Solar	 Homes	 Vehicles
 Geothermal	 Buildings	 Bioenergy
 Wind	 Advanced Manufacturing	 Hydrogen/Fuel Cells
 Water	 Government Energy	

EERE’s National Environmental Policy Act (NEPA) Division

- Based in Golden, CO at the DOE Golden Field Office
- Conducts NEPA reviews and related environmental processes for financial assistance awards, interagency agreements, prize competitions, etc.

Offshore Wind Funding Opportunity Announcement (FOA) Goals

U.S. DEPARTMENT OF
ENERGY

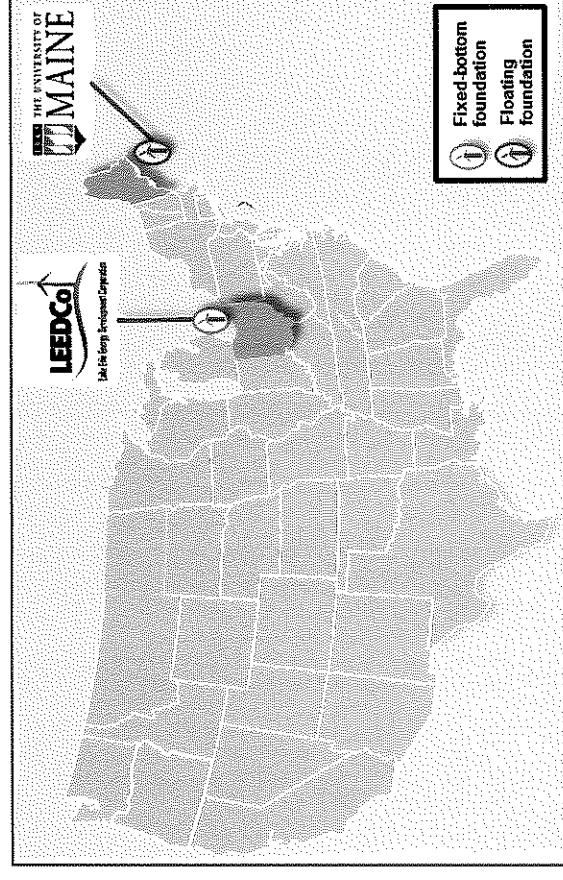
Energy Efficiency &
Renewable Energy

Technology Goals:

- Install innovative offshore wind systems in U.S. waters, rapidly and responsibly
- Drive down the cost of offshore wind with demonstration project innovations

Permitting and Siting Goals:

- Evaluating current siting and approval processes and identifying opportunities for improvement
- Advance the regulatory frameworks vital to implementing offshore wind in the U.S.
- Address public concerns associated with the concept of offshore wind



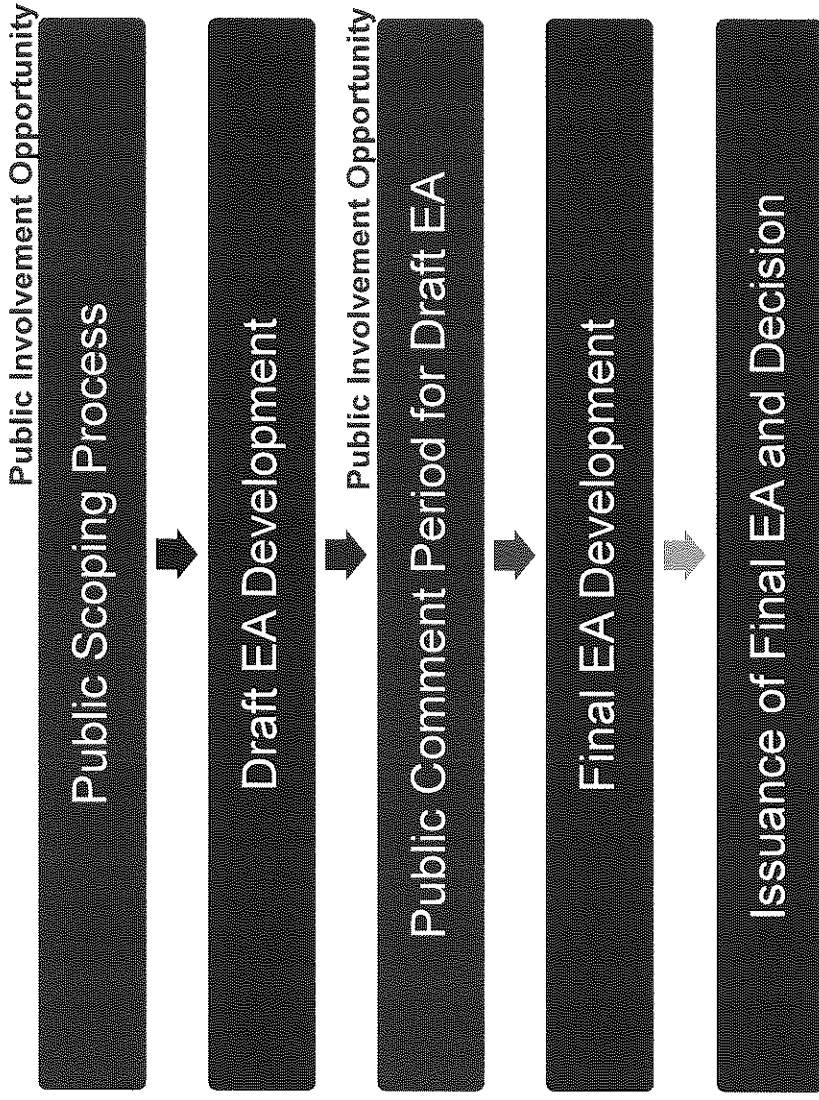
DOE's Proposed Action

- DOE is proposing to provide the University of Maine funding to support the development of the New England Aqua Ventus I project (proposed project).
 - Development actions include design, construction and commissioning of the proposed project; environmental monitoring; and up to five years of post-construction structural and performance monitoring data collection.
 - Operation, maintenance and eventual decommissioning of the proposed project will also be analyzed in the EA since they are connected actions.

Alternatives

- Power and fiber optic cable to Monhegan Island
- No Action Alternative

Key Steps in the DOE National Environmental Policy Act (NEPA) Process



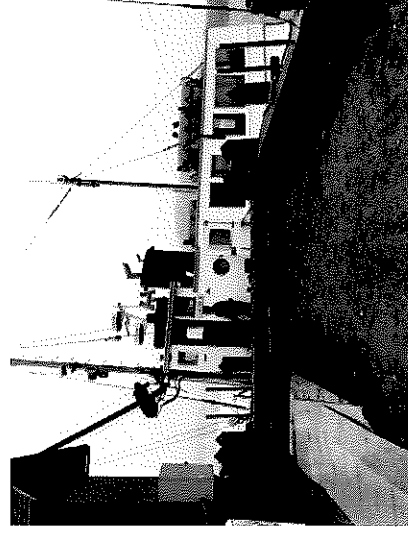
NEPA documentation and status updates posted for public review on DOE website:

www.energy.gov/node/2053718

DOE NEPA Scoping Process

Public Scoping Informational Meetings:

- 2/28/2017 – Two public meetings in Tenants Harbor, ME
- 3/1/2017 – One public meeting in Monhegan Island, ME included remote participation
- 113 comment letters received

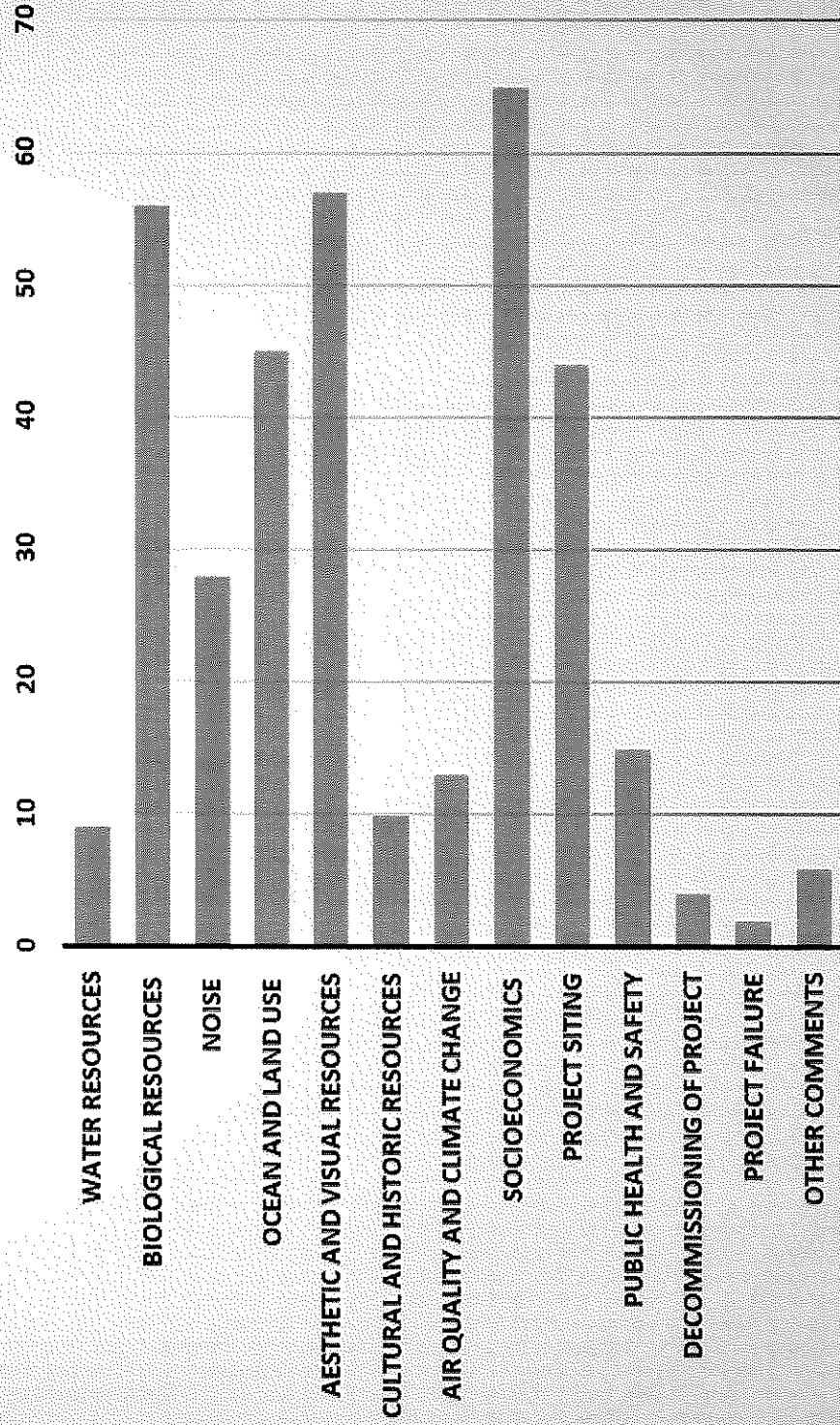


DOE NEPA Scoping Process

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

Summary of Scoping Comments Received by Topic Area



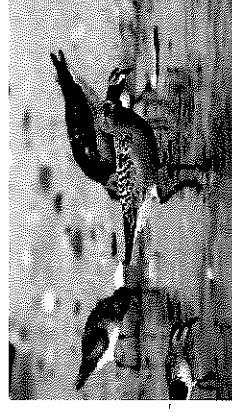
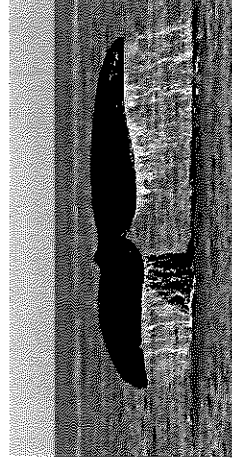
Coordination of Federal/State Agency Processes

- Permitting and NEPA requirements
 - ✓ Detailed Project Description
- Joint Consultations where possible (i.e. Endangered Species Act, National Historic Preservation Act)
 - ✓ Identification of Consulting Parties
 - ✓ Development of Consultation Information

Development of Draft EA

- Identification of Cooperating Agencies and Reviewing Agencies
- Completion of Required Consultations

Public Comment Period for Draft EA



Thank you.

Lori Gray
NEPA Division Director
240.562.1568
Lori.Gray@ee.doe.gov

Diana Heyder
NEPA Specialist
240.562.1574
Diana.Heyder@ee.doe.gov

**NEPA Status and Updates for New England
Aqua Ventus I**
www.energy.gov/node/2053718

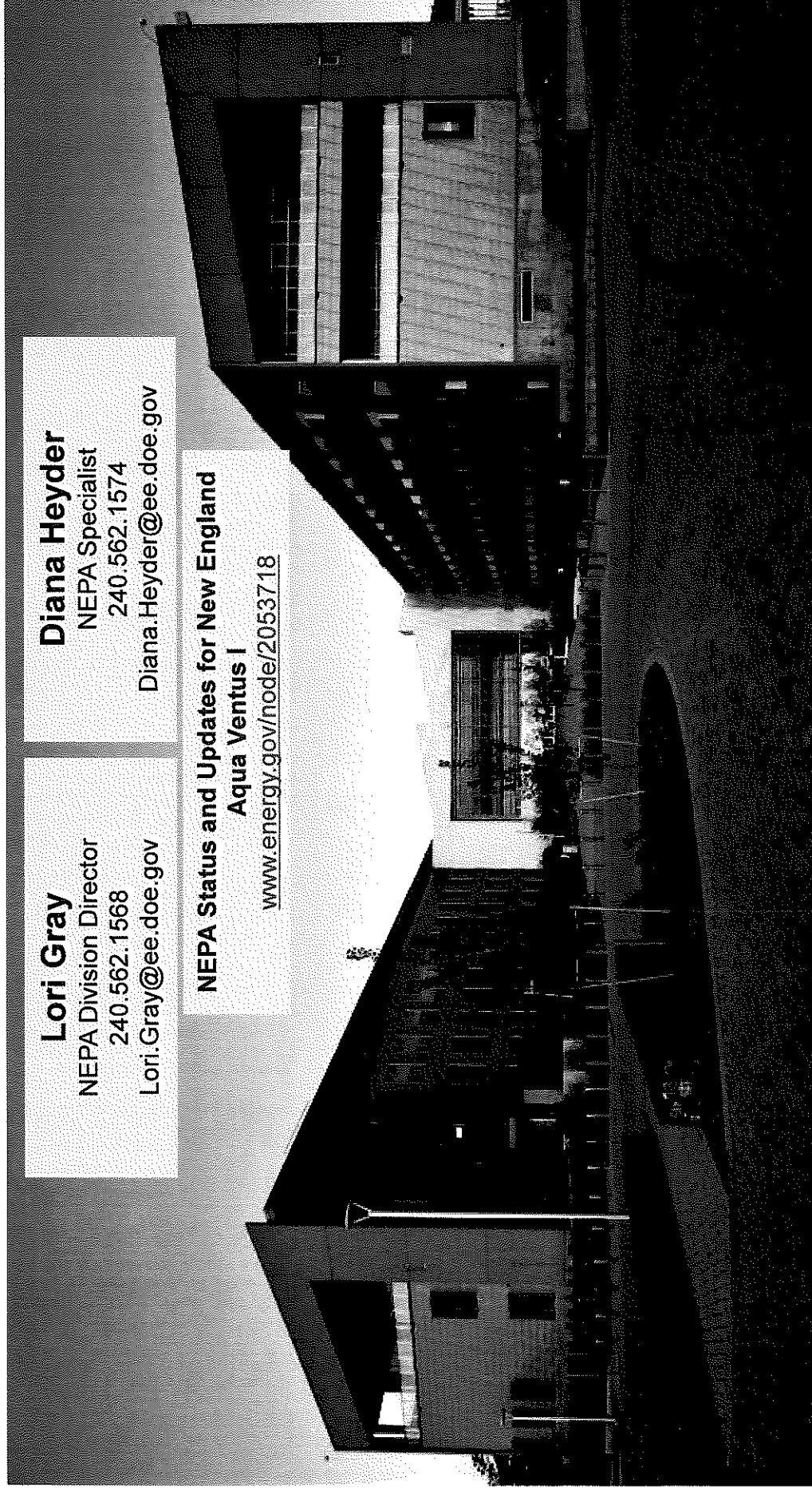


Photo Credits: Dennis Schroeder, Warren Gretz, Brent Nelson, Jennifer Josey, Sheila Hayter, Jennifer Southerland, & Lee Jay Fingersh

2018 Maine Fishermen's Forum Call for Seminar Proposals

Founded in 1976, the mission of the Maine Fishermen's Forum is to provide opportunities on a continuous basis to educate the public and the fishing industry about fisheries and marine resource issues, and to provide a neutral platform for constructive discussion and decision making. At the Forum, there are two full days of seminars open to the public to attend at no cost. There are limited spaces available for seminars, and the size of the seminar rooms varies from small (15-20 attendees) to large (100 attendees). Seminars will be held on Friday, March 2, and Saturday, March 3, from 9 am to 4 pm each day. Seminars run approximately 90 minutes.

Proposal Requirements:

We welcome proposals that:

- Address new or hot issues facing the wild harvest fishing or aquaculture industry
- Promote information sharing among industry, scientists and managers
- Promote audience engagement and interaction
- Bring contrasting perspectives and encourage respectful dialogue among participants
- Strengthen networks and collaboration
- Provide replicable models for success

Proposals should be no longer than one page, single spaced, and must include the following three pieces of information:

1. Applicant Name, Title, Organization (if applicable)
2. Brief Seminar Topic Summary (250 words suggested), to include:
 - a. How the session addresses issues of current interest to the fishing or aquaculture industry;
 - b. How the seminar will engage the audience; and
 - c. Proposed speakers/panelists and organizations, if known.
3. Preference for which day the seminar is scheduled (Friday or Saturday) and any relevant information about panelist availability, if limited to one day or the other.

The Forum Board will seek to create an overall seminar schedule which addresses a diversity of both state and federal fisheries, wild caught and aquaculture issues, and reflects participation of a range of organizations and entities. Proposals will be chosen based on the quality of information presented, including:

- Demonstrated interest from and involvement of industry partners in session development and potential to draw a significant audience of industry members
- Degree to which the information is practical in light of the current social, environmental and economic climate
- Association meetings will also be evaluated based on the expected attendance, so please include number of members in an application for an association meeting.

Please note: Proposals containing commercial or promotional content will not be accepted.

Proposal and Poster Deadlines:

- Proposals must be received no later than November 1, 2017, midnight, EST. Please email proposals to coordinator@mainefishermensforum.org or you can mail a paper copy to: Maine Fishermen's Forum, PO Box 288, Bath, ME 04530.
- You will be notified as to the status of your proposal by December 1, 2017. Your proposal may be 1) accepted as written, 2) tentatively accepted with potential revisions suggested by the Board, or 3) deemed not to have met requirements outlined above. If your proposal is accepted, you will be assigned a Board host, and will have until January 15th to provide all information for the session, including a final description of the session topic, as well as names and contact information for all speakers/panelists.

Leyden, Kathleen

From: Burrowes, Todd
Sent: Thursday, September 21, 2017 5:08 PM
To: Leyden, Kathleen; Torrent, Theresa; Enterline, Claire
Subject: RE: Maine Fishermen's Forum Seminars

Here are a couple of ideas:

- Maine Aqua Ventus project – either a status update or “lessons learned” oriented session depending on the then-existing status of pertinent regulatory proceedings, with focus on fishing-related issues and opportunities to address them under the existing regulatory framework; Lead presenters: DEP staff and a representative of Maine Aqua Ventus
- Southern Maine-NH ocean disposal site designation – status update, including anticipated decision making timetable , with focus on fishing-related issues and opportunities to address under the EPA site designation process; Lead presenter(s): EPA and ACOE staff

- Todd

From: Leyden, Kathleen
Sent: Thursday, September 21, 2017 1:43 PM
To: Burrowes, Todd <Todd.Burrowes@maine.gov>; Torrent, Theresa <theresa.torrent@maine.gov>; Enterline, Claire <Claire.Enterline@maine.gov>
Subject: FW: Maine Fishermen's Forum Seminars

Bottom up. Any ideas?

From: Mendelson, Meredith
Sent: Thursday, September 21, 2017 1:41 PM
To: Wilson, Carl <Carl.Wilson@maine.gov>; Kanwit, Kohl <Kohl.Kanwit@maine.gov>; Lewis, Jon <Jon.Lewis@maine.gov>; Leyden, Kathleen <Kathleen.Leyden@maine.gov>; Gilbert, Deirdre <Deirdre.Gilbert@maine.gov>
Subject: Maine Fishermen's Forum Seminars

All—

See the attached RFP for sessions at the Fishermen’s Forum. Please have staff discuss ideas with me if they intend to apply for a session, as I am DMR’s rep on the Forum Board and want to be sure we are all coordinating about the priorities we want to put forward.

Thanks,
Meredith

Leyden, Kathleen

From: Mendelson, Meredith
Sent: Monday, September 25, 2017 11:18 AM
To: Leyden, Kathleen
Subject: RE: another one Maine Fishermen's Forum Seminars

Yes, I had been thinking about a session on Coast Survey's work and data products available from NOAA, and this might make a nice overview for that if Claire was willing to host and help identify other pieces if appropriate. Sessions are definitely getting more competitive, as we reduced the available slots by I think 8 last year? Also always hard to get federal people up on a Saturday, which limits scheduling. The more we can do to build a dense session with compatible topics, the better chance the session will have for being approved.

Less enthused about specific project sessions (eg AquaVentus or IOSN designation) for a bunch of reasons, and suspect MAV may come up in a broader-topic session anyway. Marine Debris Plan could maybe be integrated into something else? Happy to discuss/brainstorm further with you and staff.

From: Leyden, Kathleen
Sent: Monday, September 25, 2017 10:42 AM
To: Mendelson, Meredith <Meredith.Mendelson@maine.gov>
Subject: another one Maine Fishermen's Forum Seminars

I like this one, although probably would attract a small audience. Could be an introduction to DMR's new program.

From: Enterline, Claire
Sent: Monday, September 25, 2017 10:35 AM
To: Burrowes, Todd <Todd.Burrowes@maine.gov>; Leyden, Kathleen <Kathleen.Leyden@maine.gov>; Torrent, Theresa <theresa.torrent@maine.gov>
Subject: RE: Maine Fishermen's Forum Seminars

Also, maybe following up on some of the NOAA review recommendations, how about a general "What is the Maine Coastal Program?" session with some of our highlighted work?

Leyden, Kathleen

From: Leyden, Kathleen
Sent: Thursday, October 26, 2017 4:52 PM
To: Burrowes, Todd; Torrent, Theresa; Enterline, Claire
Subject: FW: Maine Fishermen's Forum RFP reminder
Attachments: 2018 Seminar Call for Proposals.pdf

Hi all. Thanks for ideas you provided earlier.

Todd – Meredith thought that your ideas were good, but focused on specific geographies, so not ripe for the Forum. I suspect AquaVentus may submit something on their own.

Theresa – Can you please write up your idea for the marine debris session?

Claire – I can't recall if you submitted any ideas. Do you have something in mind? I can run it by MM before you invest time in writing this up.

From: Mendelson, Meredith
Sent: Monday, October 16, 2017 11:08 AM
To: DMR Bureau of Marine Science <ALL-DMR-Marine-Science-List@maine.gov>; DMR-Public-Health <DMR.PublicHealth@maine.gov>; DMR CoastalProgram <DMR.CoastalProgram@maine.gov>
Subject: Maine Fishermen's Forum RFP reminder

Hi all—

As a reminder, the Maine Fishermen's Forum has an RFP process for seminar sessions. If you are interested in hosting a session, **proposals are due November 1st**. I encourage you to also reach out to me to discuss your idea so that we can ensure DMR proposals are all strong and understand your objectives so that I can effectively advocate for its inclusion when the Forum Board reviews proposals next month.

Thanks,
Meredith

Leyden, Kathleen

From: Burrowes, Todd
Sent: Monday, September 18, 2017 3:08 PM
To: Bergeron, Mark
Cc: Leyden, Kathleen
Subject: Aqua Ventus

Hi, Mark. Please let me know when you have a some time to talk about the anticipated regulatory path and related timetable for the Aqua Ventus project.

Thanks,
Todd

Leyden, Kathleen

From: Mendelson, Meredith
Sent: Tuesday, October 03, 2017 11:24 AM
To: Leyden, Kathleen
Cc: Burrowes, Todd
Subject: RE: Geophysical Survey Informational Document

No re: cable, though we agreed when MAV was considering going into Round Pond that the cable would be hanging in a number of places and suggested that they go north for that reason.

No re AQ sites.

Good comment re MSHPO and good Q re sound.

Happy to include request for a shorter version—thoughts on who that audience would be? I think this level of info is good for distribution to fishermen who will ask all these questions and more, most likely.

From: Leyden, Kathleen
Sent: Tuesday, October 03, 2017 11:06 AM
To: Mendelson, Meredith <Meredith.Mendelson@maine.gov>
Cc: Burrowes, Todd <Todd.Burrowes@maine.gov>
Subject: RE: Geophysical Survey Informational Document

Couple of quick comments (not related to your q's):

- Are there aquaculture sites in the way?
- The text says – “The survey will also determine the archeological significance of any potential artifacts...” I would think they’d say “locate for MSHPO’s determination of significance”.
- With respect to a public document, although this conveys a lot of information and needed details, perhaps they should have a shorter version with basics, or a series of one-pagers with illustrations?
- Will there be noise that people should anticipate – 24/7?

Do you want to get specifics on the company and their track record prior to the survey? This is much different, but I’m remembering that awful dredge company.

From: Mendelson, Meredith
Sent: Tuesday, October 03, 2017 10:33 AM
To: Cotnoir, Sarah <Sarah.Cotnoir@maine.gov>; Cloutier, Rene <Rene.Cloutier@maine.gov>; Wilson, Carl <Carl.Wilson@maine.gov>; Gilbert, Deirdre <Deirdre.Gilbert@maine.gov>; Reardon, Kathleen <Kathleen.Reardon@maine.gov>
Cc: Leyden, Kathleen <Kathleen.Leyden@maine.gov>; Burrowes, Todd <Todd.Burrowes@maine.gov>
Subject: FW: Geophysical Survey Informational Document

All—
Please review the attached document about the upcoming survey for the cable route to Monhegan for MAV. Please review this public-facing document by COB tomorrow and provide any feedback you may have. Seeking input on a few items specifically:

- 1) Should we suggest the encourage fishermen to keep gear out of the cable area and a 40' buffer on each side for the duration of the survey (first two weeks of November, maybe?)
- 2) Thoughts about whether or not they should be saying there is a gear compensation plan in place? Or add in a note that fishermen will need to demonstrate certain things/meet certain criteria to be reimbursed?

I am also going to ask for more clarity re the three points of contact—who should be contacted for which purpose between Matt and Mark, and should vessel only be contacted for immediate, on-water concerns, etc.

From: Matthew Nixon [<mailto:matthew.nixon@maine.edu>]

Sent: Friday, September 29, 2017 7:37 PM

To: Mendelson, Meredith <Meredith.Mendelson@maine.gov>

Cc: 'Habib Dagher' (hd@umit.maine.edu) <hd@umit.maine.edu>; James Ward IV <jsward@maine.edu>; Nathan Johnson <njohnson@orpc.co>

Subject: Geophysical Survey Informational Document

Good Evening Deputy Commissioner Mendelson.

Attached, please find a draft document containing maps, schedules, and equipment details for the New England Aqua Ventus proposed geophysical survey. Please let us know if you have any immediate concerns and do not hesitate to ask questions should you have them. Additional details including a draft outreach plan and gear compensation details will be forthcoming.

-matt

Leyden, Kathleen

From: Mendelson, Meredith
Sent: Tuesday, October 03, 2017 11:39 AM
To: Cotnoir, Sarah; Wilson, Carl; Cloutier, Rene; Gilbert, Deirdre; Reardon, Kathleen
Cc: Leyden, Kathleen; Burrowes, Todd
Subject: RE: Geophysical Survey Informational Document

Thanks Sarah. My understanding is that the University has been working directly with the Monhegan fishermen about the survey work around the island, but I will confirm that.

From: Cotnoir, Sarah
Sent: Tuesday, October 03, 2017 11:37 AM
To: Wilson, Carl <Carl.Wilson@maine.gov>; Mendelson, Meredith <Meredith.Mendelson@maine.gov>; Cloutier, Rene <Rene.Cloutier@maine.gov>; Gilbert, Deirdre <Deirdre.Gilbert@maine.gov>; Reardon, Kathleen <Kathleen.Reardon@maine.gov>
Cc: Leyden, Kathleen <Kathleen.Leyden@maine.gov>; Burrowes, Todd <Todd.Burrowes@maine.gov>
Subject: RE: Geophysical Survey Informational Document

I agree with Carl that the towed equipment will be a problem. However...it's probably a necessary evil.

Since the Monhegan season just opened Sunday, they will have had gear set for a month when this project starts. Is there any wiggle room on having their gear out of there for less time than 2 weeks? The document says the total Monhegan test time is 3 days weather permitting. November is typically a productive month.

For #2 below, I like the second piece better. That fishermen will need to demonstrate certain things/meet certain criteria and contact 'X' for more information. 'X' can explain what the reimbursement process is. Maybe if it's not advertised that there is a gear compensation plan available, people will be more motivated to move their gear. But I think either way would work.

From: Wilson, Carl
Sent: Tuesday, October 03, 2017 11:07 AM
To: Mendelson, Meredith <Meredith.Mendelson@maine.gov>; Cotnoir, Sarah <Sarah.Cotnoir@maine.gov>; Cloutier, Rene <Rene.Cloutier@maine.gov>; Gilbert, Deirdre <Deirdre.Gilbert@maine.gov>; Reardon, Kathleen <Kathleen.Reardon@maine.gov>
Cc: Leyden, Kathleen <Kathleen.Leyden@maine.gov>; Burrowes, Todd <Todd.Burrowes@maine.gov>
Subject: RE: Geophysical Survey Informational Document

A few comments on the PDF, if people want to pile on.

Carl Wilson
Director, Bureau of Marine Science
Maine Department of Marine Resources
PO Box 8, McKown Point Rd

West Boothbay Harbor, ME 04575
P 207.633.95.38 C 207.592.1422

From: Mendelson, Meredith

Sent: Tuesday, October 03, 2017 10:33 AM

To: Cotnoir, Sarah <Sarah.Cotnoir@maine.gov>; Cloutier, Rene <Rene.Cloutier@maine.gov>; Wilson, Carl <Carl.Wilson@maine.gov>; Gilbert, Deirdre <Deirdre.Gilbert@maine.gov>; Reardon, Kathleen <Kathleen.Reardon@maine.gov>

Cc: Leyden, Kathleen <Kathleen.Leyden@maine.gov>; Burrowes, Todd <Todd.Burrowes@maine.gov>

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Sent: Friday, September 29, 2017 7:37 PM

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-matt

Leyden, Kathleen

From: Burrowes, Todd
Sent: Tuesday, October 03, 2017 12:07 PM
To: Mendelson, Meredith; Cotnoir, Sarah; Cloutier, Rene; Wilson, Carl; Gilbert, Deirdre; Reardon, Kathleen
Cc: Leyden, Kathleen
Subject: RE: Geophysical Survey Informational Document

Meredith - Here are some ideas for your consideration:

* In the interest of openness, MAV should clarify that there is a gear compensation plan in place as noted in the pdf you shared, and provide the fishing community with pertinent details on how to assert and document gear loss and related issues. As part of the plan, it seems that it would be helpful for MAV to take date and time-stamped and geo-referenced surface video (during the day at least and assuming taking such video is not too cumbersome or costly) of the cable route it's working to help provide an objective basis for quantifying and confirming gear losses and identifying those to be compensated.

* Recommending that fishermen keep gear away from the area to be surveyed, plus an appropriate buffer (related to how the gear moves through the water), during the survey period sounds like a good idea to minimize conflicts. If removal of gear from the survey area during the survey period may be required as a condition for receipt of full compensation from MAV for gear loss, that may also be a good idea. Such an approach may allow fishermen who wish to continue to fish in the survey area to continue to do so and, having assumed the risk of loss, to rely on their insurance to address any gear loss-related claims. (That said, I do not have insight into how an insurer would respond to a claimed loss if a person had been told of the survey and elected not to remove gear from the area.)

* MAV should communicate daily on the appropriate marine band frequency when and where and how (type of equipment) it intends to survey that day.

- Todd

From: Mendelson, Meredith
Sent: Tuesday, October 03, 2017 10:33 AM
To: Cotnoir, Sarah <Sarah.Cotnoir@maine.gov>; Cloutier, Rene <Rene.Cloutier@maine.gov>; Wilson, Carl <Carl.Wilson@maine.gov>; Gilbert, Deirdre <Deirdre.Gilbert@maine.gov>; Reardon, Kathleen <Kathleen.Reardon@maine.gov>
Cc: Leyden, Kathleen <Kathleen.Leyden@maine.gov>; Burrowes, Todd <Todd.Burrowes@maine.gov>
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-matt

Leyden, Kathleen

From: Mendelson, Meredith
Sent: Wednesday, October 11, 2017 3:29 PM
To: Cloutier, Rene; Cotnoir, Sarah; Wilson, Carl; Reardon, Kathleen; White, Daniel E; Talbot, Matt
Cc: Leyden, Kathleen; Burrowes, Todd; Dickson, Stephen M.
Subject: MAV Survey Port Clyde to Monhegan
Attachments: MAV SURVEY DESCRIPTION_DRAFT_DMR comments.pdf

FYI—see response below from MAV on the comments we sent on their summary document (attached again here if you missed it). I saw Jake Ward yesterday and sounds like they are going to do the Searsport work at the end of the survey rather than the beginning as it will be a smaller vessel performing the work. Only 3 days for the Monhegan portion of the work, to your questions/concerns, Sarah. They have been communicating directly with fishermen on the island. Jake also agreed with our assessment on the gear compensation plan. They are rethinking their communications on that. They hope to have final documents pinned down by week's end and out the door. I emphasized the need to get the word out ASAP.

From: Matt Nixon [mailto:matthew.nixon@maine.edu]
Sent: Sunday, October 08, 2017 6:01 PM
To: Mendelson, Meredith <Meredith.Mendelson@maine.gov>
Cc: James Ward IV <jsward@maine.edu>; Habib Dagher <hd@maine.edu>; Nathan Johnson <njohnson@orpc.co>
Subject: RE: Zone D Lobster License Holder List

Meredith,

Answers to the questions in the body of your email first. I will make sure Alpine is aware of your request regarding daily marine band radio communications. They've done work up here before so I'll assume that it's part of the plan, but I will double check with them to verify. Regarding noise impact, are you referring to the actual vessel itself or the equipment? All of the equipment will be underwater when in operation, There will be no audible impact from the surface. The vessel is a 110 foot monohull with dual dynamic positioning thrusters aft and a bow thruster forward. I suspect it's on the same decibel level as one of the Fox Island ferries.

Regarding the comments in the document itself:

- 1) I think we're all on the same page with most of the comments. We'll consider making changes where appropriate based on your feedback.
- 2) To answer Mr. Wilson's question on seismic equipment deployment, in order to appropriately install a cable, MAV needs to know what the substrate looks like. If there is bedrock 1 foot below the sediment, installation may be challenging and alternatives will need to be developed. Additionally, MHPC needs this information for their determination of impact.
- 3) MAV intends to hire a local to install highflyer buoys along both the cable route and within the test site itself delineating where the vessel will be prior to the survey.
- 4) The landside interconnect has not been determined as of yet and is not needed for the geophysical survey's work products. Regardless, the Shearwater would not be surveying in waters close to shore anyway for practical reasons including draft, activity levels, and safety concerns.

Outreach materials are still forthcoming and MAV is waiting for one of its partners to provide final details for the plan's release.

-matt

Sent from Mail for Windows 10

From: Mendelson, Meredith

Sent: Thursday, October 5, 2017 5:26 PM

To: Matthew Nixon

Subject: Fw: Zone D Lobster License Holder List

Matt,

Attached please find the contact list for Zone D. I'd urge you to get any communications out as soon as possible. Please forward the outreach strategy and gear compensation plan when you are able.

A couple thoughts on the document you sent earlier this week are also attached.

Additionally, two questions:

Will Alpine communicate daily on the appropriate marine band frequency when and where and how (type of equipment) it intends to survey that day?

Will there be any noise impact from the vessel that people should be aware of as well?

Thanks,

Meredith



Geophysical and Permitting Survey

An overview of the seabed survey planned for November 3rd through November 19th 2017, weather permitting, that will help determine the cable path and assembly area for the MAV project off Monhegan Island.

Length	110 ft
Beam	39 ft
Draft	7 ft

The Maine Aqua Ventus (MAV) floating offshore wind turbines demonstration project requires a seabed survey of the cable route from the wind turbine array located approximately 2.5 miles south of Monhegan Island and running approximately 26km north to the Port Clyde area. The proposed cable route follows an existing charted cable way specifically selected to minimize any impact on fishermen and fishing activities. Other areas to be surveyed include the test site 2.3 miles South of Monhegan Island where the floating turbines will be installed and moored, as well as a small area located in upper Penobscot Bay that will be used on a temporary basis for hull assembly and turbine installation. The seabed survey will be conducted

by Alpine Ocean Seismic Survey, Inc. (Alpine), a very experienced firm in doing this work, including working collaboratively with the fishing community to minimize interference with fishing gear. A gear compensation program is in place in case of accidental fishing gear interference. The survey will determine the seabottom conditions where the cable may be placed, to help design the cable and determine the cable installation methods. It will provide a geophysical picture of the seabed contours in addition to interpreting the geology which exists along the cable route. The survey will also determine the archeological significance of any potential artifacts that may reside on or below the seabed so that they can be avoided and protected. This survey's products will help to inform the Maine State Historic Preservation Office (SHPO) of the archeological significance of the seabed and will be used to finalize permitting requirements for the installation of the transmission cable and identification of a turbine installation area.



Figure 1 - R/V Shearwater Length 110 ft, beam 39 ft, draft 7 ft



ACOUSTIC SOUND EQUIPMENT TO BE USED

- **Sidescan sonar** which provides a high resolution acoustic image of the seabed and will help identify objects such as pinnacles, rock formations and shipwrecks that may exist along the cable route.
- A **magnetometer** will provide indications of ferrous (metal) objects on the seabed.
- A **Sub-Bottom Profiler** will provide a seismic image of the geology 2 fathoms below the seabed and will help identify the geological substructure and other obstructions.
- A **Multi-Beam Echosounder** will provide a detailed map of the seabed bathymetry and geophysical content of the seabed.
- A **Bubbler System** is a seismic sonar system that will provide an acoustic picture of the geological formations found 25 fathoms below the seabed. This system will provide the Maine SHP office with a picture of the coastline prior to the last ice age.

The R/V Shearwater survey vessel (Figure 1) is 110 feet long. The vessel and 22 survey crew members will work 24 hours a day, 7 days a week. The vessel will deploy all of the equipment listed above and will proceed at a speed no greater than 4 knots along the cable route. The vessel and survey crew will make 5 - 6 passes along the route from the turbine test site to Port Clyde and total time towing the equipment at sea is estimated to be 4 days, weather permitting. The total survey time at the Monhegan test site is 3 days, weather permitting. Total time spent in the vicinity of

Searsport in upper Penobscot Bay is estimated to be approximately 3 days.

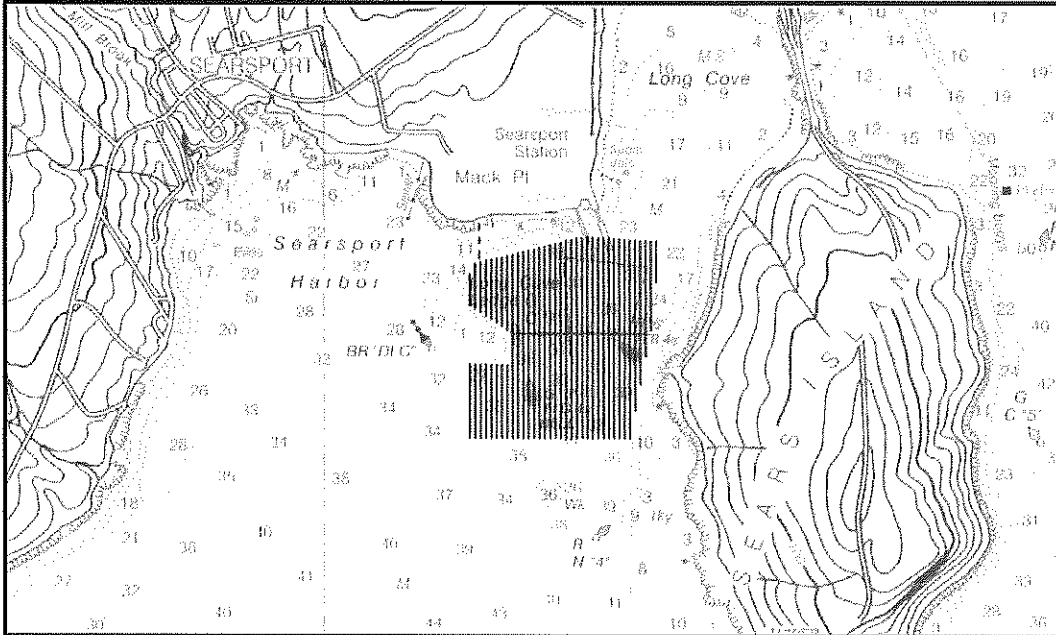
The survey work is a remote sensing of the environmental, geophysical, and geological conditions of the seabed and subsurface along the cable route to Port Clyde and in the Monhegan and Searsport areas. At no time will the equipment touch the seabed or be deployed to the seabed. Towed survey equipment will be at a depth at least 2 to 4 fathoms off the bottom and at a distance ranging from 10 to 150 fathoms behind the vessel. In addition, the towed equipment, in this case, the side scan sonar and the magnetometer possess onboard navigational systems, allowing the shipboard operator to know precisely where each device is at all times. The equipment listed above is commonly used by survey companies in the pre-design engineering data collection phase. The data collected will be used by government permitting agencies, the project design team, University of Maine, and power cable suppliers.



Figure 2 - SB-424 Towfish (Sidescan Sonar)



PROPOSED CABLE MAP AND SURVEY LOCATIONS

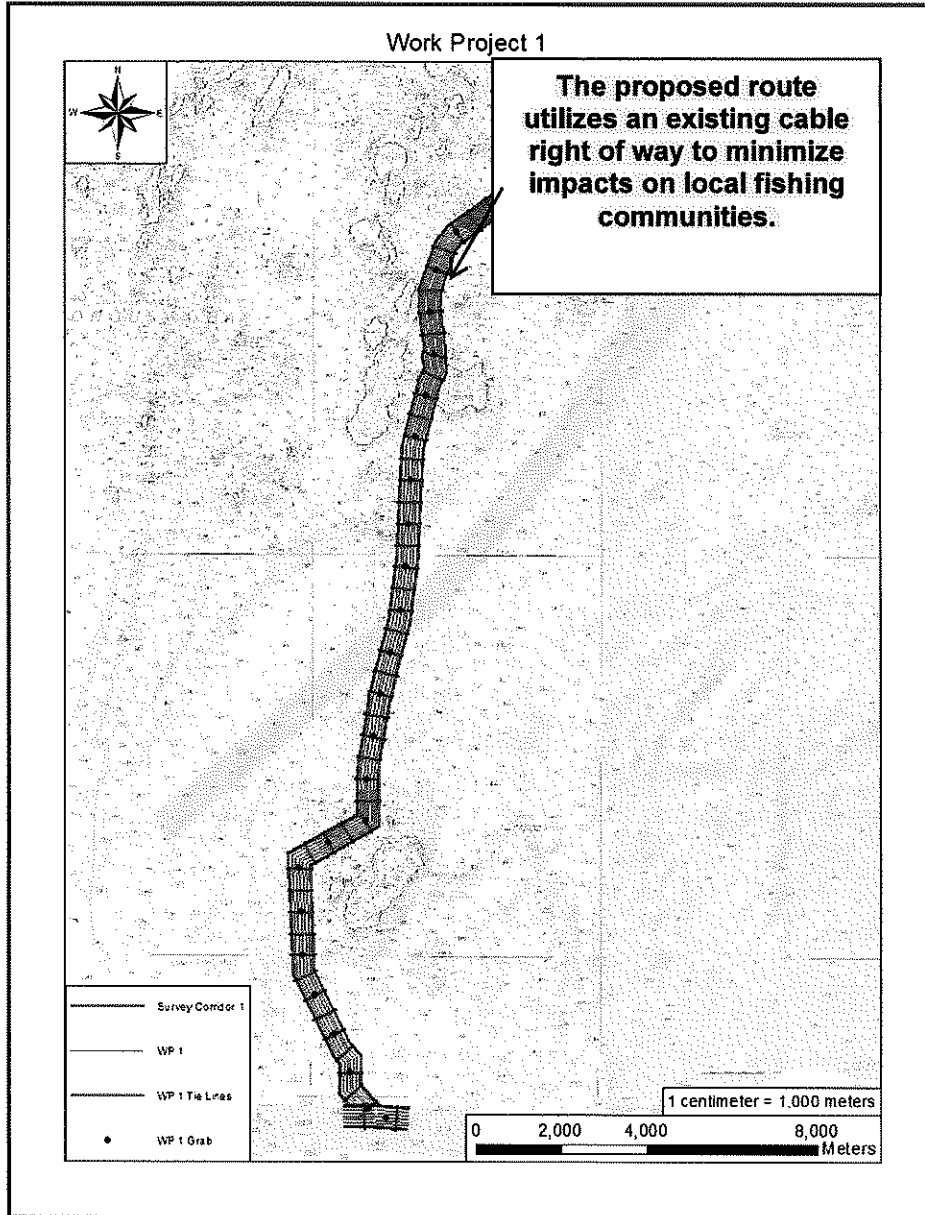


This map shows the current proposed turbine assembly areas off of Searsport that will be finalized after the seabed survey conducted by Alpine, Inc.

Task	Units
Total Number Survey Lines	44 lines @ 98ft line spacing
Total Number of Tie Lines	1
Total Line Miles	21
Total Number Grab Samples	2



PROPOSED CABLE MAP AND SURVEY LOCATIONS (CONTINUED)



This map shows the current proposed cable route from Monhegan Island to Port Clyde that will be finalized after the seabed survey

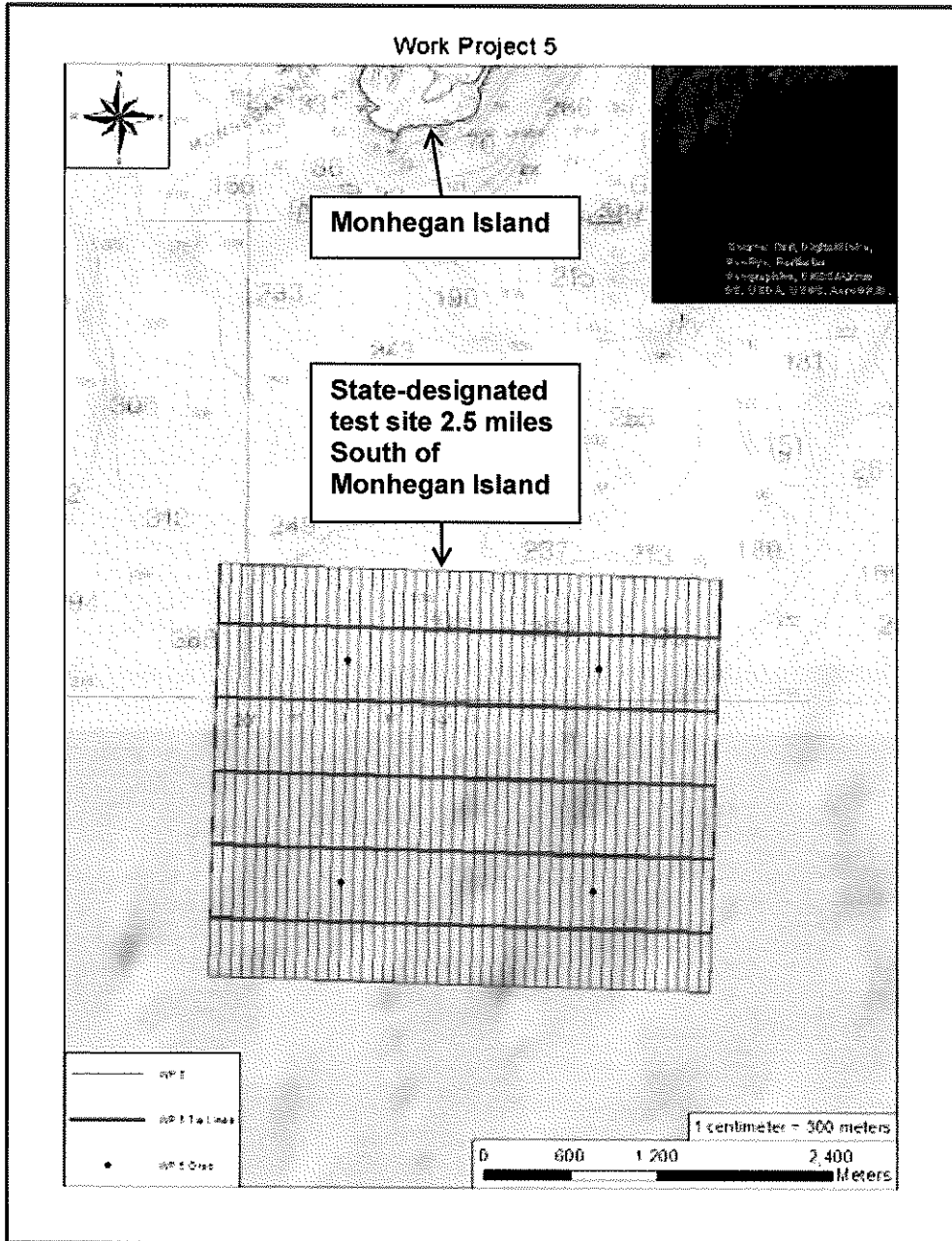
Please note the proposed route utilizes an existing cable right of way to minimize impacts to local communities.

Additionally, please note that there has been no cable landing point determined at this time. The cable landing point and onshore cable route will be selected to minimize inconvenience to local communities.

Task	Units
Total Number Survey Lines	15 lines @ 114ft line spacing 18 lines @ 196ft line spacing 14 lines @ 246ft line spacing
Total Number of Tie Lines	54
Total Line Miles	167
Total Number Grab Samples	26



PROPOSED CABLE MAP AND SURVEY LOCATIONS (CONTINUED)



This map shows proposed geophysical survey activities at the MAV ocean energy demonstration site 2.5 miles South of Monhegan Island.

Task	Units
Total Number Survey Lines	47 lines @ 246 ft line spacing
Total Number of Tie Lines	5
Total Line Miles	99
Total Number Grab Samples	4



KEY CONTACTS

Maine Aqua Ventus Contact: Matt Nixon
Cell: (207) 350-9854
Email: Matthew.Nixon@Maine.edu

Alpine Contact: Mark L. Kosakowski
Cell: (201) 693-0408
Email: mlkosakowski@alpineocean.com

R/V Shearwater Contact: Capt. Wayne Porter
Cell: (201) 312-5074
Onsite Party Cell: (201) 414-4525
Vessel Satellite Phone: (201) 297-6015
Email: wporter@alpineocean.com
VHF: Ch. 13/16
Call Sign: WDF5838
MMSI: 368528000



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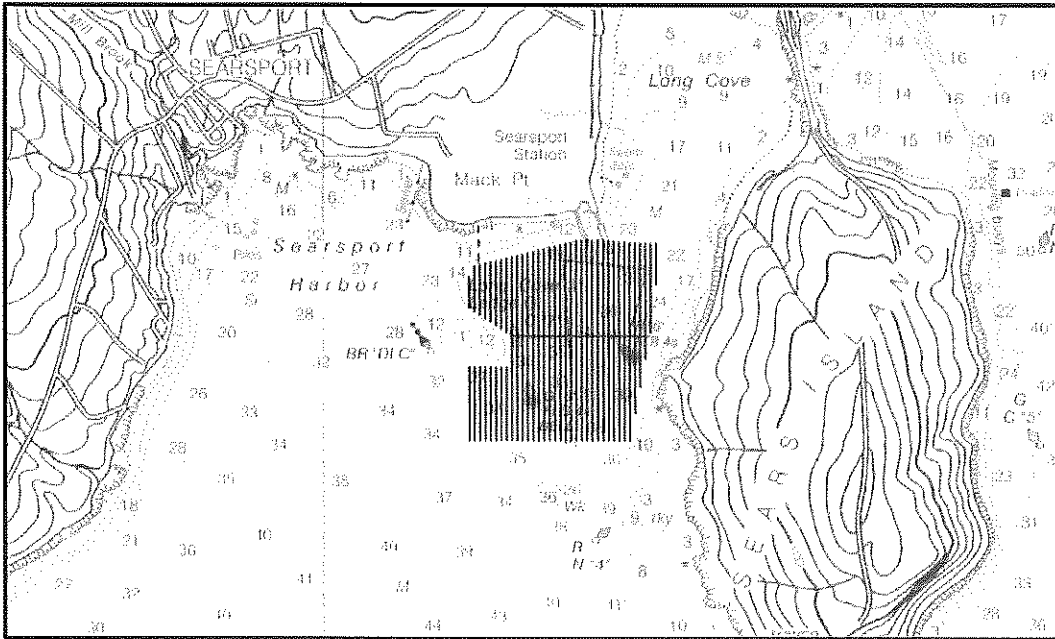
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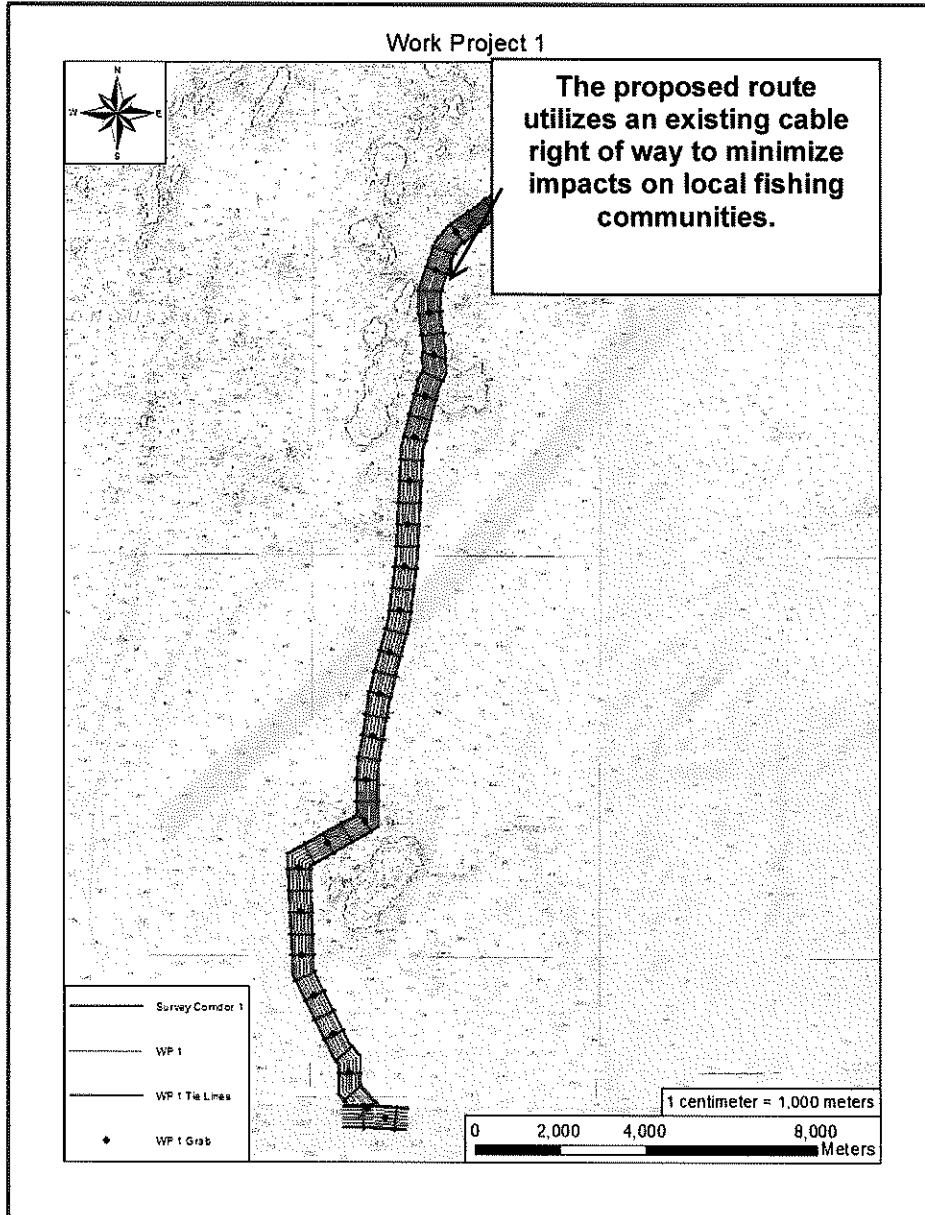


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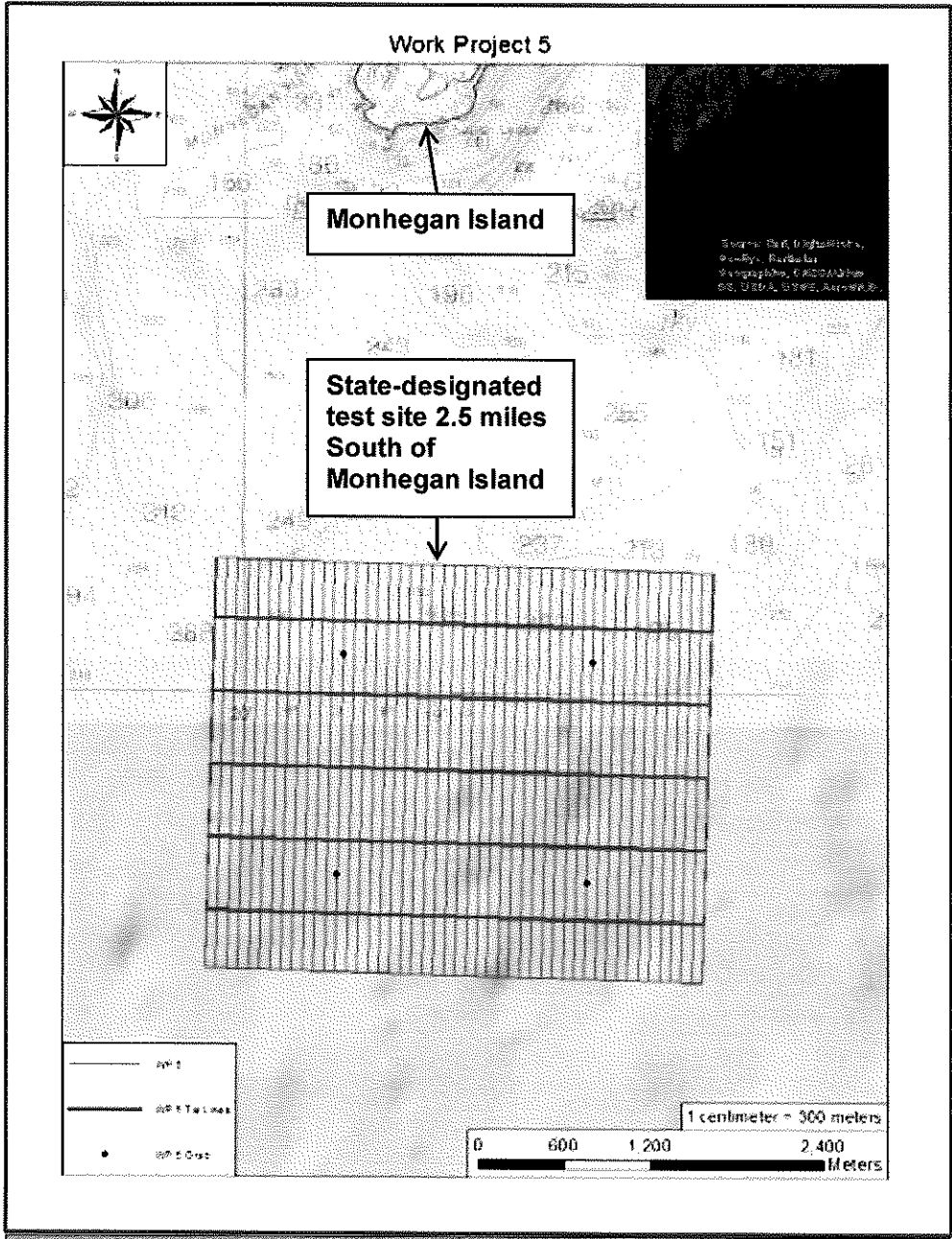
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Onsite Party Cell: (201) 414-4525
Vessel Satellite Phone: (201) 297-6015
Email: wporter@alpineocean.com
VHF: Ch. 13/16
Call Sign: WDF5838
MMSI: 368528000

Leyden, Kathleen

From: Leyden, Kathleen
Sent: Tuesday, October 03, 2017 11:11 AM
To: Mendelson, Meredith
Cc: Burrowes, Todd
Subject: cable route

Hi again. Does DMR have standards regarding cable design and routing in different habitats?



Kathleen Leyden
Director, Maine Coastal Program
Maine Department of Marine Resources
State House Station 21 (mailing)
Augusta ME, 04333-0021
32 Blossom Lane (physical location)
207-287-3144 (desk)
207-557-4014 (mobile)
www.maineoceanprogram.org

Leyden, Kathleen

From: Leyden, Kathleen
Sent: Tuesday, October 10, 2017 4:28 PM
To: Nick Napoli; Gore, Simon (FELLOW)
Cc: Jennifer Greene
Subject: RE: Maine Aqua Ventus

Hi Nick. Matt Nixon is contracting with aquaventus while on leave from MCP. You can reach him at matthew.e.nixon@gmail.com. I don't know his UMaine contact info.

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From: Gore, Simon (FELLOW) <Simon.Gore@ee.doe.gov>
Sent: Tuesday, October 10, 2017 3:53:33 PM
To: Nick Napoli; Leyden, Kathleen
Cc: Jennifer Greene
Subject: RE: Maine Aqua Ventus

Hello Nick,

I'll forward this request to the Wind Energy Technologies Office and see if they have any contacts. I'll let know what I find.

Best,

Simon Gore

From: Nick Napoli [<mailto:nicknapoli01@gmail.com>]
Sent: Friday, October 06, 2017 3:06 PM
To: Gore, Simon (FELLOW) <Simon.Gore@ee.doe.gov>; Kathleen Leyden <Kathleen.Leyden@maine.gov>
Cc: Jennifer Greene <jenniferkgreene@gmail.com>
Subject: Maine Aqua Ventus

Simon and Kathleen:

Jenn Greene, copied here, is working to update the Energy and Infrastructure data on the NE Data Portal. Do you have a contact who would be able to get us more information about the test site off Monhegan Island? Specifically, we're looking to add the project footprint, seen on their website (<https://umaine.edu/offshorewindtestsite/>), to the portal. We can recreate the boundary, but it would be great if we got the file or coordinates from someone closer to the project.

Thank you,
Nick

Leyden, Kathleen

From: Keliher, Patrick
Sent: Tuesday, October 17, 2017 12:34 PM
To: Mendelson, Meredith; Burrowes, Todd; Leyden, Kathleen; Wilson, Carl; Cotnoir, Sarah; Gilbert, Deirdre; Nichols, Jeff
Subject: Re: Maine Aqua Ventus

Did you talk to Severin?

Patrick Keliher
Maine DMR

From: Mendelson, Meredith
Sent: Tuesday, October 17, 2017 12:23:13 PM
To: Keliher, Patrick; Burrowes, Todd; Leyden, Kathleen; Wilson, Carl; Cotnoir, Sarah; Gilbert, Deirdre; Nichols, Jeff
Subject: Maine Aqua Ventus

<http://bangordailynews.com/2017/10/16/news/midcoast/maine-coastal-villagers-say-cables-from-offshore-wind-project-will-wreck-their-way-of-life/>

<http://www.penbaypilot.com/article/fishermens-association-stands-local-community-opposition-maine-aqua-ventus-wind-projec/93421>

Leyden, Kathleen

From: Mendelson, Meredith
Sent: Tuesday, October 17, 2017 4:23 PM
To: Keliher, Patrick; Burrowes, Todd; Leyden, Kathleen; Wilson, Carl; Cotnoir, Sarah; Gilbert, Deirdre; Nichols, Jeff
Subject: RE: Maine Aqua Ventus

<http://www.penbaypilot.com/article/st-george-residents-submit-petition-opposing-wind-farm-monhegan/93430>

From: Mendelson, Meredith
Sent: Tuesday, October 17, 2017 12:23 PM
To: Keliher, Patrick <Patrick.Keliher@maine.gov>; Burrowes, Todd <Todd.Burrowes@maine.gov>; Leyden, Kathleen <Kathleen.Leyden@maine.gov>; Wilson, Carl (Carl.Wilson@maine.gov) <Carl.Wilson@maine.gov>; Cotnoir, Sarah (Sarah.Cotnoir@maine.gov) <Sarah.Cotnoir@maine.gov>; Gilbert, Deirdre <Deirdre.Gilbert@maine.gov>; Nichols, Jeff (Jeff.Nichols@maine.gov) <Jeff.Nichols@maine.gov>
Subject: Maine Aqua Ventus

<http://bangordailynews.com/2017/10/16/news/midcoast/maine-coastal-villagers-say-cables-from-offshore-wind-project-will-wreck-their-way-of-life/>

<http://www.penbaypilot.com/article/fishermens-association-stands-local-community-opposition-maine-aqua-ventus-wind-projec/93421>