



MAYFLOWER WIND

Mayflower Wind

Attachments to Section 7: Environmental Assessment, Permit Acquisition Plan and New Class I RPS Certification

**ATTACHMENT 7.3-1: REFERENCE LIST: OVERVIEW OF RELEVANT PEER-REVIEWED
SHELL (CO-) FUNDED MARINE SCIENCE PUBLICATIONS**

Acoustics and Passive Acoustic Monitoring

- Martin, B., K. Bröker, C. Morris, C. O'Neill. (2019). Applying Cumulative Sound Exposure Level in Marine Soundscape Management. *The Journal of the Acoustical Society of America* 146(1):135-149. DOI:10.1121/1.5113578
- Austin, M.E., D.E. Hannay and K. Bröker. (2018). Acoustic characterization of exploration drilling in the Chukchi and Beaufort seas. *The Journal of the Acoustical Society of America*. 144(1). doi: doi.org/10.1121/1.5044417
- Martin, B., M.R. Matthews, J.T. MacDonnell and K. Bröker (2017) Characteristics of seismic survey pulses and the ambient soundscape in Baffin Bay and Melville Bay, West Greenland. *The Journal of the Acoustical Society of America*. 142 (3331). doi.org/10.1121/1.5014049
- Thode A.M., S.B Blackwell, A.S. Conrad, K.H Kim, and A.M. Macrander. (2017). Decadal-scale frequency shift of migrating bowhead whale calls in the shallow Beaufort Sea. *The Journal of the Acoustical Society of America* 142(3):1482-1502. DOI:10.1121/1.5001064
- Frouin-Mouy, H. K. Kowarski, B. Martin and K. Bröker. (2016). Seasonal trends in acoustic detection of marine mammals in Baffin Bay and Melville Bay, northwest Greenland. *Arctic*. 70(1) 59-76. doi:10.14430/arctic 4632
- Thode, A.M., K.H. Kim, R.G. Norman, S.B. Blackwell, and C.R. Greene, Jr. (2016). Acoustic vector sensor beamforming reduces masking from underwater industrial noise during passive monitoring. *The Journal of the Acoustical Society of America* 139(4):EL105-EL111. DOI:10.1121/1.4946011
- Warner, G.A., S.E. Dosso, D.E. Hannay, and Jan Dettmer (2016). Bowhead whale localization using asynchronous hydrophones in the Chukchi Sea. *The Journal of the Acoustical Society of America* 140(7):20-34. DOI:10.1121/1.4954755
- Frouin-Mouy, H., X. Mouy, B. Martin, and D. Hannay (2015). Underwater acoustic behavior of bearded seals (*Erignathus barbatus*) in the northeastern Chukchi Sea, 2007–2010). *Marine Mammal Science* 32(1):141-160. DOI:10.1111/mms.12246
- Warner, G., S. Dosso, J. Dettmer, and D. Hannay. (2015) Bayesian environmental inversion of airgun modal dispersion using a single hydrophone in the Chukchi Sea. *The Journal of the Acoustical Society of America* 137(6):3009-3023. DOI:10.1121/1.4921284
- Blackwell, S.B., C.S. Nations, T.L. McDonald, A.M. Thode, D. Mathias, K.H. Kim, C.R. Greene, Jr, A. Michael Macrander. (2015). Effects of Airgun Sounds on Bowhead Whale Calling Rates: Evidence for Two Behavioral Thresholds. *PLoS ONE* 10(6):e0125720. DOI:10.1371/journal.pone.0125720
- Bonnel, J., A.M. Thode, and S.B. Blackwell (2014). Range estimation of bowhead whale (*Balaena mysticetus*) calls in the Arctic using time warping on a single hydrophone. *The Journal of the Acoustical Society of America* 136(1):145. DOI:10.1121/1.4883358
- Abadi, S.H., A.M. Thode, S.B. Blackwell, and D.R. Dowling. (2014) Ranging bowhead whale calls in a shallow-water dispersive waveguide. *The Journal of the Acoustical Society of America* 136(1):130. DOI:10.1121/1.4881924

- Blackwell, S.B., C.S. Nations, T.L. McDonald, C.R. Greene Jr., A.M. Thode, M. Guerra, and A.M. Macrander (2013). Effects of airgun sounds on bowhead whale calling rates in the Alaskan Beaufort Sea. *Marine Mammal Science* 29(4). DOI:10.1111/mms.12001
- Delarue, J., Martin, B., and Hannay, D. (2013). Minke whale boing sound detections in the Chukchi Sea. *Marine Mammal Science*, 29(3), DOI:10.1111/j.1748-7692.2012.00611.x
- Delarue, J., Martin, B., Hannay, D., and Berchok, C. L. (2013) Acoustic Occurrence and Affiliation of Fin Whales Detected in the Northeastern Chukchi Sea, July to October 2007-10. *Arctic*, 66(2), 159-172.
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- Rideout, B.P., Dosso, S.E. and D.E. Hannay (2013) Underwater 3-D Passive Acoustic Bayesian Tracking of Pacific Walrus Canadian Acoustics. *Canadian Acoustics*, 38, 3.
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- Guerra, M., A.M. Thode, S.B. Blackwell, and A.M. Macrander. (2011) Quantifying seismic survey reverberation off the Alaskan North Slope. *The Journal of the Acoustical Society of America* 130(5):3046-58. DOI:10.1121/1.3628326
- Delarue, J., Laurinolli, M., and Martin, B. (2010) Acoustic Detections of Beluga Whales in the Chukchi Sea, July 2007-2008. *Arctic* 64(1):15-24
- Thode, A.M., K.H. Kim, C.R. Greene Jr., and E. Roth. (2010) Long range transmission loss of broadband seismic pulses in the Arctic under ice-free conditions. *The Journal of the Acoustical Society of America* 128(4): EL181-7. DOI:10.1121/1.3479686
- Delarue, J., Laurinolli, M., and Martin (2009) Bowhead whale (*Balaena mysticetus*) songs in the Chukchi Sea between October 2007 and May 2008. *The Journal of the Acoustical Society of America* 126(6):3319-28. DOI:10.1121/1.3257201

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General Marine Ecology

Bröker, K., K. Leonard, R. G. Hansen, M. P. Heide-Jorgensen, B. Koski (2019). A comparison of narwhal sightings from aerial surveys over Melville Bay, West Greenland: digital image analysis versus aerial observations. *Marine Mammal Science*. DOI: 10.1111/mms.12586

Bröker, K. (2019). Oil and gas activities and marine mammal populations - an overview of impacts, and monitoring and mitigation measures. *Aquatic Mammals*.

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Robertson, F.C., W.R. Koski, T.A. Thomas, W.J. Richardson, B. Würsig and A.W. Trites (2013) Seismic sound has variable effects on dive-cycle behavior of bowhead whales in the Beaufort Sea. *Endangered Species Research* 21:143-160. doi: 10.3354/esr00515

- Aerts, L., A.E. McFariland, B.H. Watts, K.S. Lomac-MacNair, P.E. Seiser, S. Wisdom, A.V. Kirk, C.A. Schudel. (2013) Marine mammal distribution and abundance in an offshore sub-region of the northeastern Chukchi Sea during the open-water season. *Continental Shelf Research* 67:116-126. DOI:10.1016/j.csr.2013.04.020
- Blanchard, A.L., C.L. Parris, A. Knowlton, and N.R. Wade (2013) Benthic ecology of the northeastern Chukchi Sea. Part II. Spatial variation of megafaunal community structure, 2009-2010. *Continental Shelf Research*, 67:67-76. DOI:10.1016/j.csr.2013.04.031
- Blanchard, A.L., C.L. Parris, A.L. Knowlton, and N.R. Wade (2013) Benthic ecology of the northeastern Chukchi Sea. Part I. Environmental characteristics and macrofaunal community structure, 2008-2010. *Continental Shelf Research*, 67:52-66, DOI:10.1016/j.csr.2013.04.021
- Day, R.H., T.J. Weingartner, R.R. Hopcroft, L. Aerts, A.L. Blanchard, A.E. Gall, B.A. Gallaway, D. Hannay, B.A. Holladay, Hopcroft, J.T. Mathis, B.L. Norcross, J.M. Questel and S. Wisdom. (2013). The offshore northeastern Chukchi Sea, Alaska: a complex high-latitude ecosystem *Continental Shelf Research* 67:147-165. DOI:10.1016/j.csr.2013.02.002
- Gall, A.E., R.H. Day, and T.J. Weingartner (2013) Structure and variability of the marine-bird community in the northeastern Chukchi Sea. *Continental Shelf Research*, 67:96-115. DOI:10.1016/j.csr.2012.11.004
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- Norcross, B.L., S.W. Raborn, B.A. Holladay, S.T. Crawford, L.E. Edenfield, J. Priest, and R. Meyer. (2013). Northeastern Chukchi Sea demersal fishes and associated environmental characteristics, 2009-2010. *Continental Shelf Research*, 67:77-95. DOI:10.1016/j.csr.2013.05.010
- Questel, J.M., C. Clarke, and R.R. Hopcroft. (2013) Seasonal and interannual variation in the planktonic communities of the northeastern Chukchi Sea. *Continental Shelf Research*, 67:23-41, DOI:10.1016/j.csr.2012.11.003
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ATTACHMENT 7.4-1: ESSENTIAL FISH HABITAT FOR FISHERIES POTENTIALLY IMPACTED

Redacted

ATTACHMENT 7.6-1: STAKEHOLDER ENGAGEMENT PLAN

Redacted

ATTACHMENT 7.6-2: LETTERS OF SUPPORT

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Judith Judson, Commissioner
Massachusetts Department of
Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Date
30 July 2019

Your reference
Shell Mayflower

Our reference
P0040050

Page
1 | 1

Subject: Letter of Support for Mayflower Wind

Dear Commissioner,

Boskalis is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans and we are hopeful that we may be able to work with Mayflower in the future as they build their project and the offshore wind supply and value chain across Massachusetts and New England.

The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain. Boskalis hope to build on their longstanding business relationship with Shell and EDPR.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward.

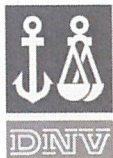
Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers, but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,


Richard Rijper
Director Boskalis Subsea Cables LLC



ABN AMRO BANK N.V.
IBAN: NL37ABNA0427488885
BIC: ABNANL2A

BTW nr. NL815211533B01

Kamer van Koophandel 24387623

July 30, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

As President of DEME Offshore US LLC, I am pleased to submit this letter of support for the proposal by Mayflower Wind LLC to sell the output from an offshore wind farm in the federally designated lease area south of Nantucket to the electricity customers of Massachusetts.

DEME Offshore US LLC is the U.S. subsidiary of a leading European offshore contractor focusing on wind farm installation, DEME Offshore.

The DEME Group draws from more than 140 years of experience with activities in over 90 countries and over 100 main vessels. DEME is a leader in offshore wind with over 1300 piles, 165 jackets, 130 cables, 500 scour protections, & 1500 WTGs installed. DEME focuses on promoting sustainable development, advocating a consistent partnering philosophy and prioritizing quality, health, & safety while making a difference through high-tech innovation.

DEME Offshore US LLC are pleased to have entered into a partnership with Mayflower Wind that will help create the workforce who can support the massive expansion of offshore wind development that we are on the verge of experiencing.

We are committed to work with Mayflower Wind to put in place a “global training bridge” that will prepare the local workforce to respond safely and productively to the needs of the market. Specifically, once certified, we will interview potential candidates for an assignment as an intern on one of our many installation vessels. This hands on experience in the construction of offshore wind farms will aid in creating US local workers who will have acquired, in advance of the start of construction, important skills and experience. Creating this opportunity will prepare the local workforce to be able to safely and productively execute the Mayflower project and the many offshore wind projects that are in the pipeline.

We also recognize the success and sustainability of such a program would require workers, in addition to having the opportunity to get hands-on experience in Europe, to qualify for local trade, training and safety certifications. To create a clear training pathway guiding our new workforce-related investments and build the necessary and important collaboration among local training providers, Mayflower Wind and DEME Offshore US LLC propose to work with the Massachusetts Clean Energy Center (MassCEC) to establish a task force including Massachusetts Maritime Academy (MMA) and Bristol Community College (BCC), trade unions, leaseholders, OEMs and supply chain representatives to develop.

Mayflower represents the entry into the nascent domestic offshore wind industry of Shell, one of the most experienced companies in the world regarding offshore energy production, and EDP Renewables, one of the leaders in large scale onshore renewable energy development. Both companies can draw upon experience in European offshore wind development – a space where DEME Offshore is a major player.

Thank you for considering this letter of support for the Mayflower Wind project. Should you need additional information, please contact me immediately at 781-738-5703.

Sincerely,

A handwritten signature in black ink that reads 'Sidney R. Florey' in a cursive script.

Sidney Florey
President, DEME Offshore US LLC
Florey.sidney@deme-group.com



Mayflower Wind Energy LLC
281 Albany Street
Cambridge, MA 02139

Attention: John Hartnett - Director

30th July 2019

Re: Letter of Support | Mayflower Wind Energy LLC, ("Mayflower") project in OCS lease area OCS-A 0521

Mayflower Wind - Joint Letter of Support

Dear Mr. Hartnett,

DEME Offshore USA, LLC and American partners Oceaneering International, Inc. & Crowley Marine Solutions, Inc. are pleased to provide this Letter of Support to Mayflower Wind Energy, LLC (Mayflower) in connection with your project (PPA) submission in OCS lease area OCS-A 0521

We intend to use our combined strengths to offer a Balance of Plant/(E)PCI proposal including a viable Jones Act compliant transport & installation solution for offshore wind in development in the Mayflower project. Our companies' shared values, our offshore project experience, and our focus on health and safety makes us the project partner of choice to deliver the project within the anticipated schedule.

Fostering economic growth in Massachusetts through local job creation is critically important to a successful renewable energy industry. We support building a Massachusetts based supply chain that serves the offshore wind industry. In case of contract award, as partner of Mayflower Wind, we will strive to maximize Massachusetts content by hiring locally, sourcing local manufacturing and professional services, and using Massachusetts as an operational base. Examples of local potential are: rock supply for scour protection, secondary steel fabrication, sea-fastening fabrication, vessel outfitting, suppliers, fuel, lodging, engineering, handling, storage, support vessels and tugs, crew vessels, local workforce, etc.

Offshore wind will be a significant part of Massachusetts's future as a leader in clean energy. We present the best combination of leading European installation expertise with well reputed U.S. based subsea services (Oceaneering) and U.S. based maritime transportation (Crowley) providers. We are eager to serve the offshore wind industry in Massachusetts and applaud your continued project pursuit.

Based on our historical working relationship with Shell & EDPR in the European Offshore Wind market we believe that the combination of these two experienced developers, supported by ourselves, assures that the Mayflower project will be delivered as planned. We have reviewed the provided data and technology choices made by Mayflower Wind Energy, LLC and we assess this plan as realistic and installable in the given construction timeline.

DEME -Oceaneering and Crowley have already taken serious steps and commitments to enter into US offshore wind market:

- Established a combined team, training and learning in Europe
- Opened an office in Boston as from June 2019
- Development of Jones Act feeder concept
- Investigation and engagements with local ports and pilots
- Investigation and engagements with local suppliers

We are ready and committed to further support Mayflower Wind Energy LLC in the development, sourcing, design, construction and timely delivery of the project.

We remain at your disposal for any information you may request.
Sincerely,



DEME Offshore USA Inc

Jan Klaassen
Director



Oceaneering International Inc

Nathaniel Spencer
Director Renewables



Crowley Marine Solutions Inc

Bruce Harland
Vice-President
Business Development



**EEW SPECIAL PIPE
CONSTRUCTIONS
GMBH**

EEW SPECIAL PIPE CONSTRUCTIONS GMBH · AM EISENWERK 1 · D-18147 ROSTOCK

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

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LETTER OF SUPPORT – MAYFLOWER WIND

Ansprechpartner/Contact person	Telefon/Phone	Datum/Date
Andreas Dietze	+49 381 81716-0	2 nd August 2019

Dear Commissioner,

EEW is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans and we are hopeful that we may be able to work with Mayflower in the future as they build their project and the offshore wind supply and value chain across Massachusetts and New England.

The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain. EEW is proud to have supplied Shell/NAM Monotowers and more than 43.000 tons of steel pipes for various Shell projects in the past decade.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward.

Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,

EEW Special Pipe Constructions GmbH

Andreas Dietze
- Managing Director -

Rechtsform GmbH, AG Rostock, HRB 9565 - USt.-Id.-Nr. / V.A.T.-No. DE 231629272
Erfüllungsort und Gerichtsstand: Rostock · Geschäftsführer/Directors: Heiko Mützelburg, Michael Hof, Andreas Dietze

Bank
Sparkasse Wittgenstein
Ostseesparkasse Rostock
Deutsche Bank Rostock
Commerzbank Siegen
HSBC Trinkaus & Burkhardt AG
UniCredit Bank - HypoVereinsbank

BLZ / bank code
460 534 80
130 500 00
130 700 00
460 800 10
300 308 80
370 200 90

Konto / account no.
35 469
200 000 110
2 066 355
400 531 400
370 093 008
24 258 041

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DE 57 3702 0090 0024 2580 41



July 29, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114
Subject: Letter of Support for Mayflower Wind

Dear Commissioner Judson,

Gulf Island Fabrication, Inc. is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans and we are hopeful that we may be able to work with Mayflower in the future as they build their project and the offshore wind supply and value chain across Massachusetts and New England.

The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain. Gulf Island Fabrication, Inc. has worked with Shell in various oil and gas projects in the past and looks forward to working with Mayflower Wind on future opportunities in the Massachusetts and New England areas.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward.

Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,

Bill Blanchard
Sr. VP of Business Development
Gulf Island Fabrication, Inc.



Kiewit

31 July 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Subject: Letter of Support for Mayflower Wind

Dear Commissioner,

Kiewit Offshore Services, Ltd. is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans and we are hopeful that we may be able to work with Mayflower in the future as they build their project and the offshore wind supply and value chain across Massachusetts and New England.

The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain. Our past experience with Shell includes:

2018 Shell Appomattox Topsides and Living Quarters	2003 Shell NaKika Semi-Submersible Integration
2017 Shell Appomattox Suction Piles	1998 Shell Enchilada Jacket and Piles
2016 Shell Stones II Suction Pile and Manifolds	1997 Shell Salsa Deck
2015 Shell Stones I Suction Pile and Manifolds	1997 Shell Ram-Powell TLP Integration
2013 Shell Olympus Topsides and Living Quarters	1997 Shell Ram-Powell Tendons and Piles
2013 Shell Olympus Drill Rig Integration	1996 Shell Mars TLP Integration
2009 Shell Perdido Topsides	1996 Shell Mars TLP Tendons and Piles
2008 Shell Perdido Caissons	1996 Shell Enchilada Jacket and Piles
2007 Shell Perdido Suction Piles	1993 Shell "Auger" TLP Tendons and Piles
2006 Shell Mars Hurricane Clamps	1992 Shell "JA" Platform Jacket
2005 Shell Mars Drill Rig Restoration	1988 Shell Bullwinkle Jacket and Piles

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward.

Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,

George Osgood; Area Manager

KIEWIT OFFSHORE SERVICES, LTD.
2440 Kiewit Road, Ingleside, TX 78362
(361) 775-4300 (361) 775-4431 - fax



LS Cable America, Inc.
222 Bruce Reynolds Blvd., Ste. 560, Fort Lee, NJ 07024
Tel: 240-277-8266, Fax: 201-503-8130

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Subject: Letter of Support for Mayflower Wind

July 30, 2019

Dear Commissioner,

LS Cable America (LSCA) is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. LSCA is a supplier of high voltage submarine and underground power cable systems. Senior management of Mayflower have met with us to explain Mayflower's plans and we are hopeful that we may be able to work with Mayflower in the future as they build their project and the offshore wind supply and value chain across Massachusetts and New England.

The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain. The LSCA team have worked closely with Mayflower to ensure the most advanced power cable technology is utilized in the most cost-effective fashion. LSCA are uniquely qualified to support the Mayflower offshore wind project having supplied and installed the submarine power cables for the Block Island OSW project.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward.

Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,

W. Wall

Bill Wall
Project Director, LSCA



July 23rd, 2019

Re: Support of Mayflowers Massachusetts 83 C bid response

To whom it may concern,

Marmen Inc. is one of the largest manufacturers of wind towers in North America. With plants in Trois-Rivières and Matane in Québec and Brandon in South Dakota in the United States, we serve the Canadian and US markets. Our locations in Canada make us well positioned to support offshore wind projects on the North-East Coast.

Over the past years we have seen the offshore wind market slowly developing. The recent offshore wind project announcements in New York and New Jersey speak to this as well. One of our strategies to serve the US offshore wind industry has been to investigate opportunities of establishing a facility on the US North-East coastline.

We are aware of the need for developers to demonstrate economic benefits for their projects in response to the Massachusetts 83 C bid response. On July 10, 2019, we had an initial conversation with Mayflower which was moderated by Isabel Kaubisch. The purpose of this call was to investigate options of how a potential collaboration may benefit both parties. We discussed ways to start looking into options of achieving a local supply chain in Massachusetts which may allow developers such as Mayflowers to source turbine components locally. This would in turn create long-term employment and tax benefits asked for by the State.¹

A new manufactory would require a mature line of orders to meet the large investment costs associated with constructing and operating a new manufactory. We are considering various approaches to achieve a cost-efficient local production. Our initial conversations with Brayton Point in Somerset, MA about leasing their facilities to set up a facility are ongoing.

We look forward to continuing our conversations with Mayflower as to how to support their project needs as well as with other interested parties.

Sincerely,

Patrick Pellerin
President

¹ We are also open to a conversation with the State as to how to best achieve a local supply chain industry. Due to the high costs of establishing a new manufactory, it is our understanding that likely only one new tower manufacturing facility may serve the entire New England region. Specific local incentives or a collaboration between the States in their calls for local investment may reduce the risk for individual suppliers.



Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114
Subject: Letter of Support for Mayflower Wind

Copenhagen
2019-07-30

Dear Commissioner,

ISC Consulting Engineers A/S (ISC) is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans, and we are currently working with Mayflower to perform early engineering on their project and the offshore wind supply and value chain across Massachusetts and New England.

The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain.

ISC has been in the offshore industry for more than 50 years and in offshore Wind for 20 years. Having performed the detail design for 33 offshore substations (hereunder the worlds first and the worlds largest) to offshore wind farms, ISC has designed more than half of the offshore substations fabricated worldwide.

ISC has before engaged and completed detailed engineering services for EDPR for the design of three offshore substations for the Moray East offshore wind farm project as a subcontractor to EDPRs main contractor and fabricator for the OSS. ISC is looking forward to continuing the cooperation on the Mayflower project.

Further during the last two months ISC has together with WSP US and Semco Maritime conducted a FEED study for the Mayflower offshore substation for Shell/EDPR. This FEED study will continue in the coming months.

Currently, ISC is (with WSP as subcontractor) finalizing the detailed design for the 800 MW ESP for Vineyard Wind offshore Wind Farm.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward.

Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers, but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,
ISC Consulting Engineers A/S

A handwritten signature in blue ink, appearing to read 'A. Thomsen', enclosed within a large, loopy blue oval.

Anders Thomsen

Chief Operating Officer, COO

Appendix: ISC offshore Substation Design Leaflet.



August 1, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114
Subject: Letter of Support for Mayflower Wind

Dear Commissioner Judson,

MHI Vestas Offshore Wind (MVOW) is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans and we are hopeful that we may be able to work with Mayflower in the future as they build their project and the offshore wind supply and value chain across Massachusetts and New England. The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain.

MVOW was founded in April 2014. Standing on the shoulders of giants, our company has quickly gained a leadership role in the market. Our two parent companies are global leaders in wind power and offshore ventures. The expertise and track records of Vestas Wind Systems A/S and Mitsubishi Heavy Industries, Ltd. inspire us and lead us forward. In addition, MVOW has a close relationship with both EDPR and Shell. For example, MVOW will be providing the offshore wind turbines for EDPR's 950 MW Moray East project in the UK and 25 MW WindFloat Atlantic project offshore of Portugal (of which EDPR is member of the consortium developing the project).

Furthermore, MVOW and Shell have worked together for over a decade including in the pioneering days of the development of offshore wind in the Netherlands. Together, we have ensured the successful delivery of the 108 MW Egmond aan Zee -the first large scale offshore wind farm built off the Dutch North Sea coast. And MVOW will also be supplying the offshore wind turbines for Shell's (part of the Blauwwind Consortium) 731 MW Borssele III/IV project in the Dutch North Sea.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation

as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward.

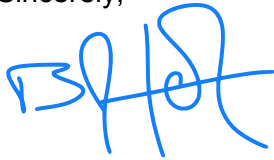
MVOW applauds the Commonwealth of Massachusetts's leadership in offshore wind energy. Because of this leadership, we have located our first U.S. office in Boston and are proud to serve as the supplier of offshore wind turbines for the Vineyard Wind project. We are in the process of hiring a number of local positions to support our efforts on Vineyard Wind and are excited to continue to grow our team in Massachusetts.

Furthermore, MVOW's goal is to eventually locate as much of our manufacturing in the U.S. as possible. In order to do this, we need a stable pipeline of projects and we see the Mayflower project as a potential piece of this pipeline. Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,

A handwritten signature in blue ink, appearing to read 'JFolsom', with a stylized flourish extending from the end.

Jason Folsom,
National Sales Director
MHI Vestas Offshore Wind

Louis Pasteurlaan 5
2719 EE Zoetermeer
The Netherlands

Tel: +31 (0)79 363 77 00

Date : 31 July 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114
U.S.

Subject : Letter of Support for Mayflower Wind

Dear Commissioner,

Seaway 7, part of the Subsea 7 group of companies is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans and we are hopeful that we may be able to work with Mayflower in the future as they build their project and the offshore wind supply and value chain across Massachusetts and New England.

The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain. Shell and Seaway 7 (Subsea 7) have a longstanding business relationship in the U.S as well as abroad and believe that we can optimize a unique global perspective with the importance of local insight.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward. We have identified several companies registered and located in the New England area that can form the core of our supply chain solution for this project. The state of Massachusetts and the surrounding New England area has several unique and strategic equipment and service providers that can truly benefit from the growth of this new industry.

Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers, but it also provides a great opportunity for developing and engaging local US suppliers and workforce. We would like to contribute to the execution of Mayflower's projects and in doing so will support them in achieving the objective of using and developing local resources, for the offshore wind market. We hope to be able to use this opportunity to increase our US based organization and workforce.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,



Steph McNeill
Chief Executive Officer
Seaway 7

Redacted

Att: Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street
Suite 1020
Boston
MA 02114

Name	Karsten Flensburg
Department	Offshore Sales SGRE OF S&PR S SM
Telephone	+45 3037 4126
Fax	+45 9942 2222
Email	karsten.flensburg@siemensgamesa.com
Date	1 August 2019

Subject: Letter of Support for Mayflower Wind

Dear Commissioner,

Siemens Gamesa Renewable Energy is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain their plans, and we are hopeful that we will work with Mayflower in the future. We welcome the opportunity to contribute to their project and the development of the offshore wind supply and value chain across Massachusetts and New England.

Siemens Gamesa Renewable Energy is the global market leader within the offshore wind turbine industry. Our experience reaches back to 1991, when we established the world's first offshore wind power plant. As of December 2018, we have designed, manufactured, installed, and commissioned over 3,100 offshore wind turbines with a combined operational capacity of more than 12.5 GW. Additionally, we currently service more than 55 GW of capacity across more than 28,000 wind turbine generators - both offshore and onshore - in 55 countries.

Shell and EDPR, the two companies undertaking the Mayflower joint venture, have highlighted their interest in developing and engaging local suppliers and a local workforce. Siemens Gamesa is currently working with EDPR and French energy group Engie on their 500 MW Noirmoutier and their 500 MW Le Tréport offshore wind power projects in France. These projects will each feature 62 Siemens Gamesa offshore wind turbines. A central element in the work done by our more than 6,000 dedicated offshore wind professionals is our constant drive to reduce the Levelized Cost of Energy from offshore wind power.

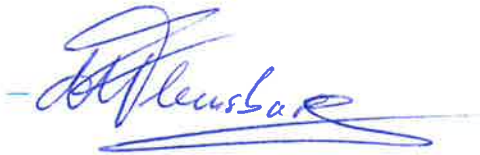
We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward.

Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers, but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,



Karsten Flensburg
Head of Sales Project Management



July 31, 2019

**Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114**

Subject: Letter of Support for Mayflower Wind

Dear Commissioner,

Siemens Industry, Inc. ("Siemens") is pleased to submit this letter of support for Mayflower Wind's ("Mayflower") proposal to supply clean and affordable energy to Massachusetts's businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans, and we are currently exploring opportunities with Mayflower on this project and with the offshore wind supply and value chain.

The two companies undertaking the Mayflower joint venture, Shell and EDP-R, have highlighted their interest in developing and engaging local suppliers and a local workforce as they build the supply and value chain. Siemens has a longstanding business relationship with both Shell and EDP-R and we intend to support the Mayflower team in their efforts to develop a local supply chain for this project which we believe will be vital moving forward to realize the ambitions of this new industry.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build the needed workforce and to foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward. Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

Siemens Industry, Inc is a U.S. subsidiary of Siemens AG, a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for nearly 170 years. With approximately 372,000 employees in 190 countries, Siemens reported worldwide revenue of \$92.0 billion in fiscal 2017. Siemens has been in the U.S. for more than 160 years and it is now the company's largest market. Siemens in the USA reported revenue of \$23.3 billion, including \$5.0 billion in exports, and employs approximately 50,000 people throughout all 50 states and Puerto Rico. In just the past 15 years, Siemens has invested approximately \$40 billion in America. Siemens is home to more than 60 manufacturing sites in the U.S.

The company invests more than \$1 billion in R&D annually and more than \$50 million in job training programs. For Siemens, the U.S. is also an extremely vital production location, one of the most important research centers, and a key base from which Siemens exports globally.

Our business unit Gas and Power EPC Transmission Solutions provides complex solutions and technologies for the economic, reliable and intelligent transmission of electrical power. Within offshore wind we are a leading contractor for the complex design, construction and commissioning of the high voltage AC/DC onshore and offshore substations, the so-called grid connection. Selected for over 20 projects, we are proud that over 11GW of offshore wind flows through Siemens grid connections.

We look forward to working with Mayflower as they build their team and project moving forwards. In the meantime please feel free to contact our Americas lead for Offshore Grid Connections, Kevin Pearce (+1 919-703-9488, kevin.pearce@siemens.com) if you have any questions.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely yours,

Matt Neal
VP, Transmission Solutions
Siemens Industry, Inc.

Matus Lusk
Director of Finance
Siemens Industry, Inc.



Sif OFFSHORE
FOUNDATIONS

Sif Netherlands b.v.

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T +31(0)475 385 777

E info@sif-group.com

I www.sif-group.com

Roermond, 30-07-2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114
Subject: Letter of Support for Mayflower Wind

Dear Commissioner,

Sif is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans and we are hopeful that we may be able to work with Mayflower in the future as they build their project and the offshore wind supply and value chain across Massachusetts and New England.

The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain. Sif has extensive relationships with both parent companies in the past.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward.

Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,

Michel Kurstjens, CCO

2 August 2019

Mayflower Wind Energy LLC

To: John Hartnett, President, Mayflower Wind Energy LLC
Ruth Perry, Marine Scientist, Shell

Dear John and Ruth:

Thank you for taking time during the past few weeks to advance our understanding of Mayflower Wind Energy priorities in responsible energy development, sustainable fisheries, ocean health and resilient coastal communities. Our team at Spherical|Analytics (S|A) shares the same vision, mission and values on many dimensions and levels with you and your teams at Mayflower Wind Energy.

At S|A, our approach is to partner with local public and private sector leaders, including their subject matter experts and risk/ finance partners, to deploy a new generation of digital trust platforms aimed at the intersections of energy security and climate resilience, of investment returns and community inclusion.

S|A software platforms enable partners to go far upstream in processes to capture data at the very beginning of workflows – where the machines meet the environment. We combine newly captured data with existing data sets and apply tests to ensure source validity and data incorruptibility so that all stakeholders can trust the data. These processes enable our platforms to deliver Asset-Class-Data to stakeholders.

Asset-Class-Data (ACD) is the key to building more trust among more stakeholders. Decisionmakers can use ACD with confidence in their existing decision support tools and create new tools that can then be considered Asset-Class-Analytics (ACA). ‘Asset-Class’ Data and Analytics collectively introduce, expand and elevate a shared fact-base on which stakeholders can make better decisions faster, and do better work more collaboratively.

It is our shared vision that drove our team to pursue inclusive, transparent, trusted collaboration in the development of the Marine DataBank/ Exchange, enabled by ACA and ACD. We have teamed up with multiple regional partners in the process, including The New Bedford Port Authority, Mass Technology Council, State Executive Office of Housing and Economic Development, Seaport Economic Council, UMASS/ SMAST, MGHPCC and, of course, the fleet.

We are thrilled to have the opportunity to support you and your teams, with Mayflower Wind Energy and Shell, and explore opportunities through your industry development efforts – RODA and ROSA.

Sincerely



Chris Rezendes

Van Oord Offshore Wind bv

Jan Blankenweg 2
4207 HN Gorinchem

PO Box 458
4200 AL Gorinchem
The Netherlands

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E info@vanoord.com
I www.vanoord.com

Date 01 August 2019

Direct
T +31 (0)88 8265100
E area.ow@vanoord.com

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Subject: Letter of Support for Mayflower Wind

Dear Commissioner,

Van Oord Offshore Wind B.V. is pleased to submit this letter of support for Mayflower Wind's proposal to supply clean and affordable energy to Massachusetts businesses and residents. Senior management of Mayflower have met with us to explain Mayflower's plans and we are hopeful that we may be able to work with Mayflower in the future as they build their project and the offshore wind supply and value chain across Massachusetts and New England.

The two companies undertaking the Mayflower joint venture (Shell and EDPR) have highlighted their interest in developing and engaging local suppliers and a local workforce as they build that supply and value chain. Van Oord and Shell have a long standing business relationship, having worked together on various offshore projects in the past decades.

We also appreciate and commend Mayflower's commitment to work with the Massachusetts Clean Energy Center to train and build needed workforce and foster entrepreneurial innovation as well as to take concrete efforts to give local companies a full and fair opportunity to compete for the many contracts that Mayflower will enter into as they move their project forward. Mayflower coming on to the scene not only creates greater price competition that will benefit electricity customers but it also expands the pool of buyers that companies like ours can look to as we develop and sell services for the offshore wind market.

We look forward to working with Mayflower as they build their team and move their project forward.

We appreciate your favorable consideration of Mayflower's proposal.

Sincerely,



Jeroen Kwakernaak
Area Director USA

Redacted



August 5, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Subject: Letter of Support for Mayflower Wind

Dear Commissioner,

My name is Rick Nolan and I am the owner and operator of Boston Harbor Cruises, (BHC) at 1 Long Wharf, Boston, Massachusetts, which is a long-standing fourth generation, small family business established by my grandfather in 1926.

In addition to being the largest passenger boat operator in New England, we have recently expanded into offshore commercial support services under the name of Blue Atlantic Offshore, to the emerging offshore wind energy industry which is just now becoming established along the US eastern seaboard,

In order to provide the best possible services to the developers of Mayflower Wind, we have recently established an exciting Joint Venture relationship with Europe's largest offshore wind farm SOV provider, ESVAGT.

Blue Atlantic ESVAGT, a joint venture partnership between Blue Atlantic Offshore, a subsidiary of Boston Harbor Cruises (USA) and ESVAGT (Denmark), is pleased to submit this letter of support for Mayflower Wind in relation to their proposal to supply clean and affordable energy to businesses and residents across Massachusetts.

The Mayflower joint venture (Shell and EDPR) have proactively engaged and transparently communicated to Blue Atlantic ESVAGT their interest in developing and engaging with local suppliers and communities at all levels in order to build a robust and sustainable supply chain capable of supporting their offshore wind development. Examples shared with us include, but are not limited to:

- Plans for the selection and employment of a suite of offshore construction and Operations and Maintenance ("O&M") vessels (ideally with ties to the Commonwealth) which are



OUR BOATS. YOUR PLAYGROUND.

uniquely suitable for the conditions found offshore New England and which employ leading- edge technologies such as dynamic positioning, motion compensated walk-to-work systems, hybrid battery propulsion, and remote performance monitoring, so as to ensure safe operations with minimal environmental footprint.

- Strong desire to develop and utilize the Port New Bedford, State Pier/ Waterfront Protection Pier at Massachusetts Maritime Academy and other South Coast/ Cape Cod & Islands waterfront locations as potential bases for O&M operations and related vessels.
- Promotion of the establishment of partnerships with Massachusetts learning institutions, including but not limited to Massachusetts Maritime Academy, Bristol State Community College, and UMass, for the training and later hiring of the uniquely qualified local mariners, technicians, and shore-based personnel required to support the offshore wind industry in Massachusetts and beyond.
- Interest in the development and potential utilization of shipyards, fabrication, manufacturing facilities located in Massachusetts for the supply, fabrication, or final assembly of certain wind farm components, vessels, and other works.

Blue Atlantic ESVAGT see Mayflower as a good partner for the Massachusetts and believe that Mayflower's inclusion as an offshore wind farm developer will bring enhanced competition which will help to spur economic development across the state.

As such, we appreciate your favorable consideration of Mayflower's proposal.

Sincerely,

A handwritten signature in black ink, appearing to read "Rick Nolan", with a stylized flourish at the end.

Rick
Nolan
Principal

Redacted

August 2, 2019

Mr. Seth Kaplan
Mayflower Wind Energy LLC
281 Albany Street
Cambridge, MA 02139

Dear Mr. Kaplan,

On behalf of Bristol Community College, I am pleased to submit this letter of support for the proposal by Mayflower Wind LLC to develop an offshore wind farm in the federally designated Massachusetts Wind Energy Area (MAWEA) off the coast of Martha's Vineyard. The MAWEA is the largest offshore wind area along the East Coast.

The Mayflower Wind project aligns with the state's clean energy economy and represents an opportunity for the Commonwealth to diversify its energy-generating capacity beyond conventional base-load hydropower, and land-based sources of electricity. Successful development of your project will create a wind farm in lease area OCS-0521 with turbines that would provide approximately 1.6 gigawatts (GW) of wind power capacity. The power generated could supply more than 680,000 average Massachusetts homes with clean energy each year. The Mayflower Wind project will benefit ratepayers throughout Massachusetts through access to affordable and sustainable energy from the robust winds in the Atlantic Ocean.

Bristol Community College is a comprehensive community college offering more than 130 career and transfer programs of study that lead to an associate degree in science, arts, applied sciences and certificates of accomplishment or achievement. Students are able to transfer to many baccalaureate colleges throughout the state and country from any of our four convenient campuses. Bristol is the only college in the United States with an approved certificate and associate degree program specifically in offshore wind energy. The college is augmenting its technical training programs with basic and advanced safety courses certified by the Global Wind Organization.

In 2019, Bristol was one of the largest community colleges in Massachusetts with more than 19,000 student enrollments. Each year since 2008, Bristol has led the Commonwealth in the number of certificates and degrees awarded; in 2019, Bristol awarded 1,390 certificates and degrees. In addition, researchers at Bristol, in collaboration with the University of Massachusetts, completed the first comprehensive assessment of the workforce needs and existing workforce pipeline associated with the development of an offshore wind industry in Massachusetts.

Pursuant to our discussions, the college is eager to collaborate with Mayflower Wind to produce graduates with the skills, knowledge and abilities to be productive employees with careers in renewable energy. In addition, Bristol is excited about the prospects of working closely with the

Mr. Seth Kaplan
Page Two

K-12 public schools to interest students at an early age about the career opportunities in offshore wind. We stand ready to collaborate with middle school and high school teachers to assist and mentor them to deliver meaningful instructional content about offshore wind technology to their students.

We applaud your efforts to create jobs in the local and regional economy. Mayflower Wind's decision to assemble and deploy your wind farm from ports in southeastern Massachusetts will create hundreds of construction and logistics jobs for area residents. Equally important is your decision to utilize regional ports as the base for your operation and maintenance facilities, crews and vessels. This will provide residents of the region with access to well-paying, full-time jobs for the next thirty years and beyond.

We wish you success in your quest to provide residents and business in the Commonwealth of Massachusetts with affordable and clean, renewable energy from your proposed offshore wind farm. Should you need any additional information, please contact me directly via email at laura.douglas@bristolcc.edu or via telephone at 774.357.2184.

Sincerely,



Laura L. Douglas, President

cc:

Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Unitil Service Corp.
6 Liberty Lane
Hampton, NH 03842-1720

Eversource Energy
247 Station Drive, NE220
Westwood, MA 02090

National Grid
100 East Old Country Road
Energy Procurement, 2nd Floor
Hicksville, NY 11801

BRISTOL COUNTY

CHAMBER OF COMMERCE

Voice of Business Since 1911

200 Pocasset Street, Fall River, MA 02721 • Tel. 508-676-8226 • Fax 508-675-5932
www.bristolcountychamber.org

July 15, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

As President of the Bristol County Chamber of Commerce, I am pleased to submit this letter of support for the proposal by Mayflower Wind LLC to develop an offshore wind farm in the federally designated lease area near the coast of Martha's Vineyard.

This Chamber worked closely with the State legislative delegation to secure passage of the Energy Diversity Act of 2016. We remain committed to creating this important emerging new industry sector because of the potential it represents to the member businesses in the Bristol County Chamber of Commerce.

Mayflower Wind's proposed project represents great potential for collaboration with this Chamber of Commerce and our members. The Bristol County Chamber is prepared to co-host "Meet the Buyer" events to introduce our members to the various opportunities associated with offshore wind. We want to facilitate business-to-business relationships to expand the regional supply chain.

The potential use of ports in Fall River and Somerset is an opportunity to develop a regional supply chain in Massachusetts for Mayflower Wind and future wind farm developers. This project will diversify the Commonwealth's electricity generation by providing clean, sustainable energy from offshore wind. That translates into affordable and stable rates for homeowners and businesses.

In addition, wind energy projects like the Mayflower Wind project can leverage the freight rail connectivity that the South Coast rail project, now under construction can bring to Fall River. In the long run, the more competitors there are building wind projects off our coast the greater the chance that a developer, a manufacturer or a contractor will utilize a currently uncommitted waterfront industrial facility like Weaver's Cove on the Fall River waterfront – and the advent of restored rail service to Weaver's Cove will help make that happen.

We welcome Mayflower Wind's interest in fostering and expanding technology innovation in the greater Fall River region. Our Chamber will collaborate with Mayflower Wind to foster innovation in areas such as remote undersea operating vehicles, electronic sensors and other promising technologies.

2017 Co-Title Sponsors

**Saint Anne's
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BayCoast
BANK

Finally, the Bristol County Chamber is eager to collaborate with the regional school systems and the MassHire Career Centers to prepare a workforce with the technical skills and safety training certifications required for careers in offshore wind.

Thank you for considering this letter of support for the Mayflower Wind project. Should you need additional information, please contact me directly at 508-676-2866.

Sincerely,

A handwritten signature in dark ink, appearing to read "Michael O'Sullivan", with a long, sweeping horizontal line extending to the right.

Michael O'Sullivan



July 25, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

Please accept this letter of support for the proposal by Mayflower Wind LLC to develop an offshore wind farm in the federally designated Massachusetts Wind Energy Area (MAWEA) off the coast of Martha's Vineyard.

As Executive Vice President of the Bristol County Economic Development Consultants (BCEDC), I have met with senior representatives from Mayflower Wind to discuss their proposed project and to explore potential collaborations to advance the project. Our organization is particularly interested in collaborating with Mayflower Wind to expand innovation and technology development in the greater Fall River community.

It is clear that the Mayflower Wind project aligns with state's goals for a clean energy economy here in the Commonwealth. This project is an opportunity for Massachusetts to diversify its energy-generating capacity beyond conventional base load hydropower, and land-based energy production.

In addition, wind energy projects like the Mayflower Wind project can leverage the freight rail connectivity that the South Coast rail project, now under construction, can bring to Fall River. In the long run, the more competitors there are building wind projects off our coast the greater the chance that a developer, a manufacturer or a contractor will utilize a currently uncommitted waterfront industrial facility like Weaver's Cove on the Fall River waterfront – and the advent of restored rail service to Weaver's Cove will help make that happen.

The BCEDC promotes regional job creation. We support Mayflower Wind's willingness to consider ports in southeastern Massachusetts for key elements of its project. Our organization is prepared to assist Mayflower Wind to develop a regional supply chain in Massachusetts and to collaborate with Mayflower Wind to create a vibrant offshore wind industry in the Commonwealth.

Successful and complete development of the Mayflower Wind project will generate as much as 1.6 gigawatts (GW) of wind power capacity. That would provide more than 680,000 average Massachusetts homes with clean energy each year. The Mayflower Wind project will benefit ratepayers throughout Massachusetts providing affordable and sustainable energy from the robust winds in the Atlantic Ocean.

Thank you for this opportunity to offer my support for the proposed Mayflower Wind project. Should you need to discuss this letter in more detail, please do not hesitate to contact me at 508-324-2620.

Sincerely,


Kenneth Fiola, Jr.

Executive Vice President

139 South Main Street, Suite 400, Fall River, MA 02721-5306

508.324.2620

508.675.1497

Fax: 508.677.2840



July 19, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

On behalf of our 1,237-member businesses and organizations, I am pleased to lend our support for the proposal by Mayflower Wind LLC to develop an offshore wind farm in the federally designated lease area south of Nantucket.

Understanding that for coastal Massachusetts, the environment is our economy, this Chamber has worked closely with the State Legislature on development of marine spatial planning policy and legislation, including the 2008 Ocean Management Plan and Energy Diversity Act of 2016. Building on the initial power purchase agreements signed in 2018, this RFP represents growth in an emerging industry that will end our region's long-held designation as the terminus of the energy supply pipeline in the United States.

Massachusetts is well positioned as a major player in the nation's emerging offshore wind industry. With this comes an opportunity to recapture some of the billions of dollars currently spent on energy imports, grow regional energy production and build new industries that will create meaningful jobs and economic opportunities for the Commonwealth, while at the same time reducing carbon emissions.

Mayflower Wind's proposed project, with its focus on fostering innovation in partnership with the Massachusetts Clean Energy Center and local organizations like our Chamber, represents a real opportunity to build the Blue Economy that we firmly believe is the future of our region.

As detailed in the recent *"Cape Cod Blue Economy Project: A Call to Action"* issued by the Chamber in partnership with the Commonwealth, a vibrant maritime and technology economy is not just the foundation of much of our current economy, it is our clearest path to building a prosperous and durable future. Projects like Mayflower's that bring to the table innovative global energy leaders like Shell and EDPR, the owners of Mayflower, help to build that future.

As the Blue Economy Project report details, we have a robust marine technology sector in the region literally building the future in the form of advanced equipment like Autonomous Underwater Vehicles. Bringing companies with deep commitments to fostering and using advanced technology to the region will allow this critical sector to grow and supporting well paying, year-round careers for Massachusetts residents.

Sincerely,

Wendy K. Northcross, CCE
Chief Executive Officer



COMMONWEALTH OF MASSACHUSETTS
THE GENERAL COURT

STATE HOUSE, BOSTON 02133-1053

August 1, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

We write to you today in support of the proposal by Mayflower Wind LLC to develop an offshore wind farm in a federally designated lease area south of Nantucket.

As legislators representing Cape Cod, Martha's Vineyard, and Nantucket, we are excited to see projects like Mayflower seeking to transition Massachusetts' energy systems to sustainable sources and follow through on the promises of the Energy Diversity Act, enacted in 2016.

Companies like Mayflower and its investors are taking action to translate the policy mechanisms launched from Beacon Hill into tangible results. As a state with some of the strongest and most consistent offshore winds in the country, Massachusetts is uniquely positioned to help support and foster this emerging industry.

We were pleased to learn about Mayflower Wind's focus on fostering innovation and investing in port infrastructure in partnership with the Massachusetts Clean Energy Center and local governments and organizations. This is an approach that we applaud and believe will help to build a firm foundation for the future of our coastal communities.

Thank you for your consideration of the Mayflower Wind Project and please do not hesitate to reach out to our offices with any questions.

Sincerely,

A blue ink signature of Dylan Fernandes, written in a cursive style.

Dylan Fernandes
State Representative
Barnstable, Dukes, and Nantucket District

A blue ink signature of Julian Cyr, written in a cursive style.

Julian Cyr
State Senator
Cape and Islands District



July 19, 2019

Dear Massachusetts 83CII Offshore Wind Soliciting Parties:

On behalf of the Environmental League of Massachusetts I appreciate the opportunity to submit this letter in support of the offshore wind industry. The urgent challenge to transition away from fossil fuels to a clean energy future demands ambitious solutions. I am encouraged by the potential for responsibly developed offshore wind power to help meet energy future needs.

For years ELM has worked closely with a wide range of corporate partners when we see opportunities for business practices to support environmental protection. ELM is particularly pleased to work in close concert with the offshore wind industry because we believe that offshore wind represents the single largest opportunity to reduce carbon emissions from the energy sector.

A robust market and competitive bidding are critical elements in the development of an offshore wind industry. These elements are needed in order to achieve the maximum benefits for Massachusetts, both environmentally and economically. ELM encourages the Soliciting Parties to work expeditiously to ensure that Massachusetts continues to provide a solid marketplace for offshore wind, today and into the future.

Thank you and we look forward to working together to ensure responsibly developed offshore wind power plays a major role in the Commonwealth's energy future.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric R. Wilkinson", is written over a light blue rectangular background.

Eric Wilkinson
General Counsel and Director of Energy Policy



FALL RIVER REDEVELOPMENT AUTHORITY

KARA O'CONNELL
Chair

August 5, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

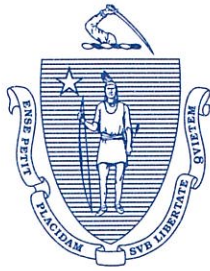
On behalf of the Chairman and Board of the Fall River Redevelopment Authority, it is my pleasure to submit this letter of support for the proposed Mayflower Wind development in the federal lease area OCS-0521. There is support for the Mayflower Wind project to expand the renewable offshore wind energy industry in our region and for the benefit of all Massachusetts residents.

The Redevelopment Authority has begun to actively work with developers and Tier 1 suppliers to provide port facilities as well as industrial rail access for offshore wind energy projects. We see this industry as an opportunity to unlock new and additional economic development in our City. The benefits of this new source of energy extends well beyond port facilities in our City and in neighboring Somerset which we believe will play an integral role supporting Tier-2 and Tier-3 supply chain companies to assemble, deploy and maintain wind farms in the Atlantic. In the long-term, the decision to utilize regional ports will provide residents of greater Fall River access to well-paying, full-time jobs for the next thirty years.

Wind energy projects like Mayflower Wind's can leverage the freight rail connectivity that the South Coast rail project, now under construction. The more competitors there are building wind projects off our coast, the greater the chance that a developer, a manufacturer or a contractor will utilize currently uncommitted waterfront industrial within our Waterfront Urban Renewal Plan recently approved by the MA Department of Housing and Community Development. A result of the initial discussion with Mayflower Wind, the Redevelopment Authority is prepared to welcome Mayflower and the company's support for workforce development and K-12 education initiatives. We look forward to being a part of a growing industry which is growing in Southeastern Massachusetts.

Very truly yours,

Maria Marasco, Esq.
Economic Development Director



The Commonwealth of Massachusetts

HOUSE OF REPRESENTATIVES
STATE HOUSE, BOSTON 02133-1054

REP. PATRICIA A. HADDAD

5TH BRISTOL DISTRICT

TOWN OFFICE BUILDING
140 WOOD STREET
SOMERSET, MA 02726
TEL (508) 646-2821

Speaker Pro Tempore

ROOM 370, STATE HOUSE
TEL. (617) 722-2600
FAX (617) 722-2313

Committees:
Rules & Ethics

July 15, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

I am pleased to submit this letter of support for the proposal by Mayflower Wind Energy LLC to develop an offshore wind farm in a federally designated lease area south of Nantucket.

My legislative colleagues and I are delighted to see projects like Mayflower working to realize upon the promise of the Energy Diversity Act that we enacted in 2016.

Companies like Mayflower (and its investors, Shell and EDPR) are taking action to translate the policy mechanisms we have launched from Beacon Hill into a new industry – an industry that can be the next great growth opportunity for the Commonwealth generally and the South Coast in particular.

I was pleased to learn about Mayflower Wind's focus on fostering innovation and investing in port infrastructure in partnership with the Massachusetts Clean Energy Center and local governments and organizations. This is an approach that I applaud and believe will help to build a firm foundation for the future of our coastal communities.

Thank you for considering this letter of support for the Mayflower Wind project. Should you need additional information, please contact me at 617-722-2600.

Sincerely,

Patricia A. Haddad, 5th Bristol
Speaker Pro Tempore of the House of Representatives



August 6, 2019

Dear Mayflower Wind Energy,

It is with enthusiasm and commitment that we write to express MARACOOS' and NERACOOS' interest in a data sharing partnership with you.

MARACOOS (Mid-Atlantic Regional Association Coastal Ocean Observing System) and NERACOOS (Northeastern Regional Association of Coastal Ocean Observing Systems) are 501(c)3 associations of universities, government agencies, and private sector entities that power understanding and prediction of ocean and coastal systems along the Atlantic Coast—from North Carolina to Maine—to save lives, protect livelihoods, and boost the economy. As part of the U.S. Integrated Ocean Observing System (US IOOS), and federally-certified regional associations, MARACOOS and NERACOOS collect, integrate, manage, and distribute data according to best practices, as identified by the National Oceanic and Atmospheric Administration. As a certified regional association under U.S. IOOS and NOAA, all MARACOOS and NERACOOS data disseminated directly to partners in government and the private sector—or via our flagship data portals—meet federal standards for data quality assurance and quality control.

Further, the offshore wind energy sector, as well as the sectors that intersect with offshore wind development, including maritime commerce and safety, fisheries, water quality, and extreme weather, are important thematic focus areas. Our partners along the Atlantic coast, including the state-led regional partnerships, MARCO (Mid-Atlantic Regional Council on the Ocean) and NROC (Northeast Regional Ocean Council), provide a broad variety of services and expertise to the developing wind energy sector.

In light of the existing strong relationship between Shell and US IOOS, we look forward to strengthening our partnership with you to share data and expertise that supports the development of wind power in Massachusetts and the leveraging of data to benefit the safety, economy, and overall well-being of the citizens in the state and the region.

Sincerely,

A handwritten signature in blue ink, appearing to read "Gerhard F. Kuska".

Gerhard F. Kuska, PhD
Executive Director, MARACOOS

A handwritten signature in blue ink, appearing to read "Ru Morrison".

Ru Morrison, PhD
Executive Director, NERACOOS



August 5, 2019

John Hartnett
President
Mayflower Wind Energy LLC
281 Albany Street
Cambridge, MA 02139

Dear John,

This letter confirms the organizational commitment of the Anderson Cabot Center for Ocean Life at the New England Aquarium to continue work toward a formal partnership with Mayflower Wind Energy to support scientific research and understanding of ecosystem dynamics in the wind lease areas including, but not limited to North Atlantic right whales, fisheries of commercial and recreational importance, sea turtle conservation, spatial-temporal modeling, and communications regarding renewable energy.

The New England Aquarium is a global leader in marine science and conservation. It is the authority in the region for ocean conservation and is renowned for its efforts to protect the critically endangered North Atlantic right whale. In addition, the Aquarium brings decades of expertise and experience working on fisheries and turtle ecology and a rich history of working collaboratively with a network of regional industry partners.

With more than 1.4 million visitors a year, the Aquarium is the most visited cultural attraction in Boston and a major public education resource for the region. Building on our 50-year legacy of protecting the blue planet and advocating for vital and vibrant oceans, the Anderson Cabot Center for Ocean Life, established in 2016, leads the way in cutting-edge applied marine research and data-driven conservation, offering practical solutions to mitigate human impacts on our ocean.

Our engagement with Mayflower Wind Energy over the past year is a continuation of our expertise, role, and commitment to ensure that any development in offshore environments is done with sound scientific basis that enables decision making, responsive ocean planning, and mitigation. Our familiarity and experience working with wind energy developers to produce mitigation plans is unparalleled.

It is our intent to work together and collaboratively over the lifetime of the wind energy projects near Martha's Vineyard to mitigate animal and habitat impacts from project siting, design, construction, maintenance, and decommissioning and to contribute to the broader scientific knowledge base.

Sincerely,

Vikki N. Spruill
President and CEO

cc: John Mandelman, Ph.D., Vice President and Chief Scientist, Anderson Cabot Center for Ocean Life



Northeastern University
College of Engineering

July 23, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

Office of the Dean

230 Snell Engineering
Center
260 Huntington
Avenue
Boston, MA 02115

617.373.5847
fax: 617.373.8504
northeastern.edu/coe

Northeastern University has been engaged in supporting the development of the U.S. offshore wind industry for nearly a decade. This includes leading many multi-year, multi-institutional projects from organizations like the National Science Foundation and the Massachusetts Clean Energy Center, hosting and organizing international meetings like the 2019 French-American Innovation Day on Floating Wind Energy Technology, and guiding national legislation on offshore wind energy through coordination with the U.S. House Sub-committee on Energy. In addition, Northeastern is a founding member of POWER-US and the Massachusetts Research Partnership.

Mayflower Wind, LLC has reached out to us and other Massachusetts research institutions to inform us that they will invest \$5 M over 10 years following the award of a PPA in Massachusetts – through a fund administered by MassCEC - to support and augment existing research efforts like POWER-US and the Massachusetts Research Partnership in Offshore Wind. This would enhance the offshore wind research landscape in Massachusetts and support our ongoing efforts to establish Massachusetts as a key intellectual hub of the U.S. offshore wind industry. We applaud this laudable approach.

We are very pleased that Mayflower brings the entry of Shell and EDP Renewables into the nascent domestic offshore wind industry. Their experience and qualifications position them well to support the low carbon energy transition. The fact that this team is reaching out to academic institutions at the forefront of offshore wind development is encouraging. The integration of engineering and science with policy and economics, and successful partnerships between universities, industry, and government are essential as we all work together to build this critical sector in the new clean energy industry.

Thank you for considering this letter of support for Mayflower Wind's approach to advancing Massachusetts leadership in the offshore wind sector. Should you need additional information, please contact Professor Andrew Myers (atm@neu.edu; 617-373-3813).

Sincerely,

A handwritten signature in black ink, appearing to read "J. Isaacs".

Jacqueline A. Isaacs
Interim Dean, College of Engineering

August 2, 2019

John Hartnett
President, Mayflower Wind Energy LLC
281 Albany Street
Cambridge, MA 02139

Dear John,

Thank you for your recent visit to the SeaAhead Bluetech hub. We are enthusiastic about our potential partnership, and the ability to create a transformational innovation cluster surrounding the offshore wind sector. We understand that execution of the partnership agreement described below is contingent upon Mayflower Wind securing a PPA in Massachusetts; we wish you well with your upcoming bid.

We formed SeaAhead because we believe the timing is now ideal to promote more venture-based innovation tied to the ocean, particularly in the areas of offshore wind, ports and shipping, which are all interrelated. The founding team has a maritime, cleantech, startup, corporate venture capital, management consulting and economic development background. We believe Boston's vibrant tech-driven venture ecosystem is the ideal global location to catalyze a new cluster, based on a number of factors:

- As in other industry verticals, **digitization**, driven by steadily declining costs for new technologies, offers new opportunities to the offshore wind sector. Entrepreneurs working on new technologies in this space range from those applying 'Internet-of-Things' sensors in the ports, to new data analytics techniques for optimizing farm output, to virtual reality for spatial planning and workforce training.
- A plethora of new regulations are coming into play for the global maritime sector. Boston arguably has emerged as the global leader in **cleantech** innovation. A structure to better connect these two trends can result in new solutions for NOx, PM, SOx and GHG emissions. Hence, port investments can lead to new resilient working class jobs, yet reduce criteria emissions. Further, working with other organizations, such as our partner, the New England Aquarium, can result in new solutions to tackle such difficult issues as marine noise, which is a core challenge during farm construction.
- Boston is a clear leader in **robotics**, but there are also defense-related marine robotics capabilities in Southern New England. The region's leadership in this sector can be brought to bear for the offshore wind industry with applications ranging from better data collection to operations & maintenance.

- Ability of new technology and business models to reduce the sense of competition of offshore wind with other ocean uses, such as fisheries, into collaborative opportunities with the introduction of new fishing / farming methods.

SeaAhead has made significant progress since our incorporation last year. We continue to build out a regional bluetech cluster working closely with relevant industry stakeholders and are launching new programs to catalyze venture innovation tied to ocean sustainability. We have also begun creating linkages for this cluster out into similarly focused ecosystems both in the US, in Seattle and LA, and abroad in places such as Norway, Canada and Singapore.

Key milestones since our incorporation in May 2018 include:

- Attendance of over 650 attendees from the vibrant Boston venture ecosystem attended our Bluetech launch last September in Cambridge MA
- Partnership with CIC to open Boston's first bluetech innovation hub at 50 Milk Street in January 2019. As of this date, of the 8 co-working companies, 3 of them are directly offshore wind-related and 2 others are business consultants/strategists whose work includes startups related to offshore wind
- Execution of a Partnership MOU with the New England Aquarium. We believe that strong connections with academia and research organizations are a key to ensuring that new developments are validated for their impact. Our first effort together is called the Venture Fellows Program
- Completed our first industry Leadership Series with our Maritime Innovation event. Here, we brought in maritime executives from across the country and together with relevant startups and the Boston venture ecosystem. Among the topics discussed, key opportunity areas that tie offshore wind and the shipping/ports communities together were on the agenda, including autonomous offshore drones for data collection, blockchain smart contracts, and a systems approach to maritime decarbonization through the use of hydrogen, including fuel cells and offshore wind.

In 2019, we will continue to expand the hub through startup membership, growing our mentorship pool and bringing in more blue economy coworking tenants. Our events schedule is designed to bring together disparate stakeholders and these range from small bi-weekly brown bag lunches to the Global Bluetech Conference we are planning for October. We also look forward to formally launching the Venture Fellows program.

In short, SeaAhead is growing and continuing to bolster our position that Massachusetts should be a global leader in this new innovation sector. We'd be delighted if Mayflower Wind would join us in this effort. SeaAhead proposes the following means for engagement:

Building and Promoting the Northeast Bluetech Cluster

Mayflower Wind's involvement enables SeaAhead's work in growing the competitiveness of this region in the blue economy. We are starting to see our hub as a landing spot for European offshore wind supply chain businesses and will look to grow that role. Our efforts are also focused on growing the next generation of relevant companies as we continue to

expand our startup support efforts by adding new mentors, having workshops and facilitating connections of new ventures with potential customers and capital sources.

The team also has deep roots in Southern New England. Mark Huang was recently the Economic Director for the City of Providence and has spent a significant time in New Bedford, including being part of the initial ideation team with UMass Dartmouth for the Southern New England blue economy corridor. Jason Kelly, Chairman of SeaAhead, is a principal of Moran Shipping with strong ties in the regional maritime sector. The founding team at SeaAhead understands fully the potential of the offshore wind sector to grow resilient working-class jobs for all of New England.

We believe that new venture development in this sector will support the growth of both local STEM and working-class jobs. It can also serve as a source of potential export value, such as through the connection to Mayflower's parent organizations, Shell and EDPR.

As a partner in this effort, we would prioritize Mayflower Wind's exposure to the relevant maritime and marine community. With regard to the Greater Boston ecosystem, the SeaAhead team can present innovation challenges and opportunities at events both large and small such as our Brown Bag Lunches, and Bluetech & Beer Night.

Mayflower Wind as a Founding Partner of our new Innovation Scout Teams

Through our conversations, you have described wanting to find a structured way to get exposure to bluetech startups that align with your near-term strategic goals and that may be able to contribute in bringing your US project pipeline to successful operation at aggressive price targets. We believe that our new program, Innovation Scout Teams, would be a way to use collaborative and ongoing structured format for connecting our partners to new ventures. Here, offshore wind and maritime-related players would join together to provide input on the priority challenge areas in which they would like to see innovation applied. SeaAhead, on a quarterly basis, will report back on relevant startups that could help address these challenges and provide an opportunity for a curated set of entrepreneurs to present their approaches. We would like to invite Mayflower Wind to be a founding member of this new program. Through this:

- SeaAhead will act as a focal point for Mayflower Wind's work with the Greater Boston venture community to include helping to engage and screen startups seeking to work with Mayflower
- SeaAhead has a global network and can be a bridge to other relevant bluetech centers of excellence, screening companies in those locations that might have relevance to challenges identified by our partners and bringing them to Massachusetts.
- At a minimum, the expected outcome would be that Mayflower Wind would have much improved market intelligence of the emerging technologies that could be relevant.

- An ideal outcome would be that Mayflower Wind decides to engage with one or more startups identified through the program. In this case, SeaAhead can assist on structuring engagements.

Support of the Venture Fellows Program

SeaAhead and the New England Aquarium recently announced the Venture Fellows program as the first effort in our partnership together. This grant program is designed to create an on-ramp for entrepreneurs to pursue startups related to ocean sustainability. It will provide financial and capability-building support through the concept development stage, where commercial funding is difficult to secure. Startups that have an offshore wind application will be a focus sector for this incubation program. More details about the program are included in the attachments.

*

SeaAhead would propose a partnership of \$125,000 per year over the next three years.

- Building the Northeast Bluetech Cluster and the Innovation Scout Team efforts: \$100,000 per year
- Venture Fellows Program: \$25,000 per year

In the future, we also see a variety of ways to scale our work together, including placing specific challenges and prizes out into the ecosystem based on the gaps that we see through our Innovation Scout teams work.

Together, we will build a catalyzing force for the Northeast's Blue Economy.

Best,

A handwritten signature in black ink that reads "Alissa Peterson". The signature is written in a cursive, flowing style.

Alissa Peterson
Co-Founder and Executive Director
SeaAhead, Inc.



July 15, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

As President of the SouthCoast Chamber in New Bedford, Massachusetts, I am pleased to submit this letter of support for the proposal by Mayflower Wind LLC to develop an offshore wind farm in the federally designated lease area near the coast of Martha's Vineyard.

This Chamber worked closely with the State legislative delegation to secure passage of the Energy Diversity Act of 2016. We remain committed to creating this important emerging new industry sector because of the potential it represents to our members and for economic development of our region.

Mayflower Wind's proposed project represents great potential for collaboration with this Chamber of Commerce and our members. The SouthCoast Chamber, along with our partner the Bristol County Chamber, is prepared to co-host "Meet the Buyer" events to introduce our members to the various opportunities associated with offshore wind. We want to facilitate business-to-business relationships to expand the regional supply chain.

The potential use of ports in New Bedford, Fall River and Somerset is an opportunity to develop a regional supply chain in Massachusetts for Mayflower Wind and future wind farm developers. This project will diversify the Commonwealth's electricity generation by providing clean, sustainable energy from offshore wind. That translates into affordable and stable rates for homeowners and businesses.

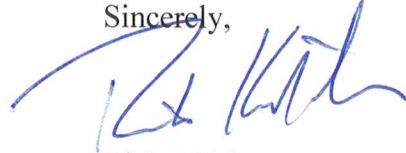
In addition, wind energy projects like the Mayflower Wind project can leverage the freight rail connectivity that the South Coast rail project, now under construction, can bring to Fall River and New Bedford. In the long run, the more competitors there are building wind projects off our coast the greater the chance that a developer, a manufacturer or a contractor will take advantage of the incredible New Bedford working waterfront as well as utilize currently unused or underused facilities in Fall River.

We welcome Mayflower Wind's interest in fostering and expanding technology innovation in the greater South Coast region. Our Chamber will collaborate with Mayflower Wind to foster innovation in areas such as remote undersea operating vehicles, electronic sensors and other promising technologies.

Finally, the SouthCoast Chamber is eager to collaborate with the regional school systems, Bristol Community College and the MassHire Career Centers to prepare a workforce with the technical skills and safety training certifications required for careers in offshore wind.

Thank you for considering this letter of support for the Mayflower Wind project. Should you need additional information, please contact me directly at 508-999-5231.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Rick Kidder', with a large, sweeping initial 'R'.

Rick Kidder
President/CEO

July 29, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson:

Tufts University has been engaged in supporting the development of the U.S. offshore wind industry for more than a decade. This includes leading many convening initiatives to bring together academic researchers, national laboratories, agencies, and industry from across the U.S. and internationally. Our support for offshore wind development is informed by our inter-disciplinary and deep engagement of climate and energy policy as well as our perspective as engineers and educators working to build the economy and the infrastructure of the future.

Mayflower Wind, LLC has reached out to us and other Massachusetts research institutions to inform us that they will invest \$5 M over 10 years following the award of a PPA in Massachusetts – through a fund administered by MassCEC - to support and augment existing research efforts like POWER-US and the Massachusetts Research Partnership in Offshore Wind. This would enhance the offshore wind research landscape in Massachusetts and support our ongoing efforts to establish Massachusetts as an intellectual hub of the U.S. offshore wind industry. We applaud this laudable approach.

The fact that the off-shore industry is reaching out to academic institutions at the forefront of offshore wind development to promote research is encouraging. The integration of engineering and science with policy and economics, and successful partnerships between universities, industry, and government are essential as we all work together to build this critical sector in the new clean energy industry.

Thank you for considering this letter of support to advance Massachusetts leadership in the offshore wind research. Should you need additional information, please contact Professor Eric Hines (Eric.Hines@tufts.edu; 617-939-6686).

Sincerely,



Jianmin Qu
Karol Family Professor
Dean of Engineering



UNIVERSITY of
MASSACHUSETTS

Engineering Laboratory Building
Box 32210
Amherst, MA 01003-2210

Department of Mechanical
and Industrial Engineering

Tele: 413.545.2505
Telefax: 413.545.1027

Wind Energy Center

July 26, 2019

Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

The Wind Energy Center at UMass Amherst has been engaged in supporting the development of the U.S. offshore wind industry for more than 20 years. This has included serving in an advisory role and honest broker in its early days and participating in national and international research, education and standards development throughout this period.

Mayflower Wind, LLC has reached out to us and other Massachusetts research institutions to inform us that they will invest \$5 million over 10 years subsequent to the award of a power purchase agreement in Massachusetts – through a fund administered by MassCEC - to support and augment existing research efforts such as POWER-US and the Massachusetts Research Partnership in Offshore Wind. This would enhance offshore wind research activities in Massachusetts and support our ongoing efforts to establish Massachusetts as a key intellectual hub of the U.S. offshore wind industry. We applaud this approach.

We are very pleased that Mayflower brings the entry of Shell and EDP Renewables into the nascent domestic offshore wind industry. Their experience and qualifications position them well to support the transition to a low carbon future. That this team is reaching out to academic institutions at the forefront of offshore wind development is encouraging. The integration of engineering and science with policy and economics, and partnerships between universities, industry, and government is essential to build this sector in the new clean energy economy.

Thank you for considering this letter of support for the Mayflower Wind's approach to advancing Massachusetts leadership in the offshore wind sector. Should you need additional information, please contact me.

Sincerely,

A handwritten signature in black ink that reads 'James F. Manwell'.

James F. Manwell, Ph.D
Professor and Director



UNIVERSITY OF MASSACHUSETTS BOSTON

100 Morrissey Boulevard
Boston, MA 02125-3393
P: 617.287.5000
www.umb.edu

August 1, 2019

The Honorable Judith Judson
Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

Dear Commissioner Judson,

The **University of Massachusetts Boston** has been engaged in supporting the development of the U.S. renewables sector, including the offshore wind industry, for more than a decade. This includes leading many initiatives to bring together academic researchers, national laboratories, agencies, and industry from across the U.S. and internationally. Our support for renewable energy and offshore wind development is informed by our inter-disciplinary and deep engagement with the policy, economics, science and business dimensions of climate change, marine resources, and energy. We bring to bear our perspective as engineers, physical and social scientists and educators working to build the clean economy and the workforce of the future.

UMass Boston has a strong and longstanding commitment to the environmental and economic health of the region. We are home to the Urban Harbors Institute, whose mission is to promote thriving ocean and coastal communities and sustainable natural resources through research, planning, engagement, and education. Thanks to support from the Massachusetts Clean Energy Center (MassCEC), UMass Boston offers a range of interdisciplinary programs and certificates in clean energy and sustainability that help equip “green and white collar” professionals, policymakers, and business managers for the transition to a clean energy economy. Our College of Management is home to the Center for Sustainable Enterprise and Regional Competitiveness, whose mission is to foster a transition to a clean, sustainable, and prosperous economy. We have also recently established the cross-college Sustainable Solutions Lab, which focuses on the intersection of climate adaptation and equity and has been a key partner with the City of Boston on the Climate Ready Boston project.

Mayflower Wind, LLC has reached out to us and other Massachusetts research institutions to inform us that they will invest \$5 M over 10 years following the award of a PPA in Massachusetts – through a fund administered by MassCEC - to support and augment existing research efforts like POWER-US (<https://power-us.org/#power-us>) and the Massachusetts Research Partnership in Offshore Wind. UMass Boston is part of the POWER-US leadership team. This would enhance the offshore wind research landscape in Massachusetts and support our ongoing efforts to establish Massachusetts as a key intellectual hub of the U.S. offshore wind industry. We applaud this laudable approach.

We are very pleased that Mayflower brings the entry of Shell New Energies and EDP Offshore Renewables into the nascent domestic offshore wind industry. Their experience and qualifications position them well to support the low carbon energy transition. The fact that this team is reaching out to academic institutions at the forefront of offshore wind development is encouraging. The integration of engineering and science with policy and economics, and successful partnerships between universities, industry, and government is essential as we all work together to build this critical sector in the new clean energy industry.

Thank you for considering this letter of support for the Mayflower Wind's approach to advancing Massachusetts leadership in the offshore wind sector. Should you need additional information, please do not hesitate to contact me.

Sincerely,



David W. Cash, Ph.D.
Dean, John W. McCormack Graduate School of Policy and Global Studies



Dr. David L. Levy
Professor, Department of Management
Founding Director, Center for Sustainable Enterprise and Regional Competitiveness



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Judith Judson, Commissioner
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, MA 02114

July 26, 2019

Dear Commissioner Judson,

The University of Massachusetts Lowell has been very actively engaged in supporting the development of the U.S. offshore wind industry for more than a decade. This includes establishing the only National Science Foundation supported Industry-University Cooperative Research Center for Wind Energy Science, Technology, and Research (**WindSTAR**) and UMass Lowell's Center for Wind Energy. Through the Center, we have continually strived to bring together industry and university to identify and solve problems important to the wind industry. We have hosted several wind energy research workshops at UMass Lowell and organized events that brought together academics, industry leaders, national laboratory representatives, and government officials. A major focus of the university research is on addressing issues related to the Commonwealth's and nation's energy needs as well as addressing energy resiliency and helping to transition to a renewable energy economy. As such, UMass Lowell is very supportive of the proposal to establish offshore wind energy generation within the waters of Massachusetts.



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Thank you for considering this letter of support for the Mayflower Wind's approach to advancing Massachusetts leadership in the offshore wind sector. Should you need additional information, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Christopher Niezrecki'.

Christopher Niezrecki, Ph.D.
Professor and Chair, Department of Mechanical Engineering
Director, WindSTAR I/UCRC
University of Massachusetts Lowell
E-mail: Christopher_Niezrecki@uml.edu
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