

Masse, Kristen (PUC)

From: Deborah Vine-Smith <deborahvinesmith@gmail.com>
Sent: Tuesday, July 22, 2025 11:18 AM
To: Masse, Kristen (PUC)
Subject: My Public comment for reference Docket No. SB-2022-02 / Energy Facility Siting Board is holding a public hearing on the SouthCoast Wind project

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Kristen L. Masse:

I have been warning people about Offshore Wind Turbines since 2017.

Below are some of my recent research that I like to be added as my Public comment for Docket No. SB-2022-02. SouthCoast Wind project.

My concerns are again validated by

https://www.crmc.ri.gov/meetings/2022_1213semipacket/SEER_EMF_MarineLife.pdf and this PDF doc link

<https://dep.nj.gov/wp-content/uploads/njfw/HO12-EMF-Fact-Sheet.pdf> [dep.nj.gov], that notes,


Bony fish like "Atlantic cod" do exhibit some sensitivity toward emitted EMF.⁵ If I recall this fish population is struggling due to overfishing.

"Some behavioral and anatomical responses by Yellowfin tuna have been reported.³"


"Sharks" 🐟 🐟 and rays are 14,000 times more sensitive to EMF than bony fish.¹² Sharks: Attraction to cables varies by species and the intensity of the emitted EMF; some species are attracted to the cables while others are repelled.^{13, 14}



<https://briwildlife.org/crowe/> [briwildlife.org] other **Biodiversity Research. Birds** 🐧 **and** 🐙 **Marine life are all impacted by this interference!**

Also in "**SEER**": https://www.crmc.ri.gov/meetings/2022_1213semipacket/SEER_EMF_MarineLife.pdf, it mentions,




"Electric power cables, such as those used in offshore wind (OSW) farms, are sources of electromagnetic fields (EMFs) that may add to and interact with other sources of electric and magnetic fields that are present on land, in the  atmosphere, and underwater."

[Earth's Magnetosphere: Protecting Our Planet from Harmful Space Energy - NASA Science](#)

[\[science.nasa.gov\]](#) notes, "Earth  is surrounded by an immense magnetic field called the magnetosphere. Generated by powerful, dynamic forces at the center of our world, our magnetosphere shields us from erosion of our atmosphere by the solar wind..... "

[Magnetospheres - NASA Science \[science.nasa.gov\]](#) notes too, "Earth's magnetosphere is part of a dynamic, **interconnected system that responds** to solar, planetary, and interstellar  conditions. The side of the magnetosphere facing away from the sun - the nightside  - stretches out into an immense magnetotail, which fluctuates in length and can measure hundreds of Earth radii, far past the moon's orbit at 60 Earth radii."

When I took Geology at CCRI, I learned that Mother Earth's magnetic poles naturally change. [Tracking Changes in Earth's Magnetic Poles | News | National Centers for Environmental Information \(NCEI\) \[ncei.noaa.gov\]](#)

[Geomagnetism Program | U.S. Geological Survey \[usgs.gov\]](#) One has to wonder if they are studying the impact of Offshore Wind Turbines.   Tides? **Solar  flare interference.**
Etc. NCEI Geomagnetic Calculators [ngdc.noaa.gov]

Observatories

ACTIVE [Fredericksburg \(FRD\) | U.S. Geological Survey \[usgs.gov\]](#) from [Observatories | U.S. Geological Survey \[usgs.gov\]](#)

[Transformation of Coordinate \[wdc.kugi.kyoto-u.ac.jp\]](#)

Transformation of Coordinate Geographic \Leftrightarrow Geomagnetic (IGRF)

"Deep Dive": https://offshorewindfacts.org/wp-content/uploads/2024/04/Deeper-Dive_-EMFs_FINAL-1.pdf [\[offshorewindfacts.org\]](#) notes, "The undersea cables produce a 60-Hz AC magnetic field **around each cable.**

[Reiteration: <https://www.boem.gov/sites/default/files/documents/renewable-energy/mapping-and-data/Electromagnetic-Fields-Offshore-Wind-Facilities.pdf> [\[boem.gov\]](#)]

"Deep Dive" also notes, "Buried subsea cables can **warm the surrounding sediment** and **could affect benthic organisms** that serve as prey for benthic-feeding sea turtles."

As can be learned from studies in the Dutch North Sea, where some offshore wind farms have been in operation for the last two decades, the calculated **magnetic field levels have been steadily increasing due to the increasing magnitude and size of offshore wind farms (Hermans & Schilt, 2022).**"

Next is toxicity:

<https://phys.org/news/2025-01-offshore-farms-significant-ecosystem-economic.html> [phys.org] notes, "Locating seaweed and shellfish farms in close proximity [phys.org] to offshore wind farms, like the world's first co-located commercial-scale seaweed farm in the North Sea, could see metals from turbines build up in these species, leading to concentrations that could exceed safe limits for human consumption [phys.org]."

"Food Safety during seaweed cultivation.....in the North Sea":

https://www.sciencedirect.com/science/article/pii/S0308597X20301500?ref=pdf_download&fr=RR-2&rr=9633aa060a529021 [sciencedirect.com]

Addendum to Seaweed:

Bioremediation Potential of Seaweeds: Recycling Nitrogen, Phosphorus, and Other Waste Products

<https://onlinelibrary.wiley.com/doi/10.1002/9783527801718.ch7> [onlinelibrary.wiley.com] "Recent research and commercial developments in seaweed cultivation demonstrate the potential of seaweeds to remediate nutrients and **metals** from land-based and coastal aquaculture, **urban** and **agricultural runoff**, and **industrial facilities**."

"Kelp Farming Could Help Clean up Polluted Waters"

<https://www.discovermagazine.com/environment/kelp-farming-could-help-clean-up-polluted-waters> [discovermagazine.com] **Kelp feeds off excess carbon dioxide, nitrogen and phosphorus.**

Helps oysters by mitigating ocean acidification

<https://phys.org/news/2022-06-kelp-mitigates-ocean-acidification-key.html> [phys.org]

I like to end with: **Solar Farms/Ranches and Wind Turbines each only last 30 years at most.** Of these two, Solar Farms is the better choice of these necessary evils.

Hazardous waste verses.....what has been mentioned in this correspondence about Offshore Wind Turbines

<https://www.epa.gov/hw/end-life-solar-panels-regulations-and-management> [epa.gov]

<https://www.greenclean-solar.com/post/what-happens-to-solar-panels-once-they-ve-reached-end-of-life> [greenclean-solar.com]

For these reasons, both forms of CLEAN energy installations should be BONDED!

Meanwhile I keep asking people to consider <https://smartflower.com/> [smartflower.com] and yet.....
. ????

Lastly, the 🌳 🌲 🌳 forests 🌲 🌳 🌲 need thinning and prescribed 🔥 burns, not clearings 🗑️ !!!

Respectfully,

Deborah Vine-Smith
Colonial Ave, Cumberland, R.I.

Masse, Kristen (PUC)

From: Deborah Vine-Smith <deborahvinesmith@gmail.com>
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p.s.

Kristen L. Masse:

I see this project as only a temporary band-aid to addressing Climate Change, which I know can be easily addressed by reducing 🌫️ Light Pollution, Thermal Pollution, and single use plastic, etc.. I see **no** environmental benefits from Offshore Wind Farms in light of what I mentioned already, which does not even go in depth about what is being taken from Mother Earth 🌍.

<https://www.energy.gov/sites/default/files/2022-02/Wind%20Supply%20Chain%20Fact%20Sheet%20Final.pdf> [energy.gov]

<https://www.vvcresources.com/what-materials-are-used-to-make-wind-turbines> [vvcresources.com] "Land based Wind Turbine"

It's strange that we are not looking into other forms of..... like those listed here

<https://www.energy.gov/policy/securing-americas-clean-energy-supply-chain> [energy.gov].

Deb

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