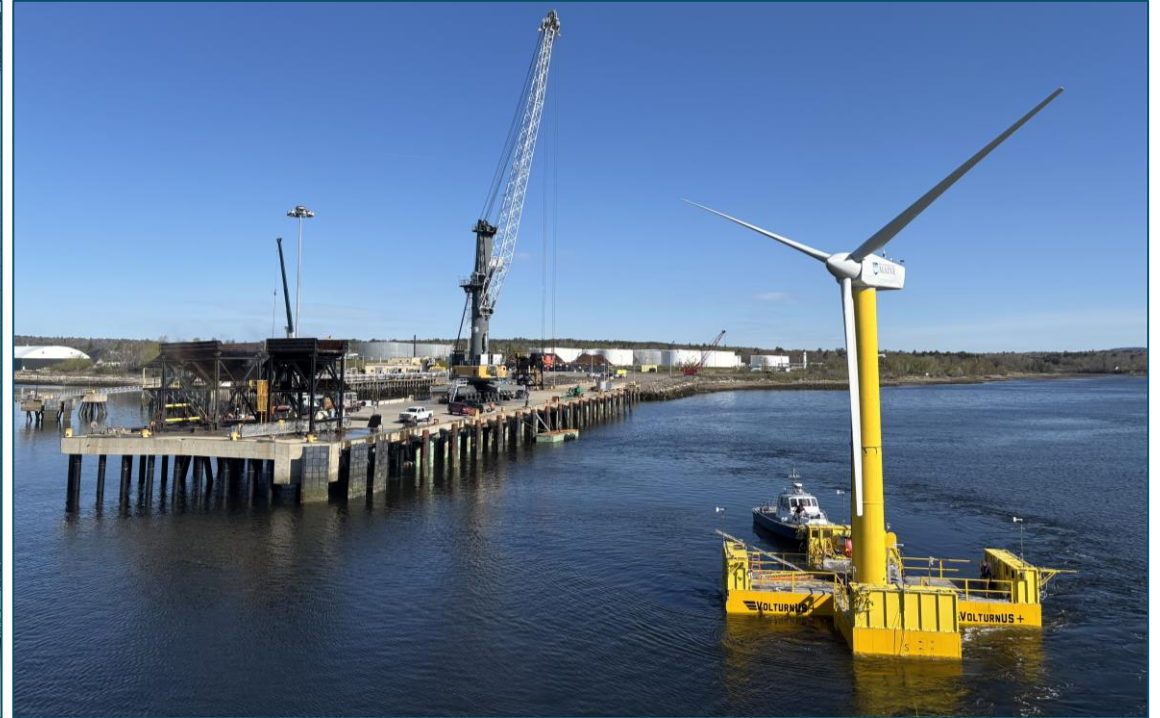
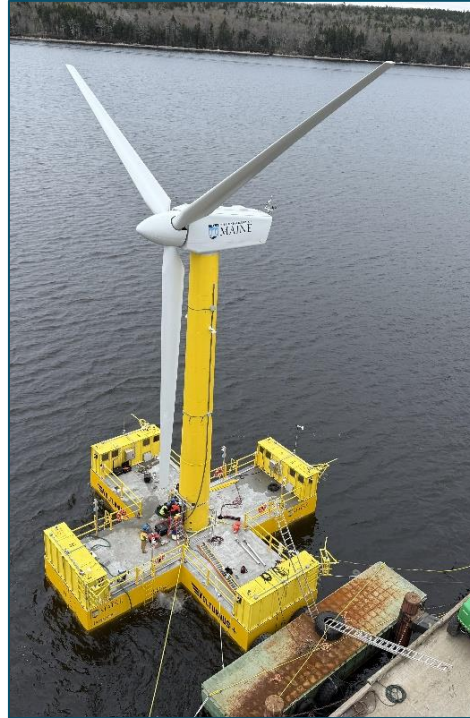
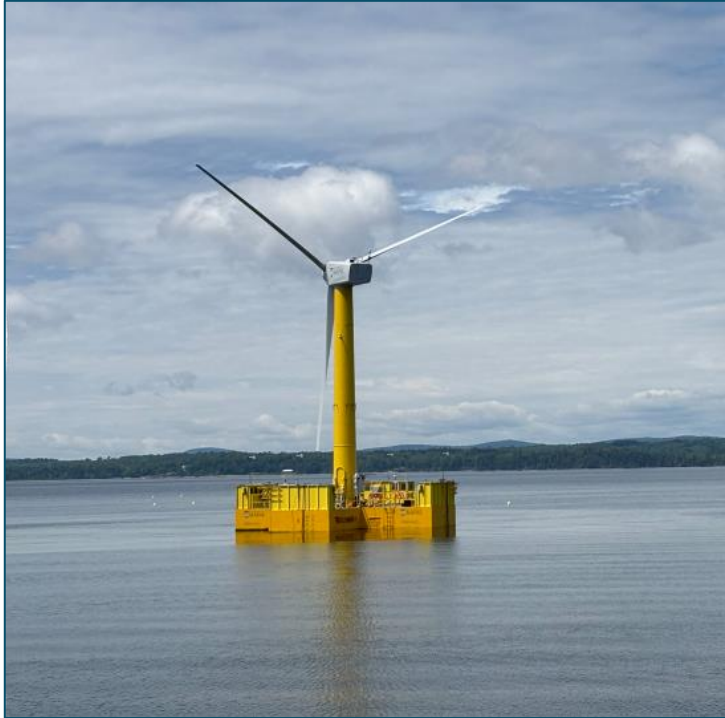


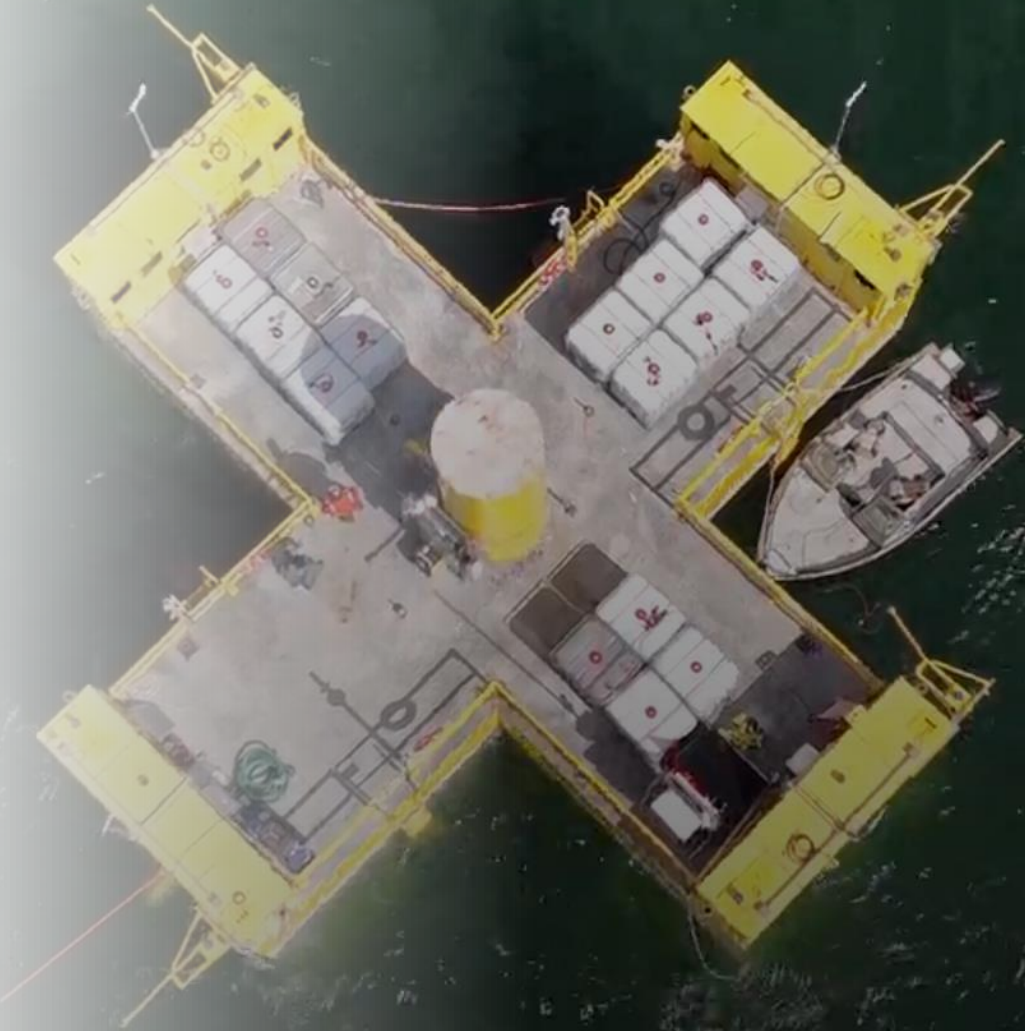
**Project Update:**  
Demonstration Off Castine, Maine of 2<sup>nd</sup> Gen Floating Wind Foundation  
VolturnUS + Damped Concrete Barge



**Maine Offshore Wind Research Consortium**  
**August 13<sup>th</sup>, 2025**

# Outline

1. Project overview
2. Update on Progress
3. Next Steps
4. Questions





# Demonstration Project Overview

- National competition to advance 2<sup>nd</sup> generation floating foundation
- Goal is to validate novel new floating concrete foundation
  1. Less expensive to build and smaller footprint
  2. Requires less port infrastructure
  3. High local benefits
- Demonstrate production methods and naval architecture with American Bureau of Shipping
  - 27 partners, local supply chain engaged
  - ¼ scale of 15MW unit
- The turbine will be the second floating wind turbine in the US



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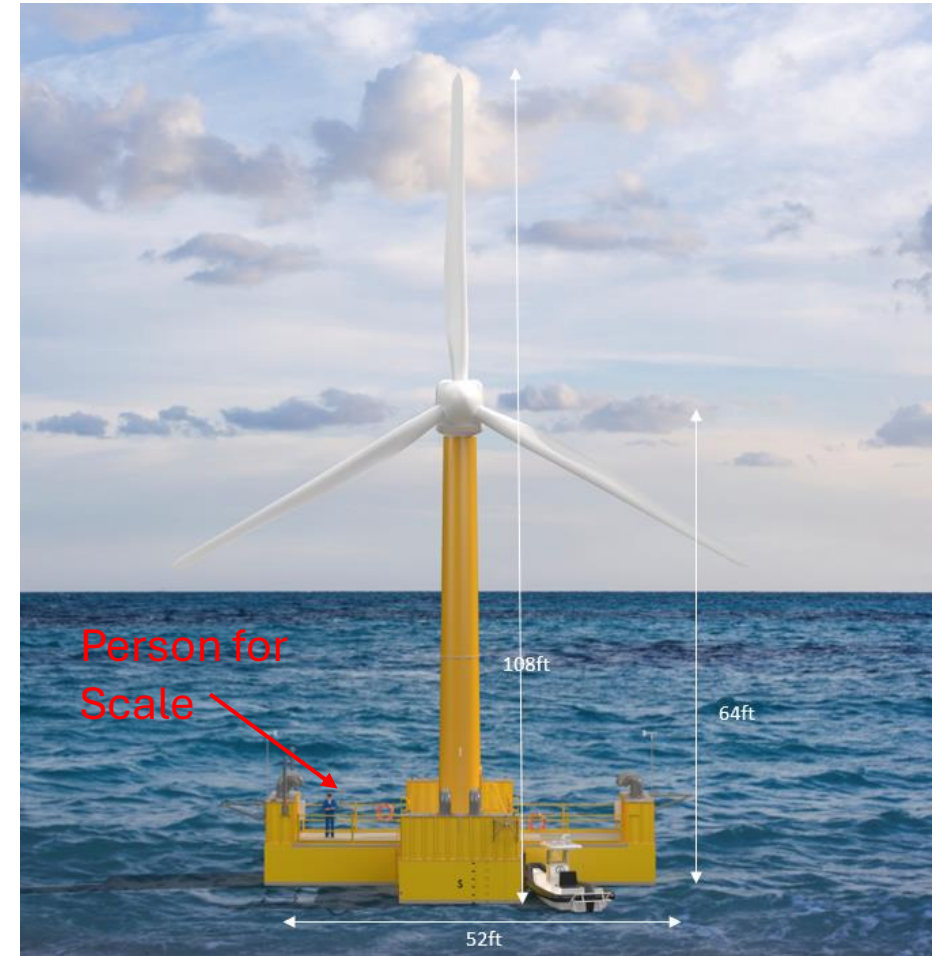
Aerodynamic Turbines Lighter and Afloat with Nautical Technologies and Integrated Servo-control

# Construction and Launch of Foundation Completed March 30<sup>th</sup>

Construction Photo of Concrete Foundation



Completed Turbine, 70ft water depth, 2000ft from shore





## 60 nautical mile tow

- Led by Maine Maritime Academy and Penobscot Bay Tractor Tug
- Speed ~2 knots
- Lead vessel and assist vessel.
- Hs 1m, 15 knot winds, 1 knott currents
- Towed from construction site to turbine integration facility
- Validation of towing methods



# Tower, Nacelle, and Blades Installed from Pier to Floating Platform

- 3 lifts
- Heavy civil contractors inside hull with turbine OEM staff
- Completed in 2 days
- Initial commissioning completed (cable runs, nacelle yaw, blade pitch)

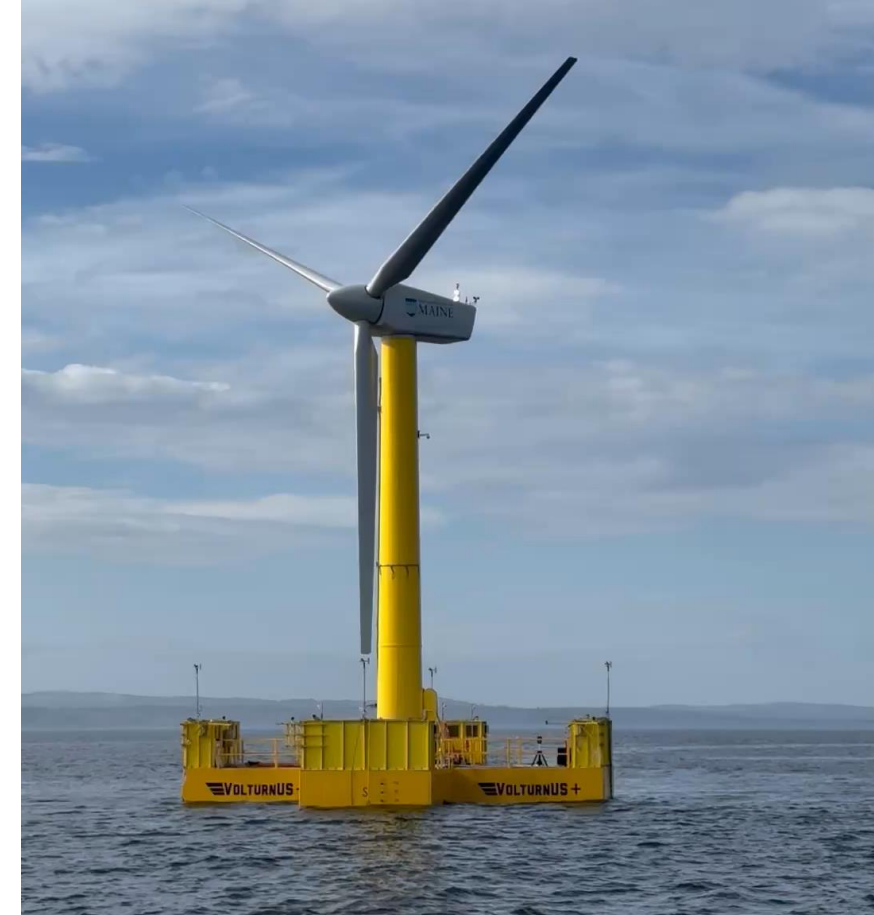




# Towing from Searsport to Castine

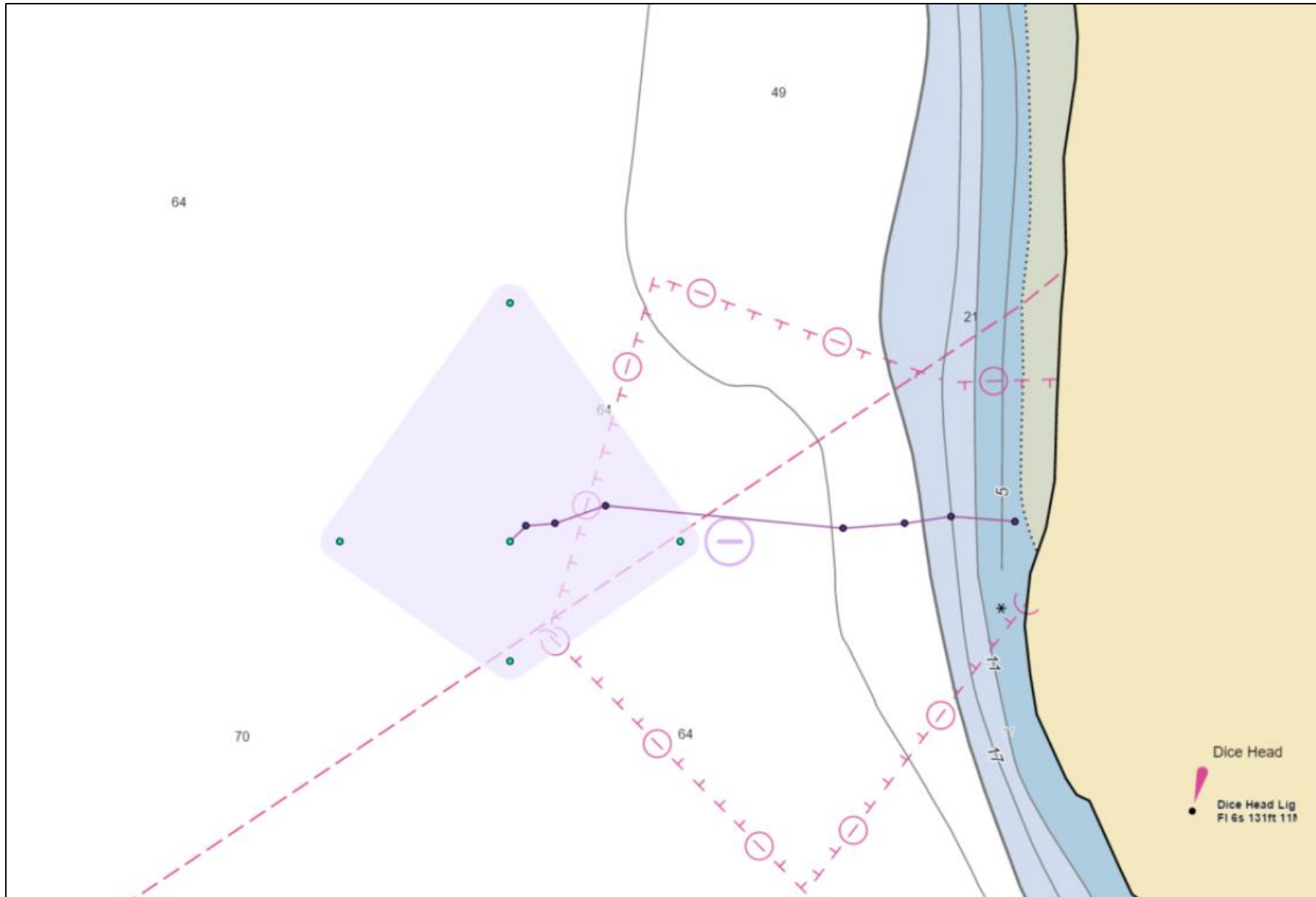


Attached to Moorings, cable installed, instrumentation and turbine commissioning underway.





# NOAA Charts Updated



# Project Next Steps

1. Turbine commissioning underway
2. Bat and bird monitoring underway with BRI
3. Collect 1 year of data for 3<sup>rd</sup> party certification
4. State of Maine RFA released to conduct research using the floating wind turbine.
  1. Easily integrate into existing electrical and mechanical infrastructure
  2. Not require any modification of existing permits
  3. UMaine technicians and engineers available to support installation and design
5. Open to explore other research opportunities using asset



# Questions?

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