DOCKETED	
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Project Title:	Integrated Resource Plan
TN #:	246000
Document Title:	Andrew Zalay PE Comments - Presentation - Innovative Concrete Solutions and Civil Construction (2 of 3)
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Docket Number: 18-IRP-01

Presentation - Innovative Concrete Solutions and Civil Construction (2 of 3)

Innovative Concrete Solutions and Civil Construction: MIT Deep Water Offshore Wind Floater for Gulf of Maine

Additional submitted attachment is included below.

Innovative Concrete Solutions and Civil Construction: MIT Deep Water Offshore Wind Floater for Gulf of Maine

Andy Zalay, P.E., MIT Alumni, Class of '69, Course XVI

EWind

Innovative Concrete Solutions and Civil Construction

Exciting New Opportunity- concrete/ceramic composite offshore wind towers and foundations to maximize local jobs and economic benefits using Jones Act compliant vessels

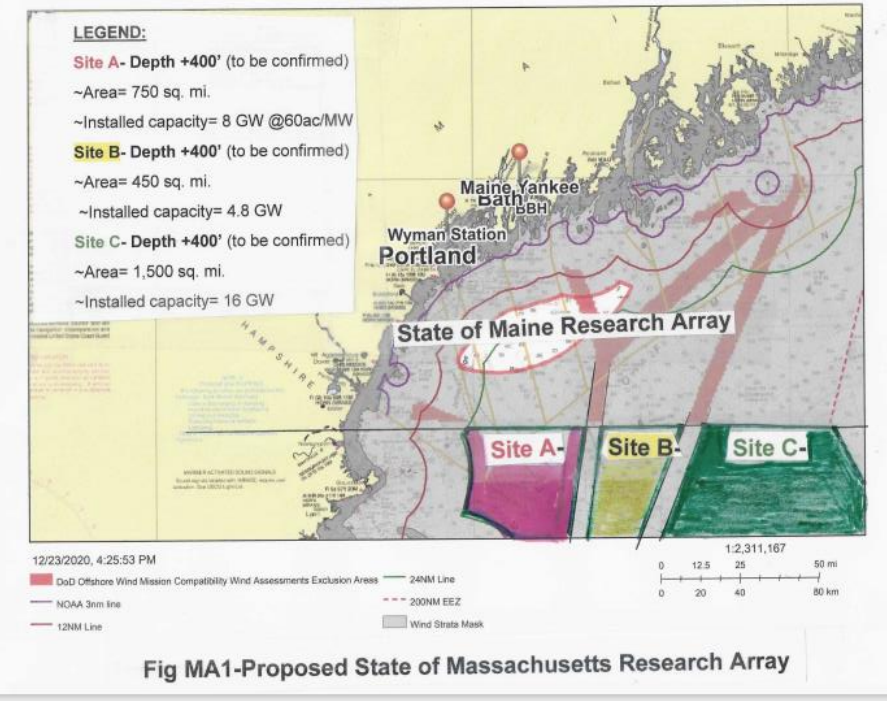
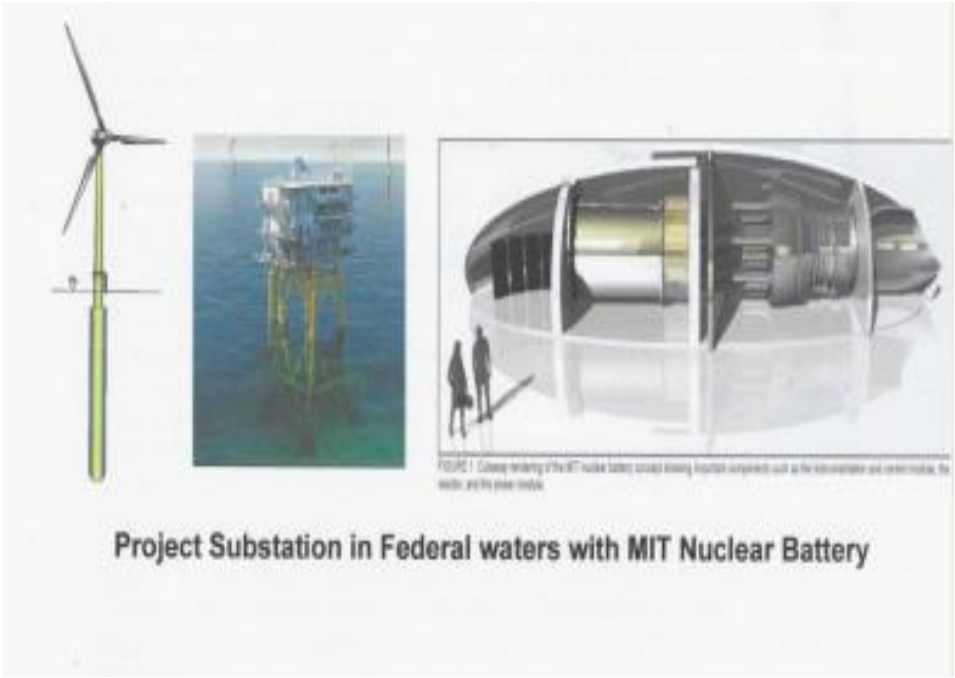


Fig MA1-Proposed State of Massachusetts Research Array



Project Substation in Federal waters with MIT Nuclear Battery

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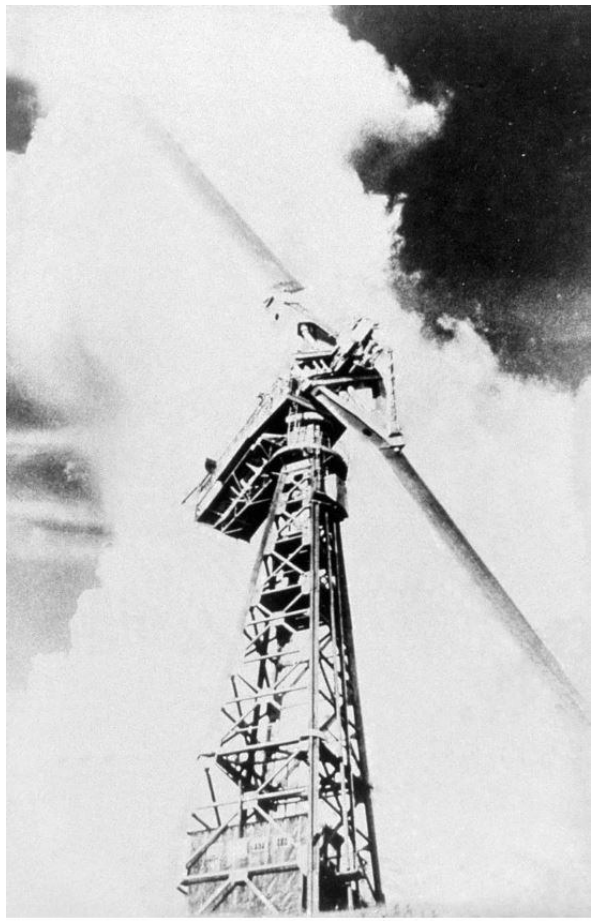

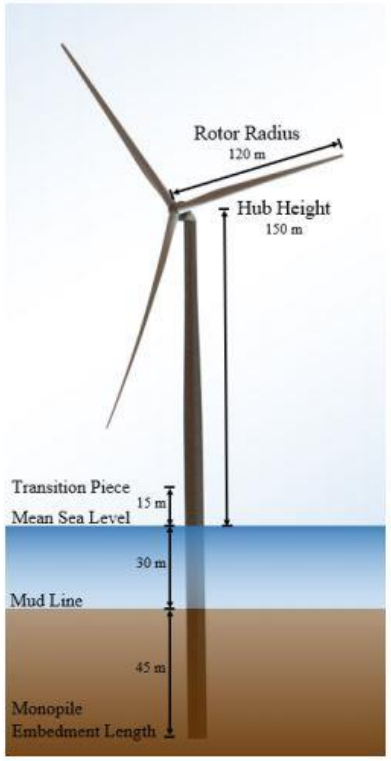

Figure ES-1. The IEA Wind 15-MW reference wind turbine

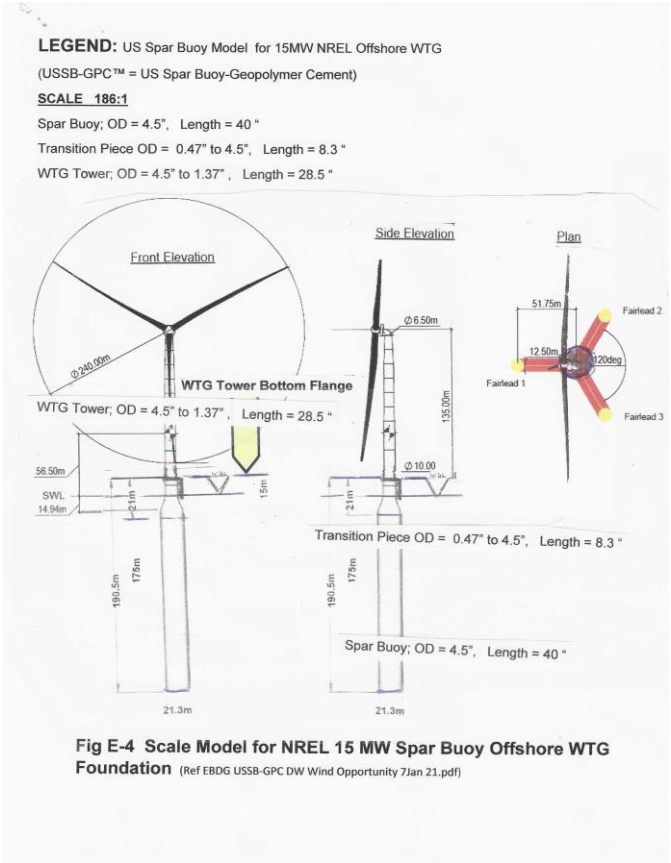

Fig E-4 Scale Model for NREL 15 MW Spar Buoy Offshore WTG Foundation (Ref EBDG USSB-GPC DW Wind Opportunity 7Jan 21.pdf)

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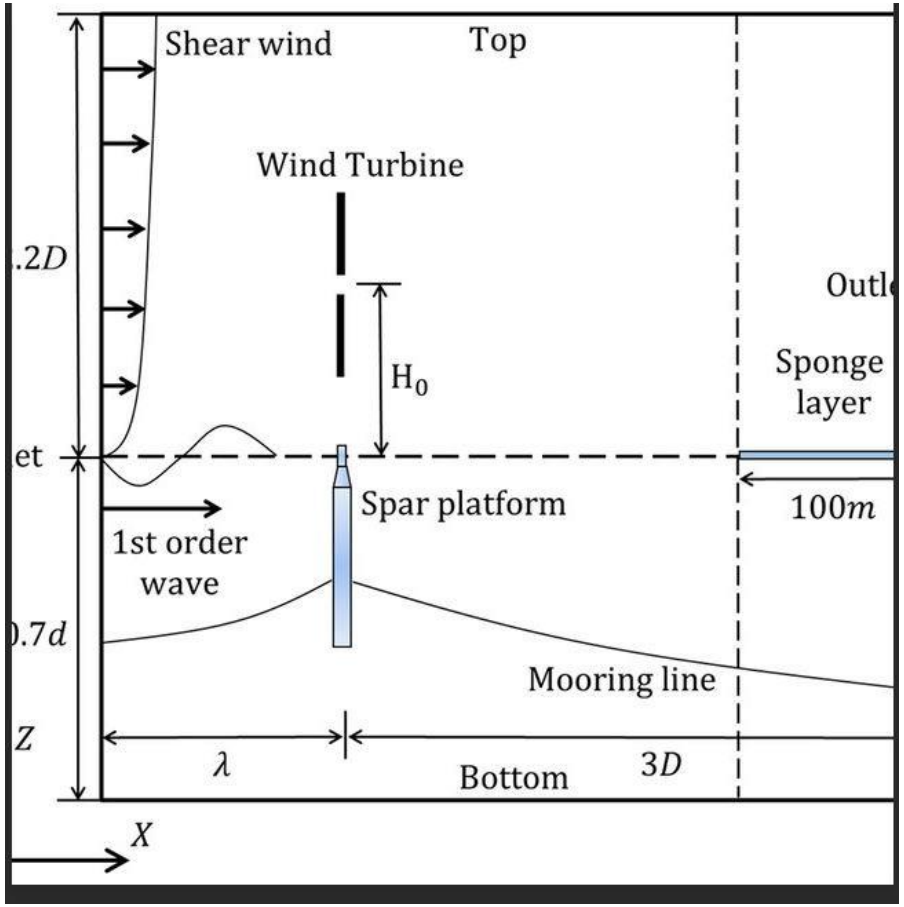
Maine's $100M Floating Offshore Wind Finds Major Backers: RWE and Mitsubi

Two heavyweight global offshore wind investors will acquire UMaine's demonst be built by 2023.

KARL-ERIK STROMSTA | AUGUST 05, 2020



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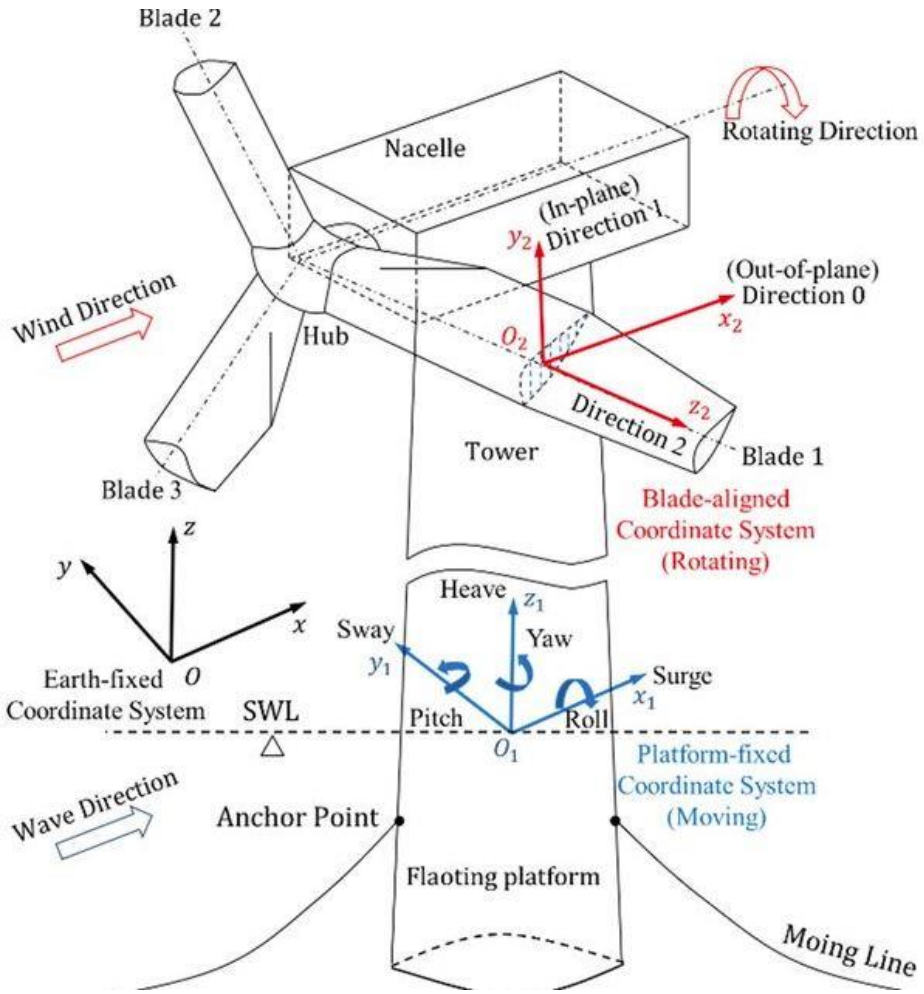

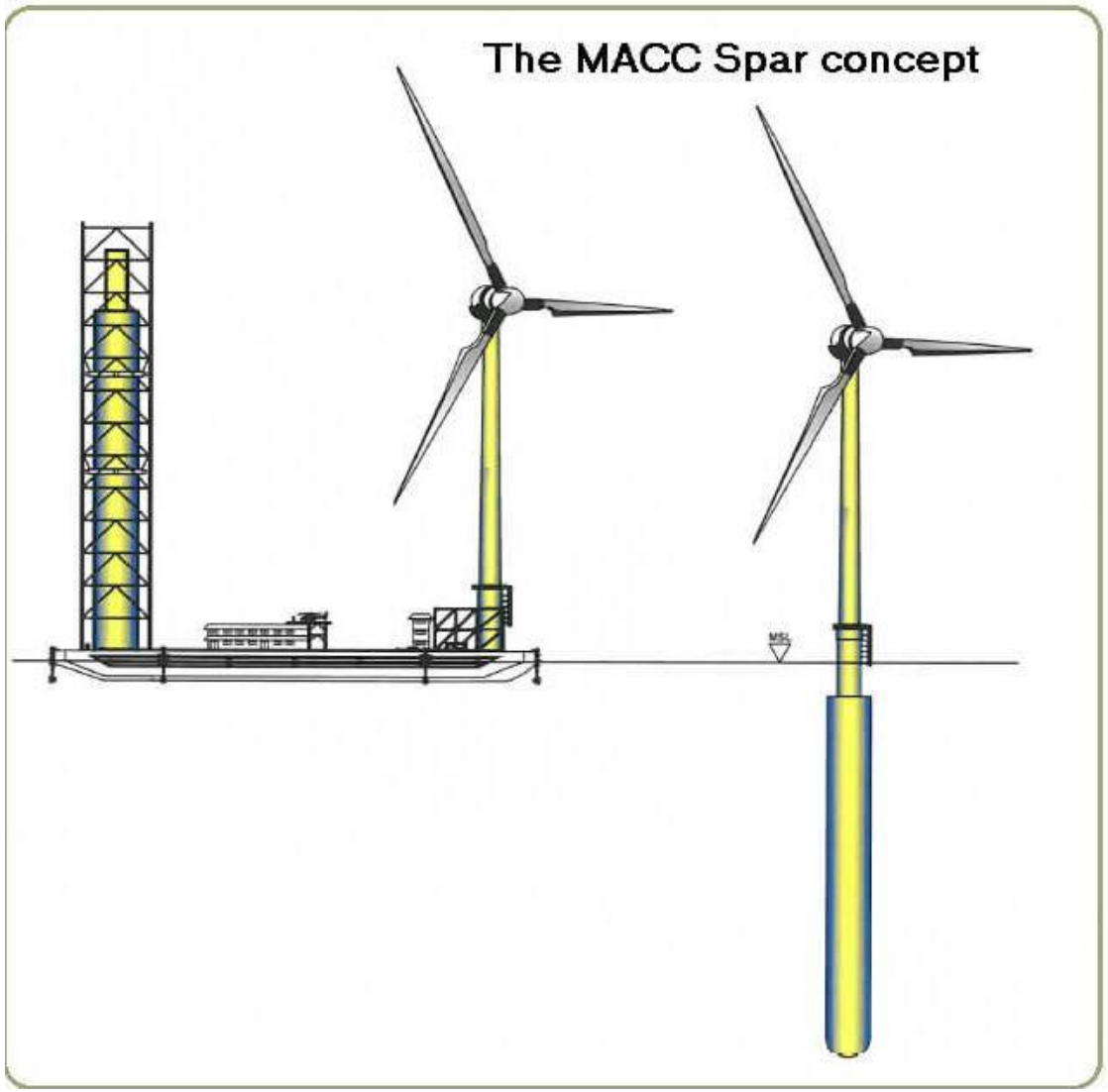

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NEW MATERIALS TECHNOLOGY

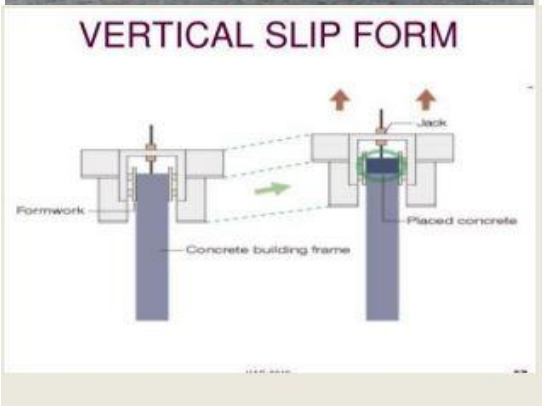
CERAMIC COMPOSITE CEMENT SPAR BUOY

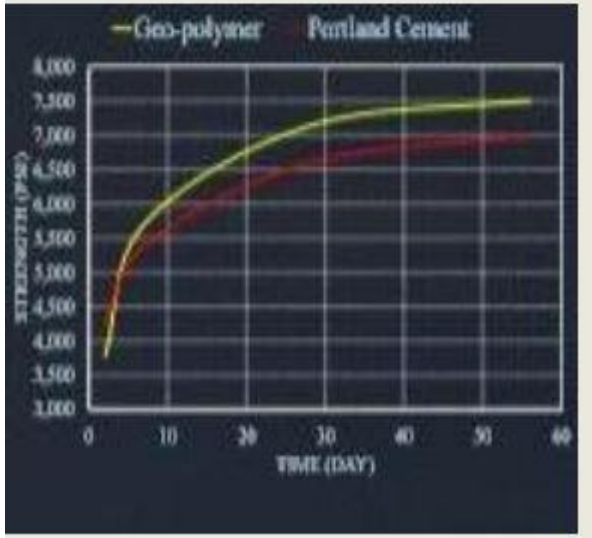
*Geopolymer cement with basalt fibers

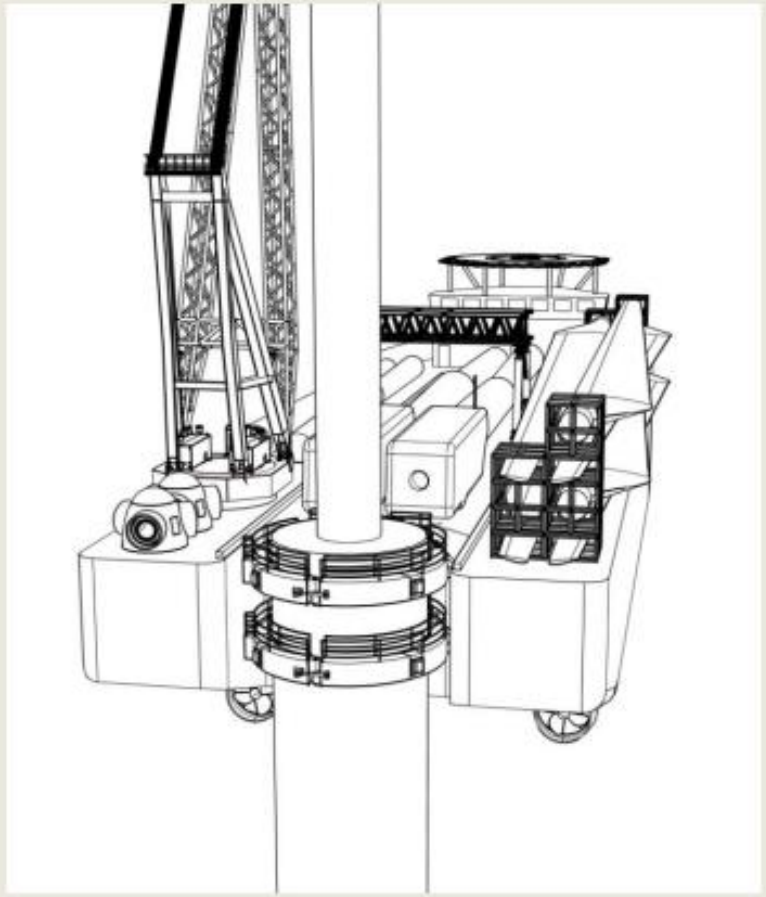
*Basalt reinforcing bars

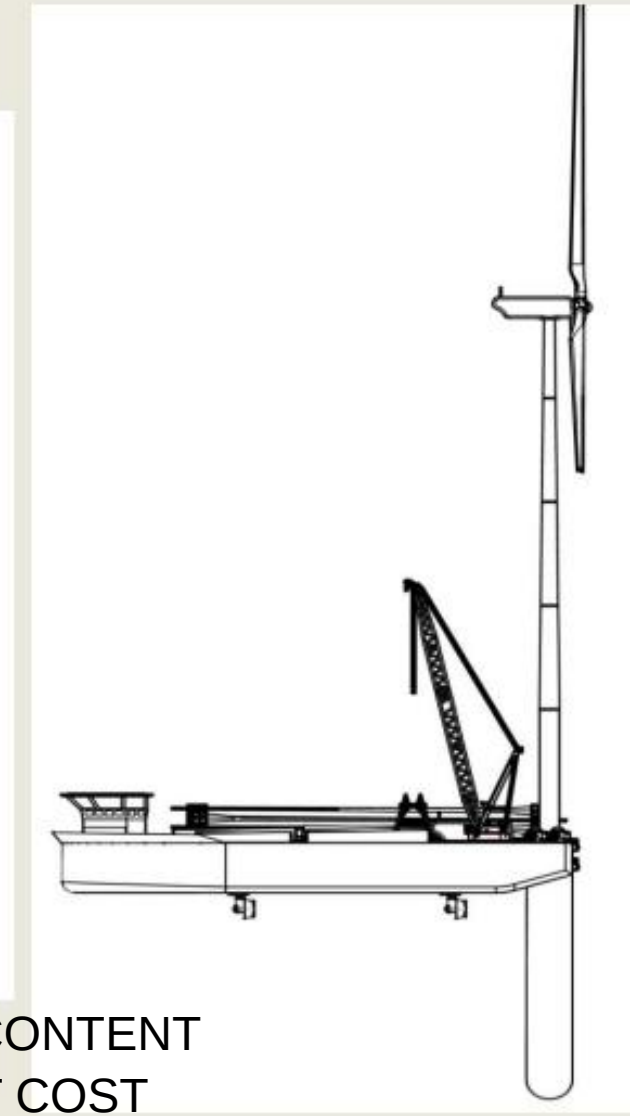
*Basalt /geopolymer form strong chemical bond control cracking

*100 yr. service life in ocean









1) LOCAL CONTENT
2) LOWEST COST
3) MINIMUM IMPACT ON EXISTING PORTS
4) US CENTER OF EXCELLENCE

Questions? Email/call zalaype@gmail.com 949 378 0807

GOVERNMENT- Promote US center of excellence for critical floating wind infrastructure "opportunity ready projects"
TECHNOLOGY- Develop integrated WTG/foundation design suitable for existing US ports with highest local content
COMMERCE- Utilities to seek power purchase agreements for critical floating wind infrastructure on basis of lowest levelized cost (LCOE ($/MWh) highest US jobs, local content and $ economic benefits
PUBLIC- Support commercial development of best offshore wind resources protective of the environment as a critical tool to overcome/mitigate rolling blackouts/water rationing and global warming