

**DOCKETED**

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<b>Project Title:</b>	Energy System Reliability
<b>TN #:</b>	251393
<b>Document Title:</b>	Andy Zalay, PE Comments - Request for Information - Presentation - Innovative Concrete Solutions by Andy Zalay, PE
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*Comment Received From: Andy Zalay, PE*  
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**Request for Information - Presentation - Innovative Concrete Solutions by Andy Zalay, PE**

*Additional submitted attachment is included below.*

Applied Energy Symposium

MIT A+B

Co-organized with Harvard

MIT Applied Energy Symposium  
MIT A+B  
Co-organized with HARVARD

icae  
International Conference on Applied Energy

July 5-8, 2022  
MIT, CAMBRIDGE, USA

[applied-energy.org/mitab2022](http://applied-energy.org/mitab2022)



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

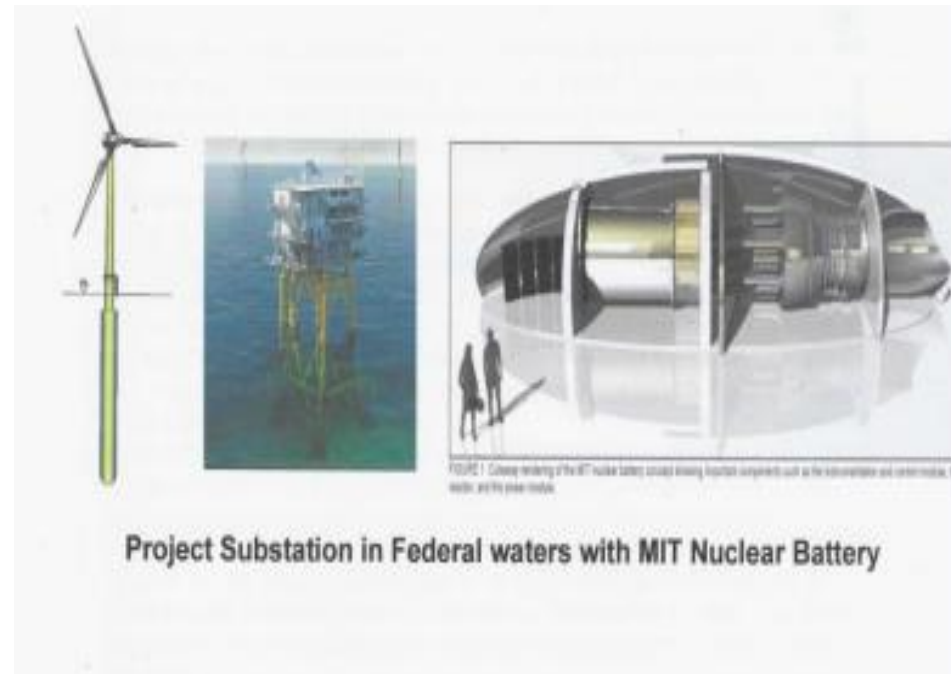
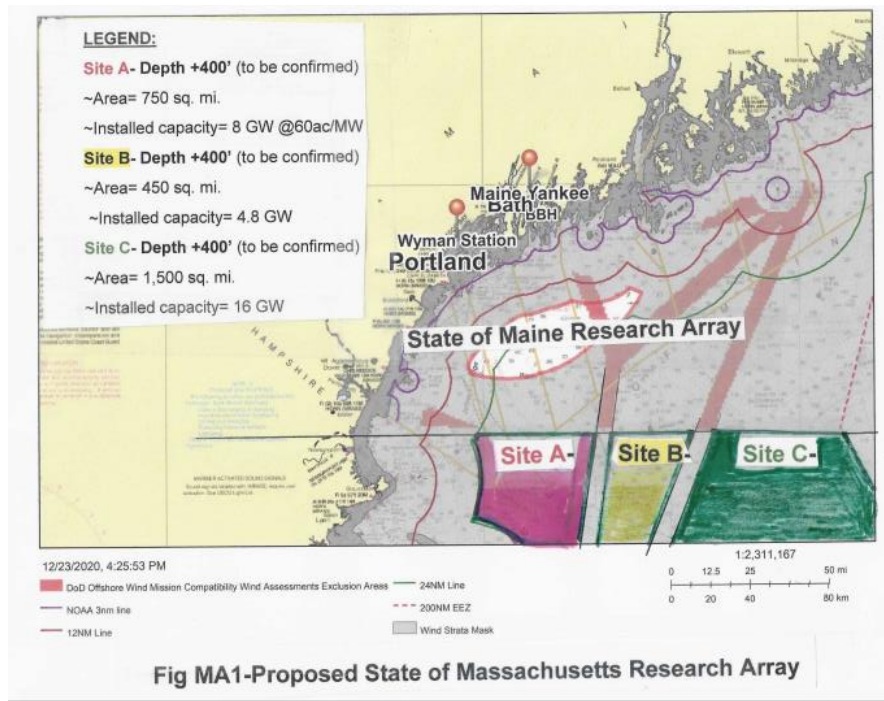
Andy Zalay, P.E., MIT Alumni, Class of '69, Course XVI

*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



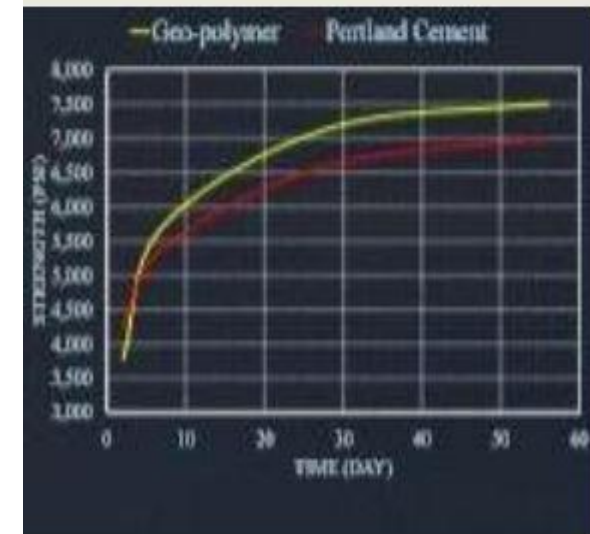
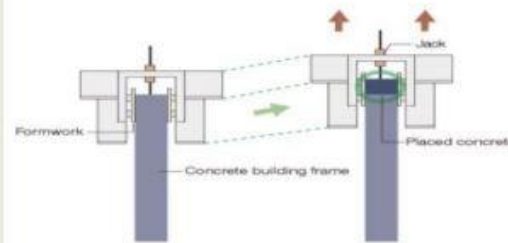
## NEW MATERIALS TECHNOLOGY

### 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



VERTICAL SLIP FORM



Questions? Email/call [zalaype@gmail.com](mailto: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