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Product Description	
DOE Award/Contract Number	AR0001188
Recipient/Contractor (Organization)	University of Maine
STI Product Type	Technical Report
Report Type	Final Technical Report
Intellectual Property/Distribution Limitations	Official Use Only; Copyrighted Materials; Program-Determined Official Use Only - OUO

Product Type Info	
STI Product Title	The NASA Floater: 15 MW Ultra-light Concrete Hull with Sea-water Ballast Tuned
Publication/Issue Date	09/29/2023

Authors

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Content	
Report/Product Number	DOE-1188
Sponsoring DOE Program Office	USDOE Advanced Research Projects Agency - Energy (ARPA-E)

Description/Abstract	In this project, UMaine developed the VolturnUS+ platform; a new 15MW+ ultra-light-weight, corrosion-resistant, concrete floating offshore wind turbine (FOWT) equipped with novel patent pending Heel Tank damping technology. UMaine developed this damping technology to reduce FOWT motions using existing onboard sea-water ballast, which has been integrated into the concrete cruciform hull resulting in reduced platform rigid body motions leading to a lighter hull, increased turbine performance, and a lower LCOE.
Subject Categories	17 WIND ENERGY
Keywords	Wind, renewable, offshore

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Transmission Information	Upload File STI Product is Being Transmitted Electronically via E-Link
File Name	C:\fakepath\DE-AR0001188_UMaine_Viselli_Final Technical Report_FINAL.pdf