

Virginia Offshore Wind Technology Advancement Project (VOWTAP)

Commonwealth of Virginia
Department of Mines, Minerals and Energy (DMME)

BUREAU OF OCEAN ENERGY MANAGEMENT (BOEM)

NEPA Scoping Meeting

Virginia Beach, Virginia

April 3, 2014

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BOEM Office of Renewable Energy Programs



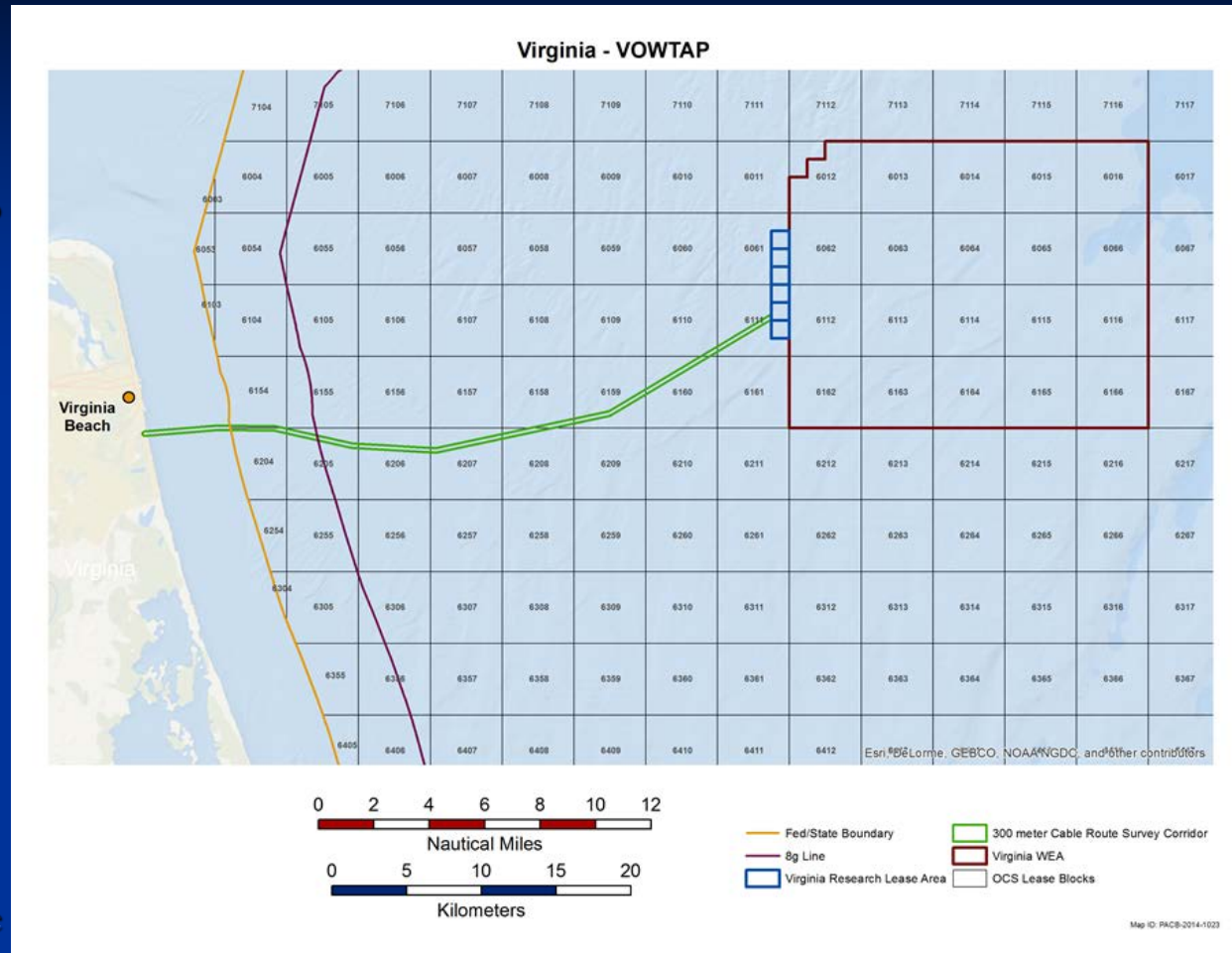
OVERVIEW

- BACKGROUND
- PROJECT
- NEXT STEPS



BACKGROUND

- The Commonwealth of Virginia, Department of Mines Mineral and Energy (DMME) in collaboration with the VOWTAP consortium submitted a research lease application to BOEM on February 8, 2013.
- The objective of DMME is to obtain a lease under 30 CFR 585.238 for siting up to two six-megawatt (MW) turbines, a 34.5 kV or 69 kV subsea export cable and metocean monitoring equipment in 2,135 acres.
- The data obtained under this lease will be publicly available and support the future production of renewable energy within Virginia's Wind Energy Area (WEA).



BACKGROUND

Renewable Energy Programs

Offshore Renewable Energy Guide

State Activities

- California and Washington
- Delaware
- Florida
- Georgia
- Hawaii
- Maine
- Maryland
- Massachusetts
- New Jersey
- New York
- North Carolina
- Oregon
- Rhode Island
- South Carolina
- Virginia

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Research Activities Plan

- VOWTAP Research Activities Plan
- Appendix A Agency Correspondence
- Appendix B CVA Nomination (Confidential – Not for public distribution)
- Appendix C Dominion Annual Report Form 10-K
- Appendix D-1 Typical Construction
- Appendix D-2 Preliminary Engineering Drawings
- Appendix E Metocean Report
- Appendix F Marine Site Characterization Survey Report
- Appendix G Sediment Transport Analysis
- Appendix H Jurisdictional Wetland Delineation Report
- Appendix I Air Emissions Calculations and Methodology
- Appendix J Benthic Survey Report
- Appendix K Magnetic Fields from Submarine Cables
- Appendix L Interim Avian Survey Report
- Appendix M-1 In-Air Acoustic Assessments
- Appendix M-2 Underwater Noise Modeling Report
- Appendix N Marine Archeological Resources Assessment (Confidential – Not for public distribution)
- Appendix O Terrestrial Archaeological Survey (Confidential – Not for public distribution)
- Appendix P Historic Properties Assessment
- Appendix Q Visual Impact Assessment
- Appendix R Navigational Risk Assessment
- Appendix S Safety Management System Requirements
- Appendix T Aviation Risk Assessment



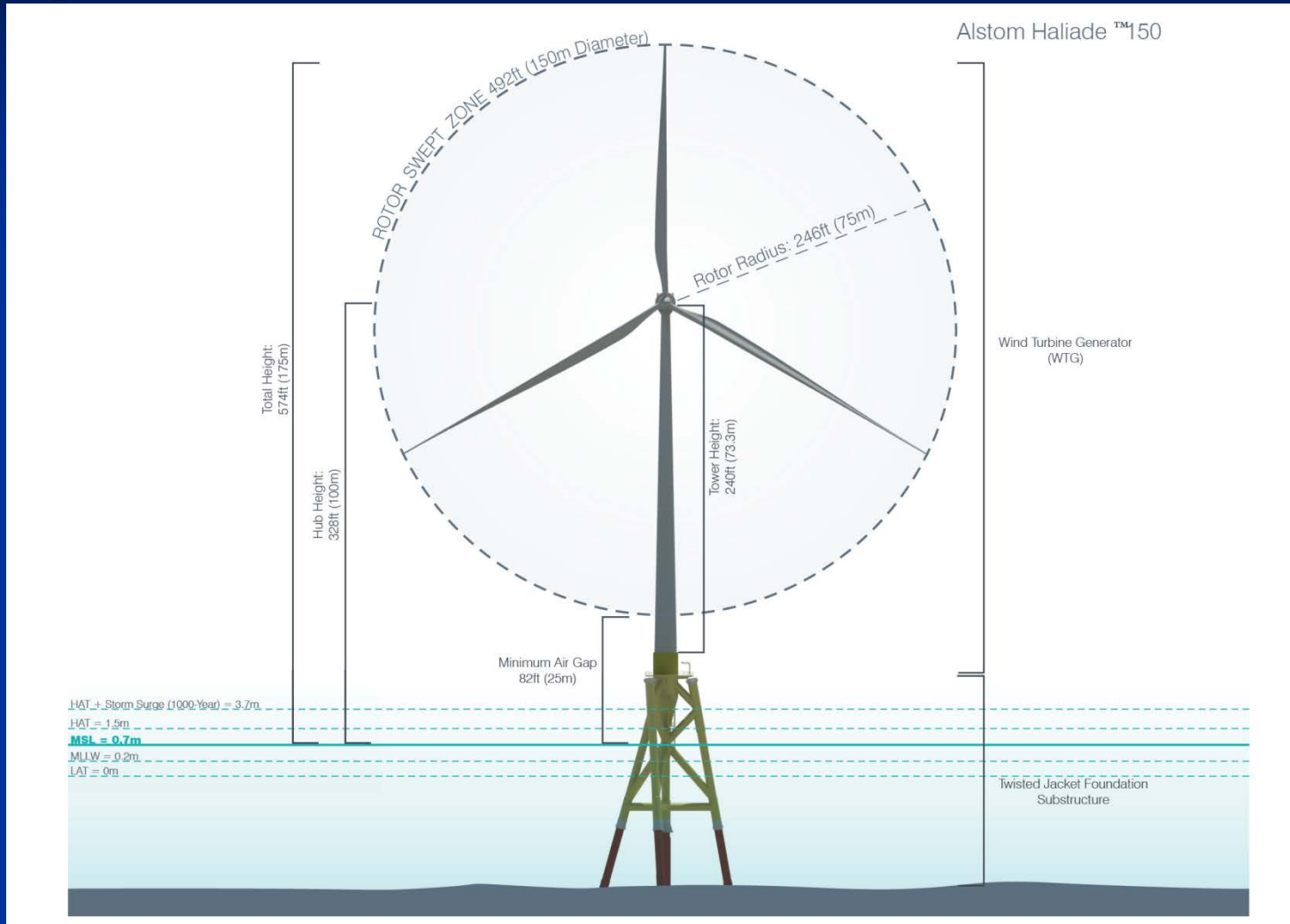
BOEM published a Determination of No Competitive Interest August 29, 2013.

The Determination cleared the way for BOEM to process the application for a research lease for resource assessment and renewable energy technology testing.

A Research Activities Plan (RAP) was submitted providing the basis of information to conduct the EA February 2014 and is available for review.

VOWTAP PROJECT

Two six-megawatt (MW) turbines



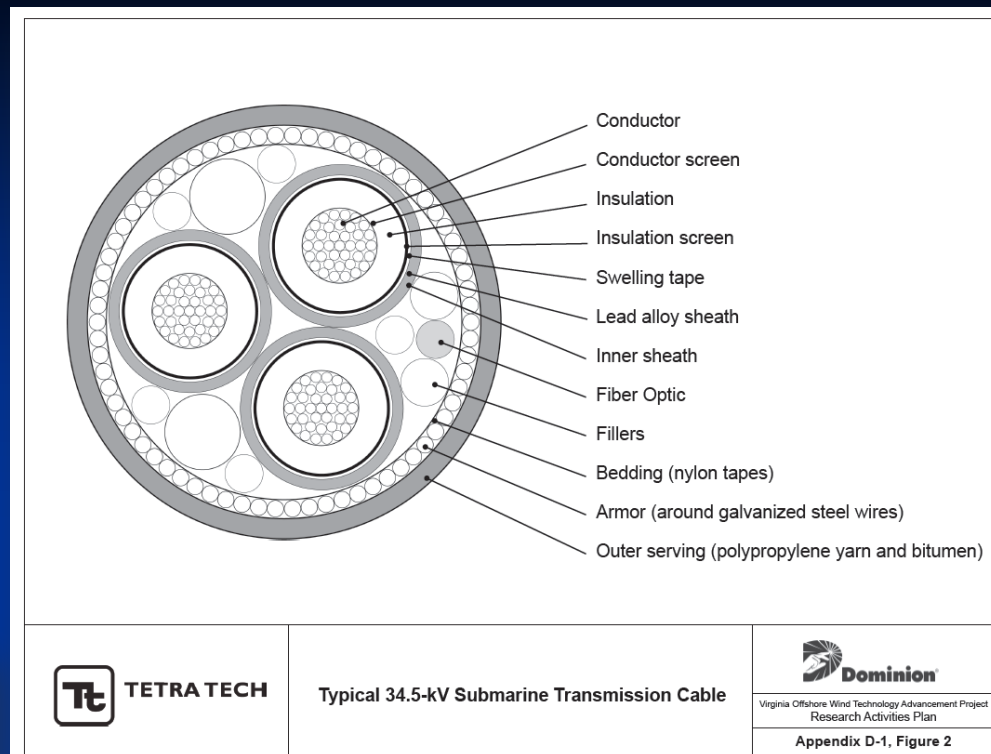
VOWTAP PROJECT

Turbine Foundations



VOWTAP PROJECT

- 27 nautical miles of (110mm or 4.3 inches) 34.5kv or 69kv submarine transmission cable.



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BOEM's Next Steps

- Conduct Scoping
- National Environmental Policy Act Environmental Assessment for Research Activities Plan.

