

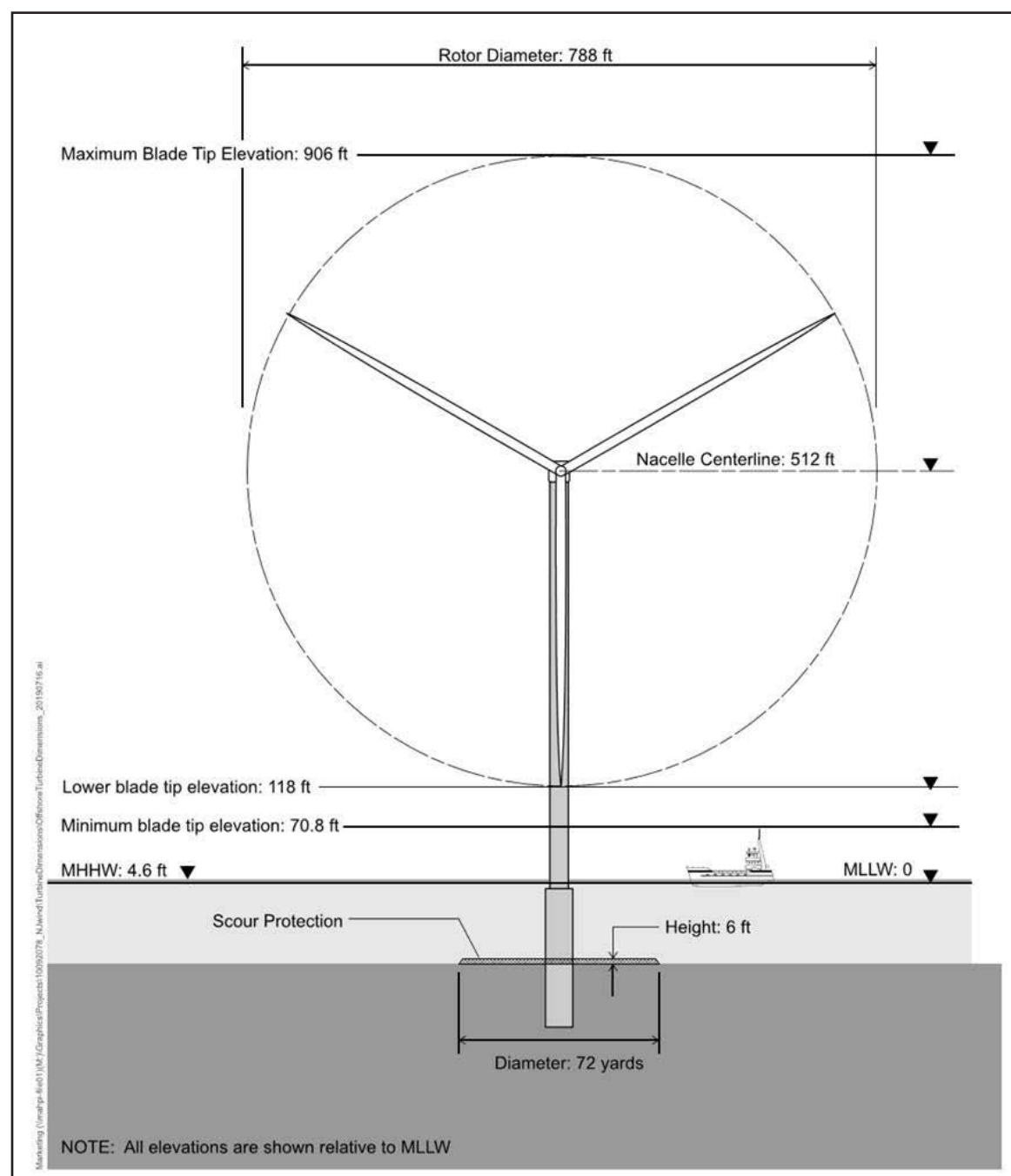


Ocean Wind Offshore Wind Farm

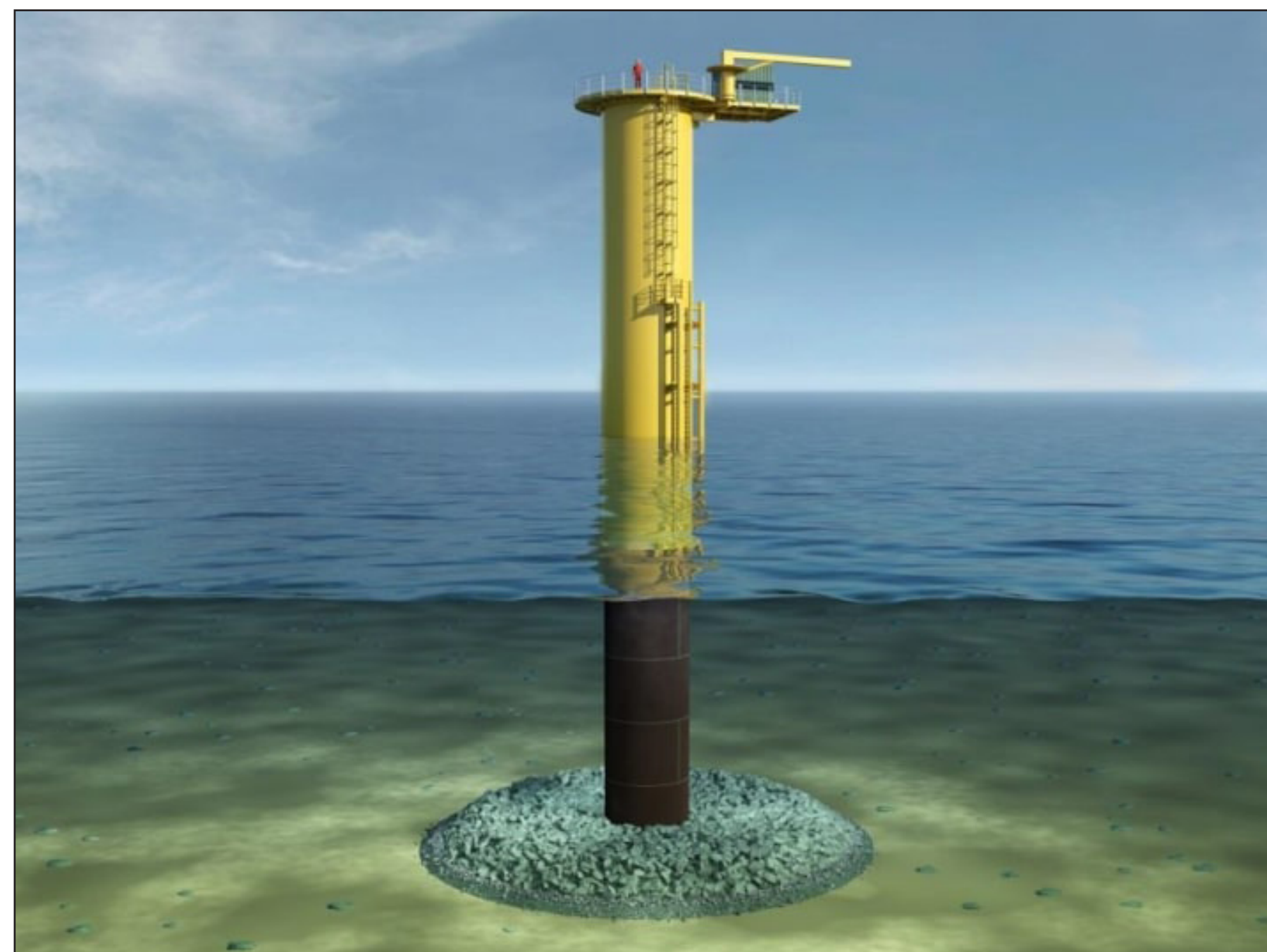
# Project Design Envelope

A project design envelope is a permitting approach that allows a lessee to define a range of design parameters within a Construction and Operations Plan. BOEM then analyzes the maximum impacts that could occur within the range of the design parameters — referred to as the “maximum design scenario.”

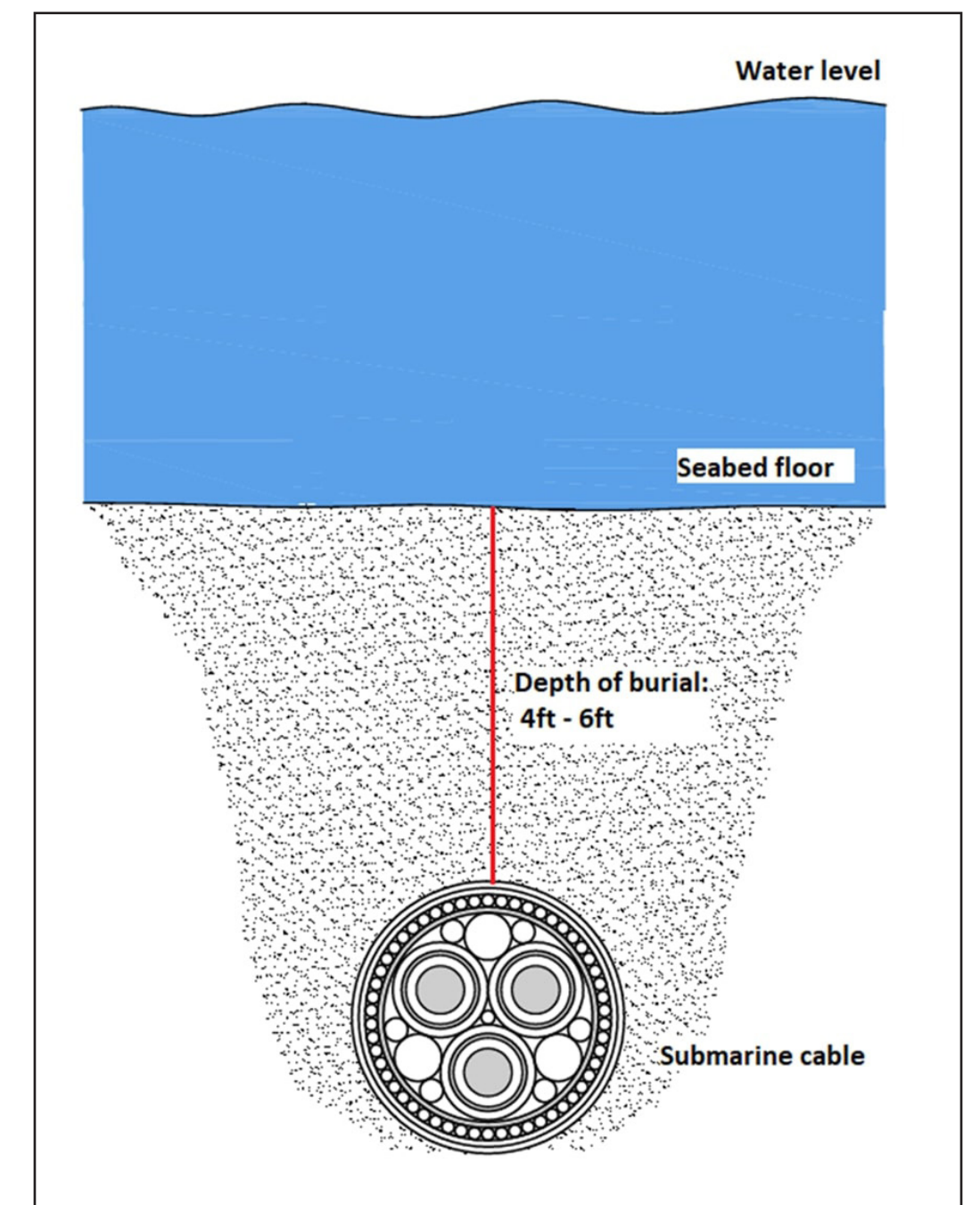
Representative design parameters for the Ocean Wind project are outlined below. Refer to Ocean Wind’s Construction and Operations Plan for a detailed explanation of the project design envelope.



Maximum Design Wind Turbine



Monopile Foundation with Transition Piece



Indicative Cable Burial

Project Component	Representative Project Design Parameters
Wind Turbine Generators	<ul style="list-style-type: none"> <li>• Up to 98 wind turbine generators with rotor diameter up to 788 feet.</li> <li>• Upper blade tip height up to 906 feet above MLLW; lowest blade tip height 70.8 feet above MLLW.</li> </ul>
Turbine Foundations	<ul style="list-style-type: none"> <li>• Monopile foundations with scour protection.</li> <li>• Foundation piles installed using a pile driving hammer and/or drilling techniques.</li> </ul>
Offshore Substations	<ul style="list-style-type: none"> <li>• Up to three offshore substations on monopile or piled jacket foundation substructure.</li> <li>• Foundation piles installed using a pile driving hammer and/or drilling techniques.</li> <li>• Maximum 275 kV substation interconnector cables with target burial depth of 4 to 6 feet, and options for cable protection.</li> </ul>
Inter-Array Cables	<ul style="list-style-type: none"> <li>• Maximum 170 kV cables with target burial depth of 4 to 6 feet.</li> <li>• Cable protection (e.g., rock placement, concrete or fronded mattresses, rock bags, seabed spacers).</li> </ul>
Offshore Export Cables	<ul style="list-style-type: none"> <li>• Maximum 275 kV cables with a target burial depth of 4 to 6 feet.</li> <li>• Two export cable route corridors to Oyster Creek and BL England.</li> <li>• Armoring or cable protection may be used.</li> </ul>
Landfalls and Onshore Export Cable System	<ul style="list-style-type: none"> <li>• Alternate landfall and onshore cable route options.</li> <li>• Open cut or trenchless (e.g., HDD, direct pipe, or auger bore) installation at landfall.</li> </ul>
Onshore Substations and Interconnector Cable	<ul style="list-style-type: none"> <li>• Two onshore substations with associated infrastructure.</li> <li>• Underground cable and overhead transmission options to connect onshore substations to the existing grid.</li> </ul>

HDD = horizontal directional drilling; kV = kilovolt; MLLW = mean lower low water.