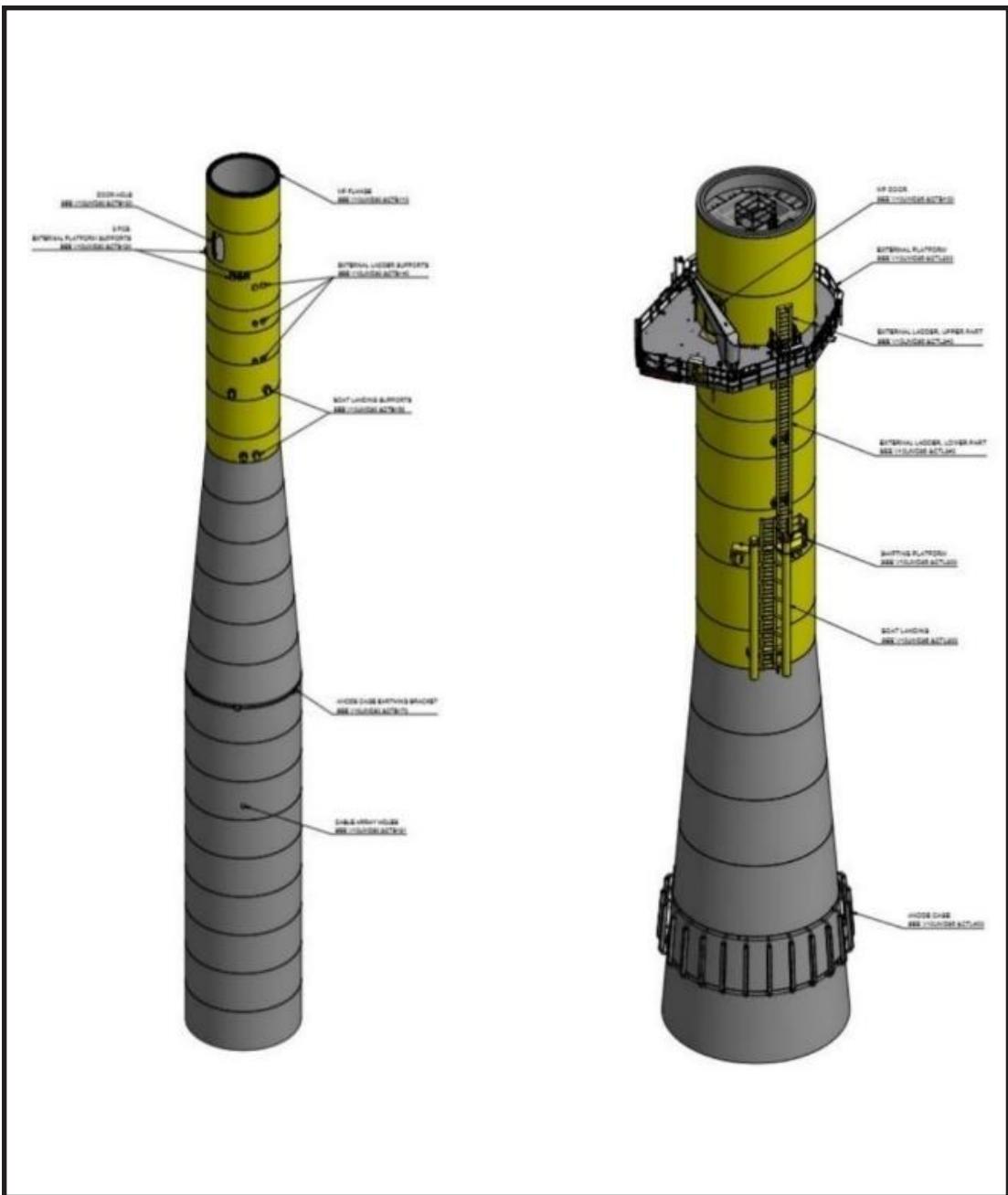


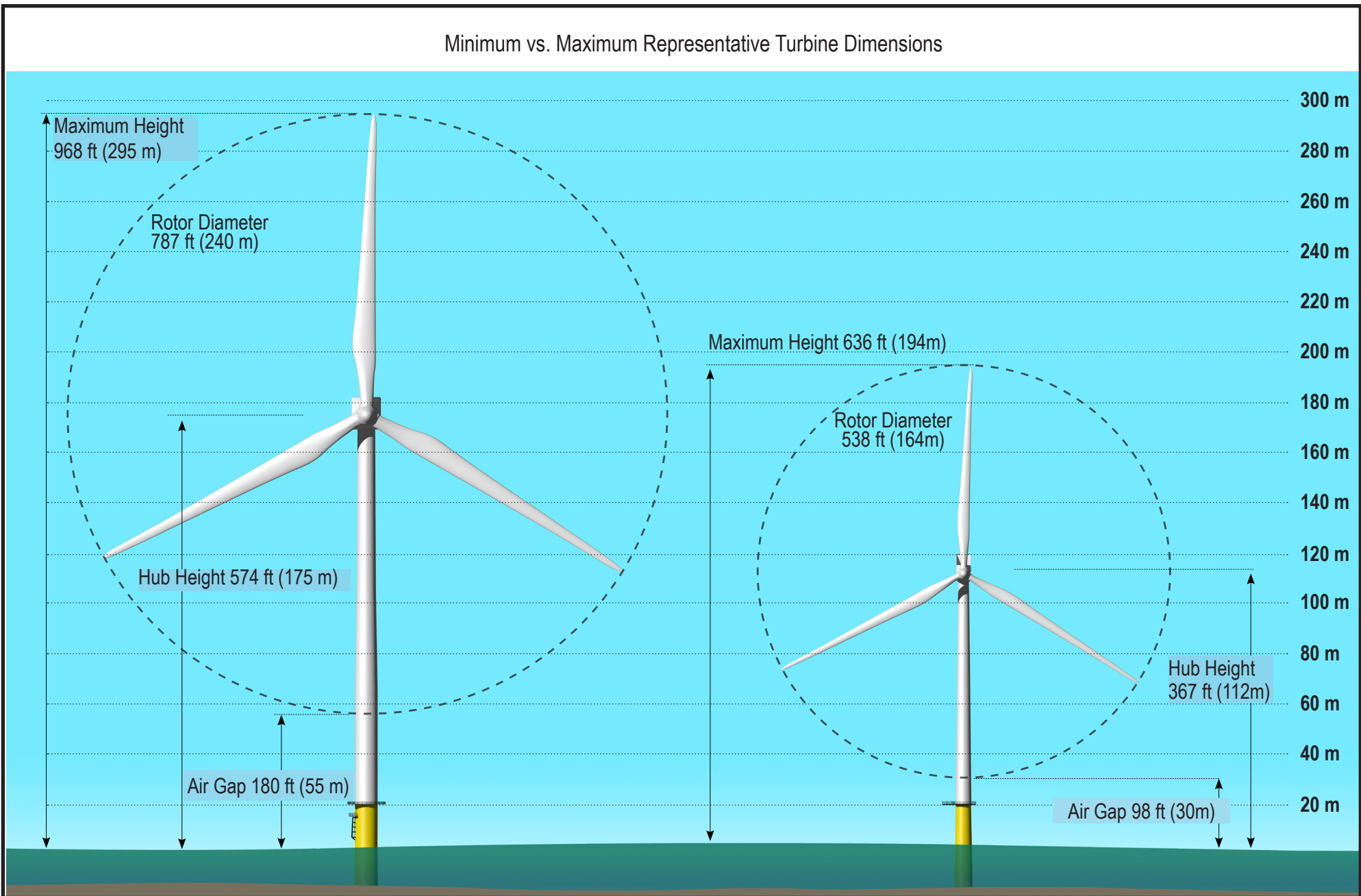
Sunrise Wind Offshore Wind Farm

Project Design Envelope

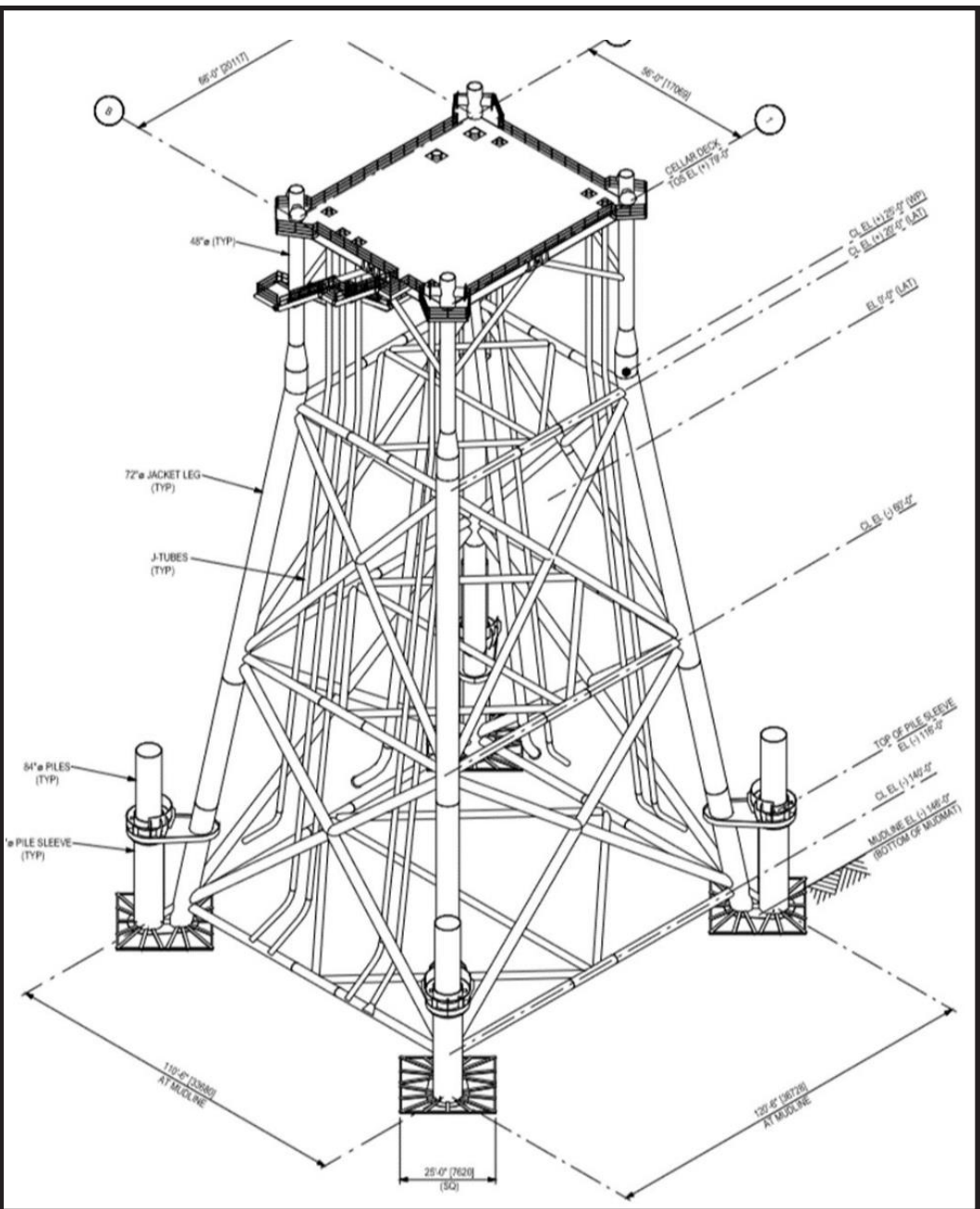
A project design envelope is a permitting approach that allows a lessee to define a range of design parameters within a Construction and Operations Plan. BOEM then analyzes the maximum impacts that could occur within the range of the design parameters — referred to as the “maximum design scenario.” Representative design parameters for the Sunrise Wind project are outlined below. Refer to Sunrise Wind’s Construction and Operations Plan for a detailed explanation of the project design envelope.



Conceptual Monopile



Conceptual Rendering of the Min and Max WTGs



Conceptual Piled Jacket Foundation

Project Component	Representative Project Design Parameters
Wind Turbine Generators	- Up to 122 wind turbine generators with rotor diameter up to 787 feet. - Upper blade tip height up to 968 feet from MSL; lowest blade tip height 98 feet from MSL.
Turbine Foundations	- Monopile foundations with scour protection. - Foundation piles installed using impact pile driving and/or vibratory pile driving.
Offshore Substations	- One offshore converter substation on piled-jacket foundation structure (up to 8 legs). - Foundation piles installed using impact pile driving and/or vibratory pile driving techniques.
Inter-Array Cables	- Maximum 161 kV cables with target burial depth of 3 to 7 feet. - Cable protection (e.g., rock placement, concrete or fronded mattresses, rock filter bags, grout bags).
Offshore Export Cables	- Consist of 2 cables bundled together with fiber optic cable; target burial depth of 3 to 7 feet. - Three route options being explored to join with onshore transmission cable at Smith Point County Park. - Armoring or sheathing to protect cable from damage.
Landfalls and Onshore Export Cable System	- Alternate landfall and onshore cable route options under consideration. - HDD and trenching techniques planned for installation at landfall.
Onshore Substations and Interconnector Cable	- One onshore converter station and one onshore interconnection cable with interconnection at existing Holbrook Substation - HDD and pipe jacking techniques to be used for underground burial

MSL = Mean Sea Level; kV = kilovolt HDD= Horizontal directional drilling