



6.2.1 Project Components

6.2.1.1 Onshore Export Cable

Onshore cables will connect with offshore cables at TJBs, as described for cable landfall in Section 6.2.2.1, and carry electricity to the substation. Each three-core submarine cable will be separated and spliced into three separate single-core cables within the TJBs. Each of these single-core cables comprise a single circuit of the onshore transmission cable system. The cables will consist of copper or aluminum conductors wrapped with materials for insulation protection and sealing. From the TJB the onshore transmission cable system will be contained within an underground duct bank to the new proposed onshore substation.

Onshore cables would be buried and housed within one duct bank, which would require a construction corridor and a smaller permanent easement as shown in **Table 6.2.1-1**. This table provides maximum design parameters for onshore export cables which will be finalized during the design phase as available land and engineering constraints are better defined.

Table 6.2.1-1 - Onshore export cable parameters.

Parameter	Maximum Design Parameters
Type of cable	XLPE, FF Copper and Aluminum
Diameter of cable (inches)	8
Diameter of cable ducts (inches)	13
Maximum voltage (kV)	275
Target burial depth (ft)	4*
Construction Areas and Volumes	
Oyster Creek	
Length of onshore cable route (miles)	5.3
Cable trenches	2
Total onshore cables	6
Corridor width - permanent (ft)	7
Corridor width - temporary and permanent used for construction (ft)	40
Corridor area - permanent (acres)	4
Corridor area - temporary and permanent used for construction (acres)	25
Number of joint bays and splice vaults/grounding link boxes	34
Joint bays total area (acres)	2
Joint bays spoil volume per pit (cubic yards)	3,000
Joint bays spoil total volume (cubic yards)	97,200
Link bays total area (acres)	0.03
Link bays spoil volume per pit (cubic yards)	9
Link bays spoil total volume (cubic yards)	311
Utility bridge length (ft)	200
Utility bridge height and width (ft)	10