

Cumulative Effects Analysis

The following cumulative effects simulations portray the foreseeable future condition of offshore wind energy development in the Massachusetts Wind Energy Area and the Rhode Island/Massachusetts Lease Areas. The visualizations illustrate how individual projects contribute to incremental changes to the viewshed that may occur over a defined timeframe. In addition to cumulative visual effects assessment to seascapes, landscapes, and the general public, this analysis also supports the methodology used for assessing cumulative effects to historic properties. The information is also instrumental during Tribal consultations when explaining incremental changes to the viewshed and how a particular project fits into the overall context of the leasing area.

This intervisibility assessment verifies the cumulative effect of nine projects that contribute to change in the ocean character within the viewshed study area. The assessment also considers the incremental effect of sequential construction of individual projects over time. The following contributing projects are evaluated in a series of simulations illustrating progressive visibility over three defined construction periods.

2023 Project Construction

- Vineyard Wind 1 (OCS-A 0501)
- South Fork Wind (OCS-A 0517)
- Revolution Wind (OCS-A 0486)
- Sunrise Wind (OCS-A 0487)

2024/2026 Project Construction

- New England Wind (Phase 1)
- New England Wind (Phase 2)

2024-2030 Project Construction

- Mayflower Wind (OCS-A 052)
- Vineyard Wind NE (OCS-A 0522)
- Beacon Wind (OCS-A 0520)
- Bay State Wind (OCS-A 0500)

Five Key Observation Points (KOPs) are evaluated. These are:

Martha's Vineyard

- Aquinnah Cultural Center
- Peaked Hill Reservation
- South Beach

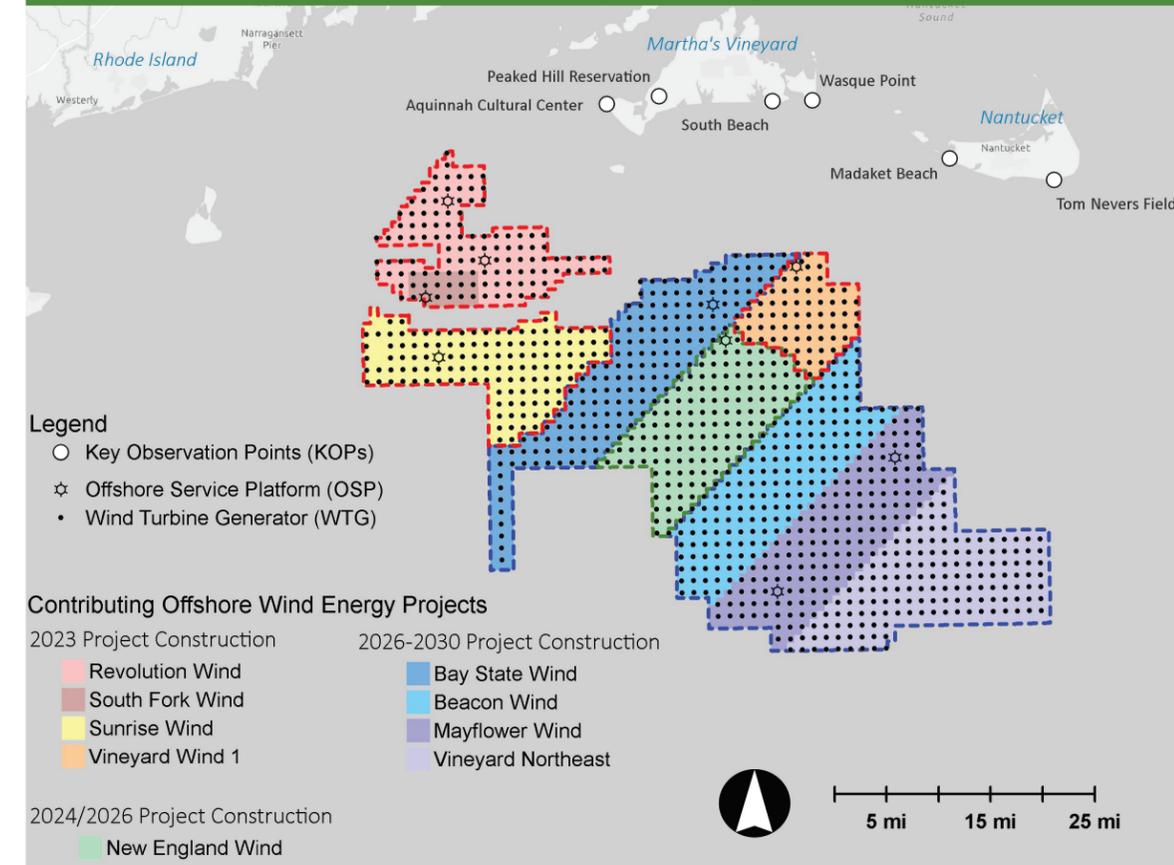
Nantucket

- Madaket Beach
- Tom Nevers Field

For each of the five KOPS, five cumulative effects simulations are presented. These are:

- 2023 Project Construction
- 2024/2026 Project Construction
- 2026-2030 Project Construction
- Full buildout without New England Wind
- New England Wind without foreseeable future changes

WTG and OSP Layout Configuration



Project Elements Evaluated

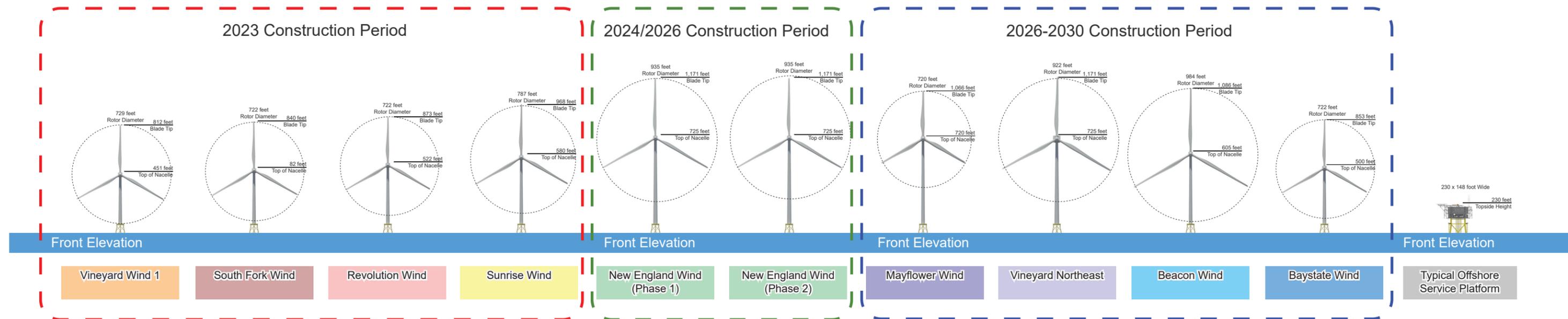


Figure C-1
CUMULATIVE EFFECTS ANALYSIS
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