

Carolina Long Bay Project Update to Fishers September 2024

Introduction

TotalEnergies Carolina Long Bay (TotalEnergies) – holder of Lease OCS-A 0545 – and Cinergy Corp, a direct affiliate of Duke Energy (Duke Energy)¹ – holder of Lease OCS-A 0546 – continue to collaborate on site assessment activities including engagement with agencies, Tribes, and other relevant stakeholders. Please find below a joint update on recent development activities.

Project Websites

Duke Energy
<https://www.duke-energy.com/energy-education/how-energy-works/wind-energy/offshore-wind-energy>

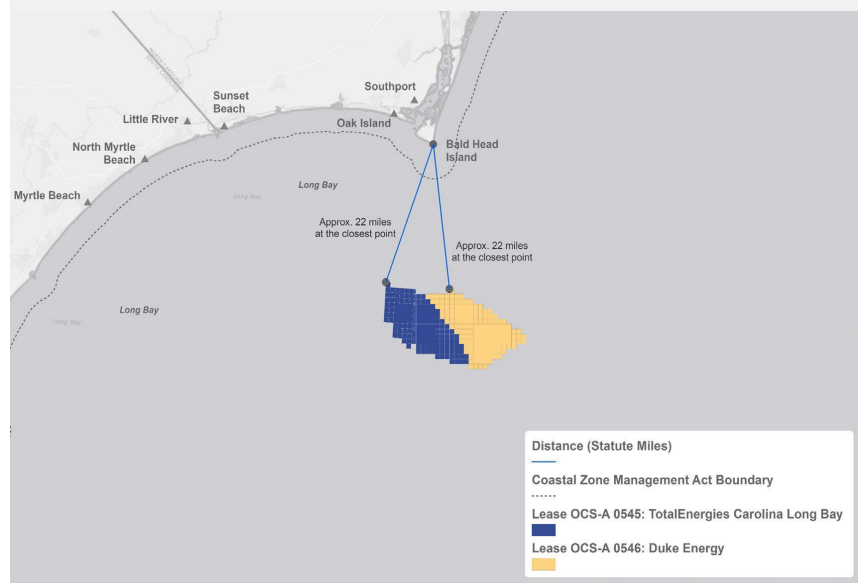
TotalEnergies
www.carolinalongbay.com

2023 Survey Overview

Duke Energy and TotalEnergies successfully carried out a preliminary survey in 2023. NV5-Geodynamics, a North Carolina based company with offshore wind and marine expertise, conducted the surveys out of the Safe Harbor South Harbour Village in Southport, NC. Survey activities occurred offshore from August 18 - August 21, 2023. The survey sites included three 300-meter (m) squares centered on the proposed buoy deployment locations.

Measures were taken to protect marine mammals including dedicated Protected Species Observers (PSOs) and a voluntary vessel speed restriction of ten (10)

Figure 1: Carolina Long Bay Offshore Wind Leases



knots. The PSOs observed a total of 48 animals (all dolphins) during the ~59 hours of monitoring during the surveys.

- Survey Equipment included:
- Sidescan Sonar (SSS)
 - Multibeam Echosounder (MBES)
 - Magnetometer in Transverse Gradiometer configuration (TVG)
 - Sub-bottom Profiler (SBP)
 - Young-Modified Van Veen Grab (0.04m²)
 - Video transects

Planned Buoy Equipment

Buoy deployment is not expected before 2026.

Three buoys are anticipated:

Two Floating Light Detection and Ranging (Floating LiDAR) Buoys - One within each lease area to collect wind speed data and other measurements to support the design and siting of wind turbines.

Additional sensors on buoys:

- Motus stations
- Passive Acoustic Monitoring (PAM)
- Fish tag acoustic receivers
- Water quality sensors
- Acoustic Doppler Current Profiler (ADCP)

One Environmental Buoy:

- Centrally located between the lease areas to collect data on presence of wildlife, which will include a third PAM sensor.

Table 1: Planned Buoy Locations

Buoy Type	Latitude	Longitude
Floating LiDAR (Lease OCS-A 0545)	33.477819N	78.0119996W
Floating LiDAR (Lease OCS-A 0546)	33.447271N	77.830528W
Environmental Buoy	33.442476N	77.913567W

¹ Lease area OCS-A-0546 Duke Energy Renewables Wind, LLC, was assigned to Cinergy Corp. on July 12, 2023.

Ongoing Outreach

TotalEnergies and Duke Energy are conducting ongoing engagement with agencies, Tribes (both federally recognized and non-federally recognized) and stakeholders including commercial and recreational fishers, marine industries, environmental non-governmental organizations, local community officials, and offshore wind industry organizations.

Engagements are guided by the communications plans that can be found on the project websites:

- Fisheries Communication Plans
- Agency Communication Plans
- Joint Native American Tribal Communication Plan

Each lessee – Duke Energy and TotalEnergies – submits bi-annual Progress Reports to BOEM detailing recent outreach activities for the previous six months. All past

Progress Reports are posted to the BOEM website at [Carolina Long Bay | Bureau of Ocean Energy Management \(boem.gov\)](#). The December 2023 Progress Reports are posted on the website and the May 2024 Progress Reports are still under BOEM review.

Additional Resource – FishFORWRD ([Fish FORWRD Database | ROSA \(rosascience.org\)](#)) is a catalog of all East Coast research, monitoring efforts, and stated research needs for offshore wind, fish, and fisheries developed in partnership with the Responsible Offshore Science Alliance (ROSA), Attentive Energy (TotalEnergies' New York Bight Project) and WSP.

We Need Your Feedback

TotalEnergies and Duke Energy have created fisheries maps to gather spatial information from Fishers and other ocean users on

the areas offshore North Carolina and South Carolina that they routinely use for fishing or other recreational purposes. The maps graphically depict the lease areas, so that stakeholders can visualize their spatial extent and relation to popular landmarks such as the Frying Pan Weather Buoy.

We are requesting feedback on fisheries usage and resources within the lease areas. Information volunteered to us will remain confidential if so desired and will not be shared with other fishers.

If you are willing to mark up a map and identify your fishing and recreation spots, please contact Albie Solana, TotalEnergies Fisheries Liaison (albie.solana@external.totalenergies.com) or Katherine McGlade, Duke Energy Fisheries Liaison (Katherine McGlade (seachangehatteras@gmail.com)).

Figure 2: Carolina Long Bay Fisheries Map

