



Avangrid Renewables

*Park City Wind & Commonwealth Wind
Update to the Barnstable Town Council*

March 2022

Internal Use



Welcome: *Pat Johnson, Manager of External Affairs*

Avangrid Introduction & Projects Overview: *Bill White, Offshore CEO*

Partnership with Barnstable: *Ken Kimmell, VP of Development*

Key locations, onshore routes & permitting process: *Hans van Lingen, Massachusetts Permitting Manager*

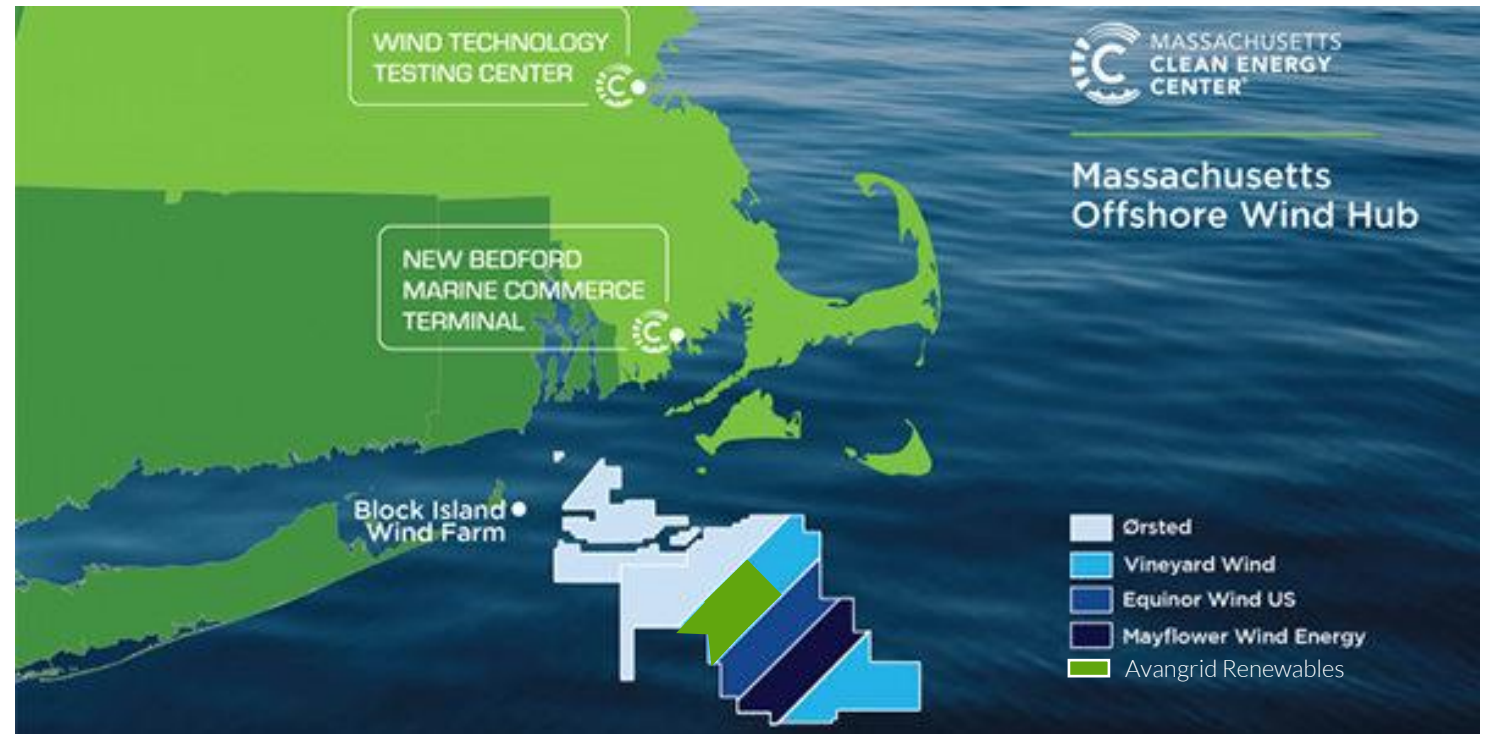
Environmental protection, fisheries, and Tribal outreach: *Megan Higgins, Senior Director for Business Development*

Closing: *Pat Johnson, Manager of External Affairs*

Discussion

Why Offshore Wind?

- New Source of Energy
- Scale of Resource
- Cost Effective
- Massachusetts-Made Energy
- Jobs & Economic Impact
- The Climate Emergency



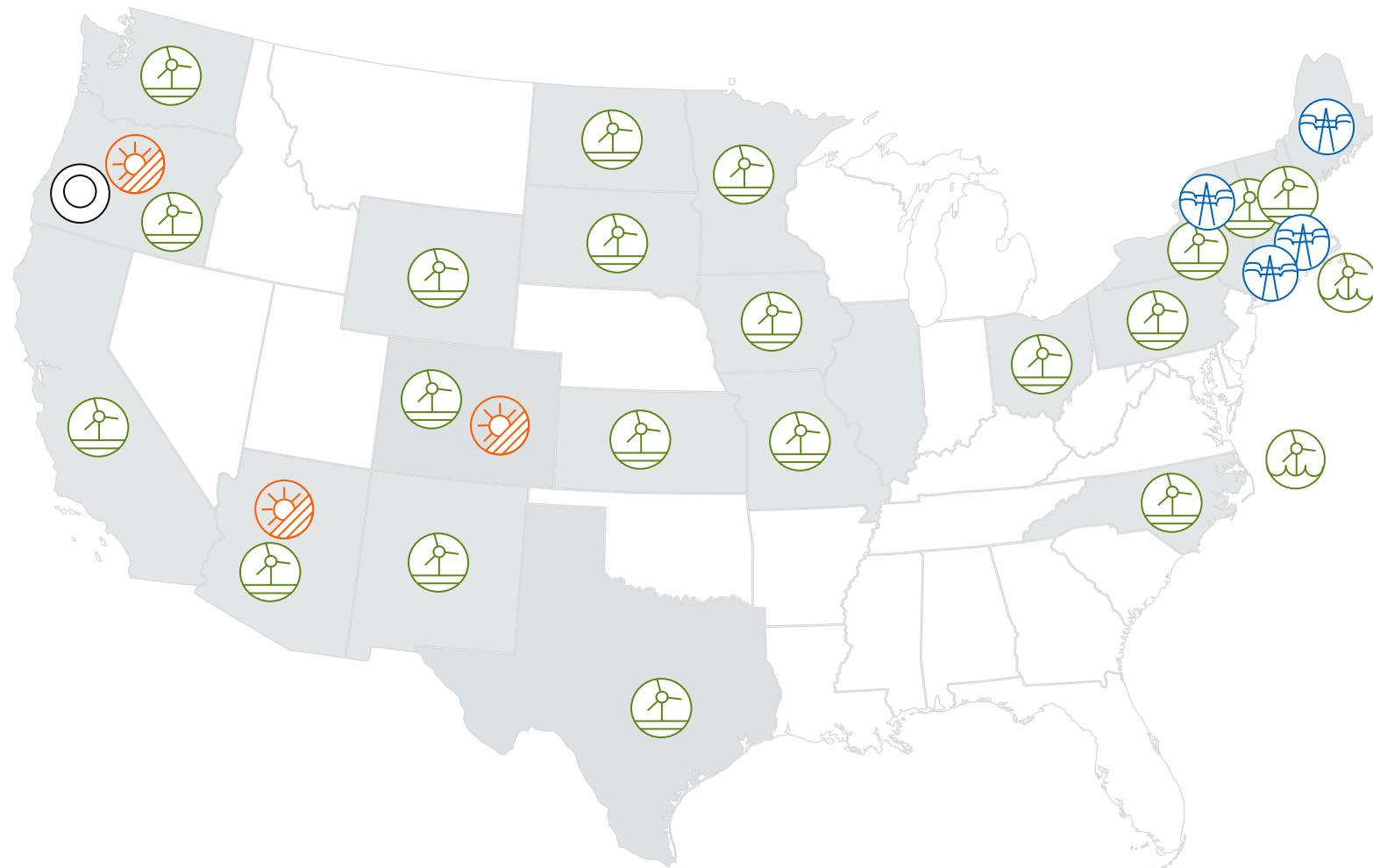
Avangrid Renewables – Onshore & Offshore

 **3rd largest wind operator in U.S.**

 **8 GW**
Wind & Solar in Operation

 **5 GW**
Total offshore wind lease capacity

 **800+ Employees**
in the U.S.



 Wind

 Solar

 Thermal

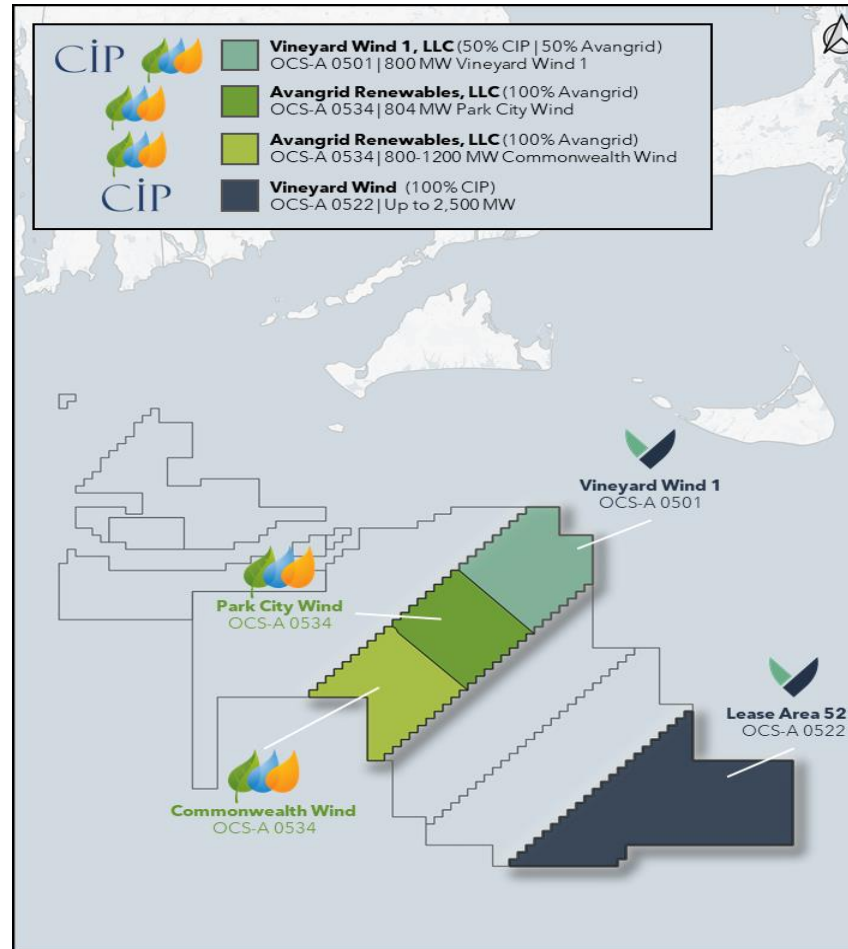
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Internal Use

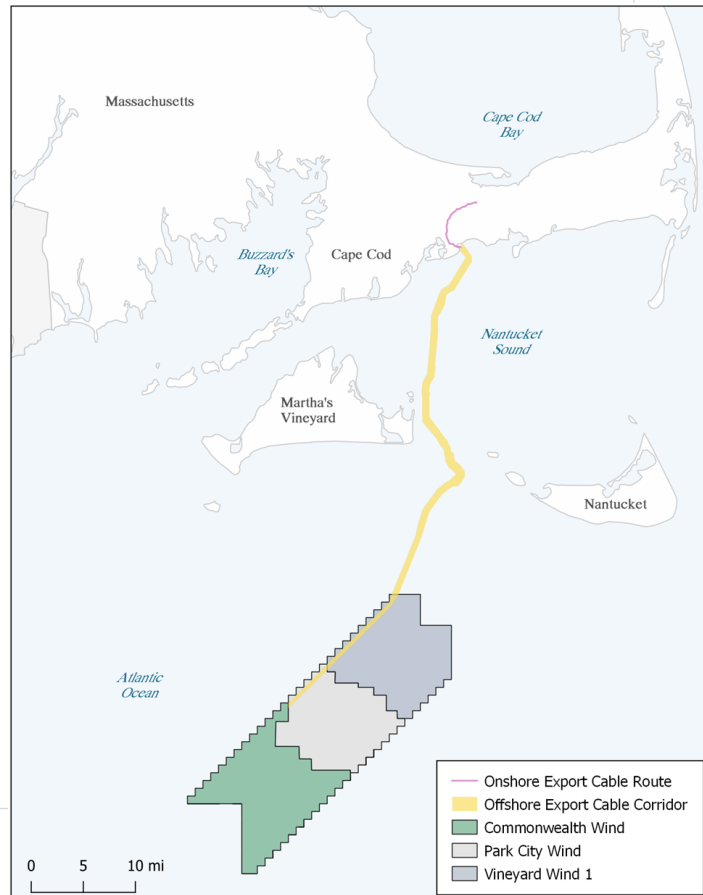
Avangrid Renewables – Offshore Post Vineyard Wind Restructure

OVERVIEW

- **Vineyard Wind 1:** 50% owned
- **Park City Wind:** 100% owned
- **Commonwealth Wind:** 100% owned
 - Almost 3 GW of power, enough for 1.55 million homes
- **Kitty Hawk Wind:** 100% owned



PROJECT LOCATION



KEY PROJECT FACTS

Key Project Benefits

- 1232 MW of clean energy
- Creates 11,000 direct job-years over life of project
- Delivers \$3.2 billion investment
- Powers 750,000 homes with clean energy
- Reduces emissions by 14.8 million tons (removes 323,000 cars)

Key Project Commitments

- Prysmian Cable Manufacturing Factory at Brayton Point, MA
- Offshore Wind Marshalling Port in Salem, MA
- Operations & Maintenance Center in New Bedford, MA
- Diversity, Equity and Inclusion Initiative for workforce & supplier recruitment and training
- Commitment to work with Town of Barnstable on Community Benefits

Transforming Two Coal Power Plants into Offshore Hubs

Avangrid enabling Prysmian Group to invest more than \$200 million to develop full-scale cable manufacturing facility.

Avangrid partnering with Crowley Maritime and the City of Salem to transform Salem Harbor into offshore wind construction port.



Salem Harbor Offshore Wind Marshalling Port



Artist rendering

Factory of the Future:
Subsea Cable Manufacturing at Brayton Point



Ground-breaking ceremony at Covell's Beach for Vineyard Wind One Project

Barnstable
Said Yes!

And all of
New England
will benefit
from your
leadership.



Host Agreement and Tax Revenue

- Host community agreements with the Town of Barnstable for each project which include host community fees; all three offshore wind projects will make Avangrid one of the largest taxpayers in Barnstable, with little demand for town services

Coordination on Sewer Work

- Continued coordination with Barnstable DPW to install underground electric cables with the Town's sewer lines to minimize disruption and help town defray some of its costs.

Minimize Disruption

- Beach and road work during the non-summer months

Environmental Stewardship

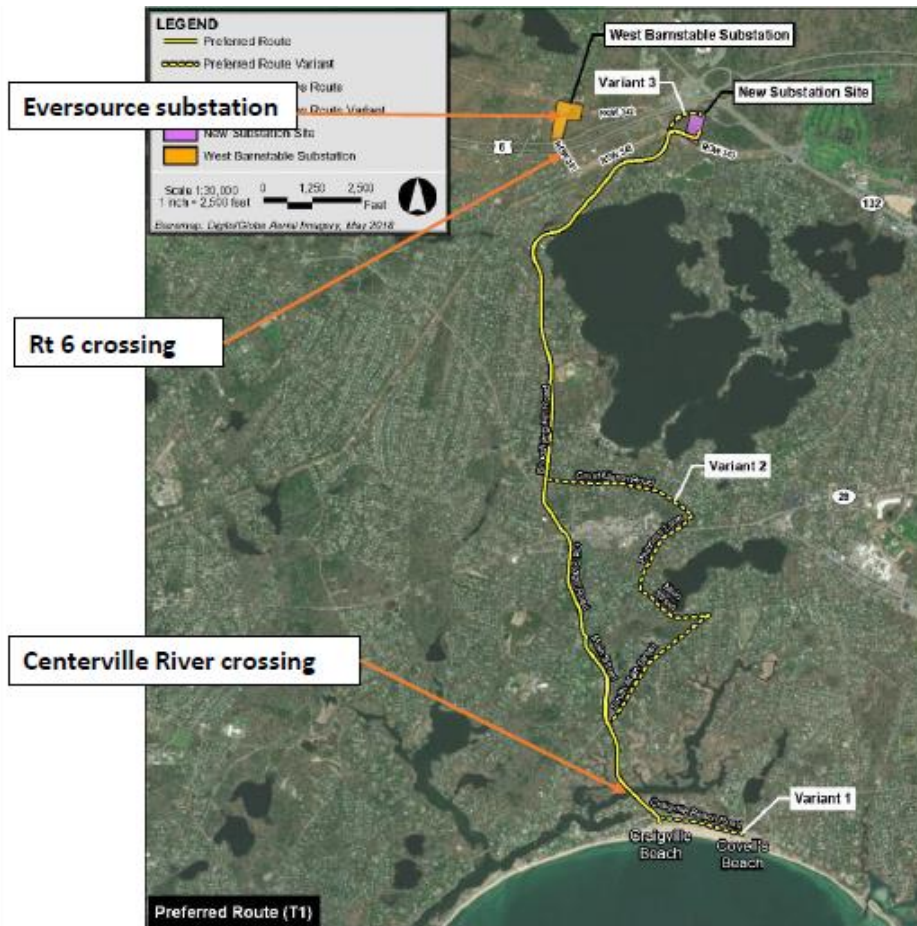
- Build and operate equipment to highest environmental standards to protect Cape Cod's precious resources



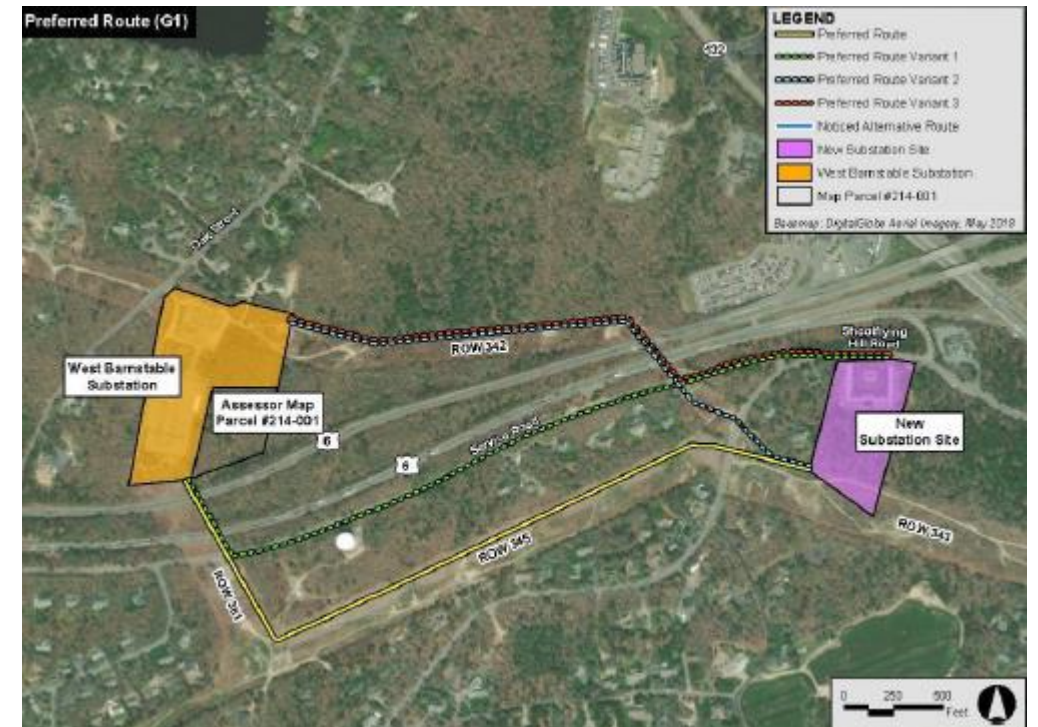
Ground-breaking ceremony at Covell's Beach for Vineyard Wind One Project

Park City Wind

PREFERRED ONSHORE ROUTE



PROPOSED SUBSTATION LOCATION



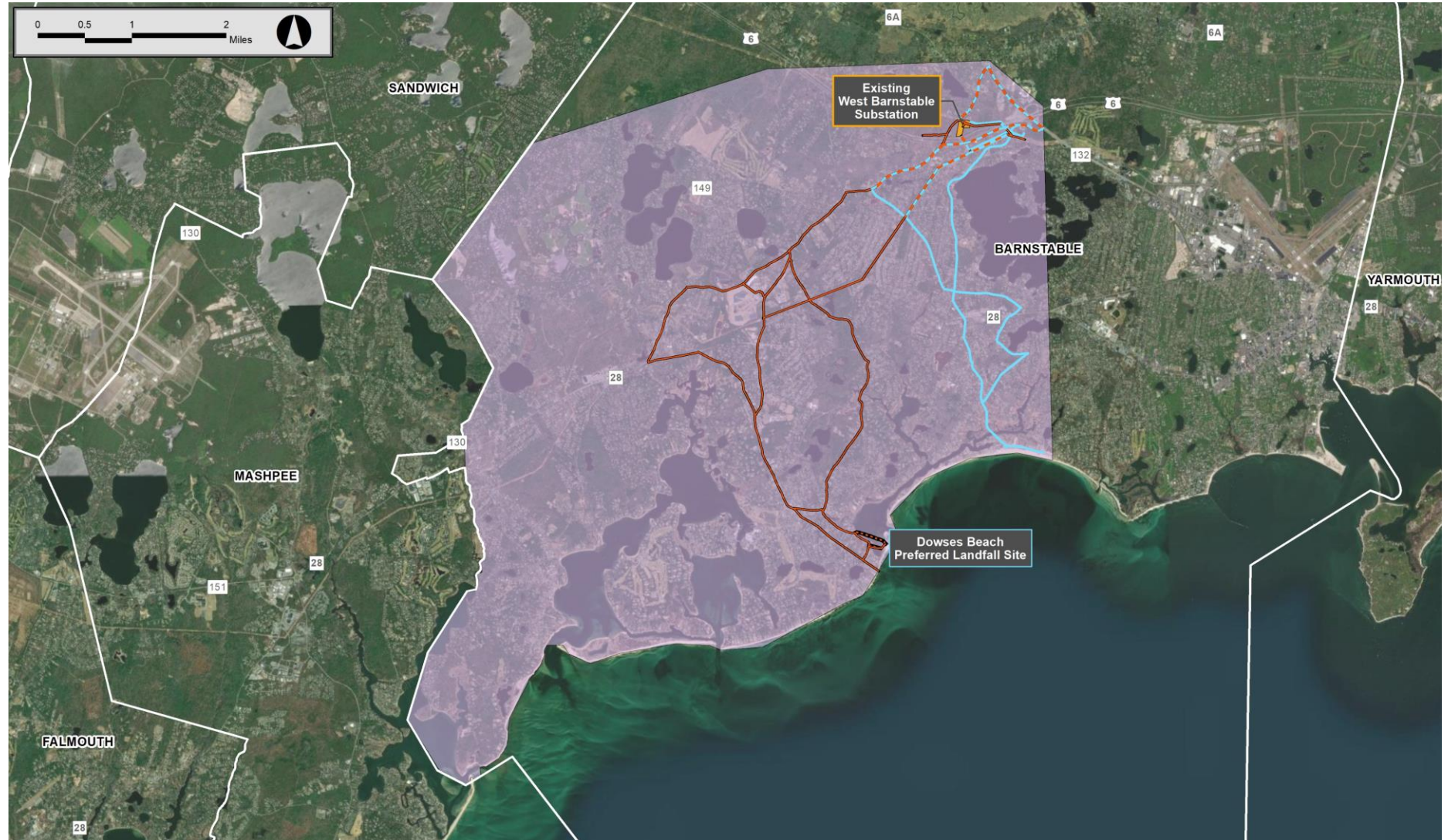
Landfall: Craigville Beach

Substation: Shootflying Hill Road

Commonwealth Wind

**Proposed
Cable
Landfall:
Dowses
Beach**

**Substation:
TBD**



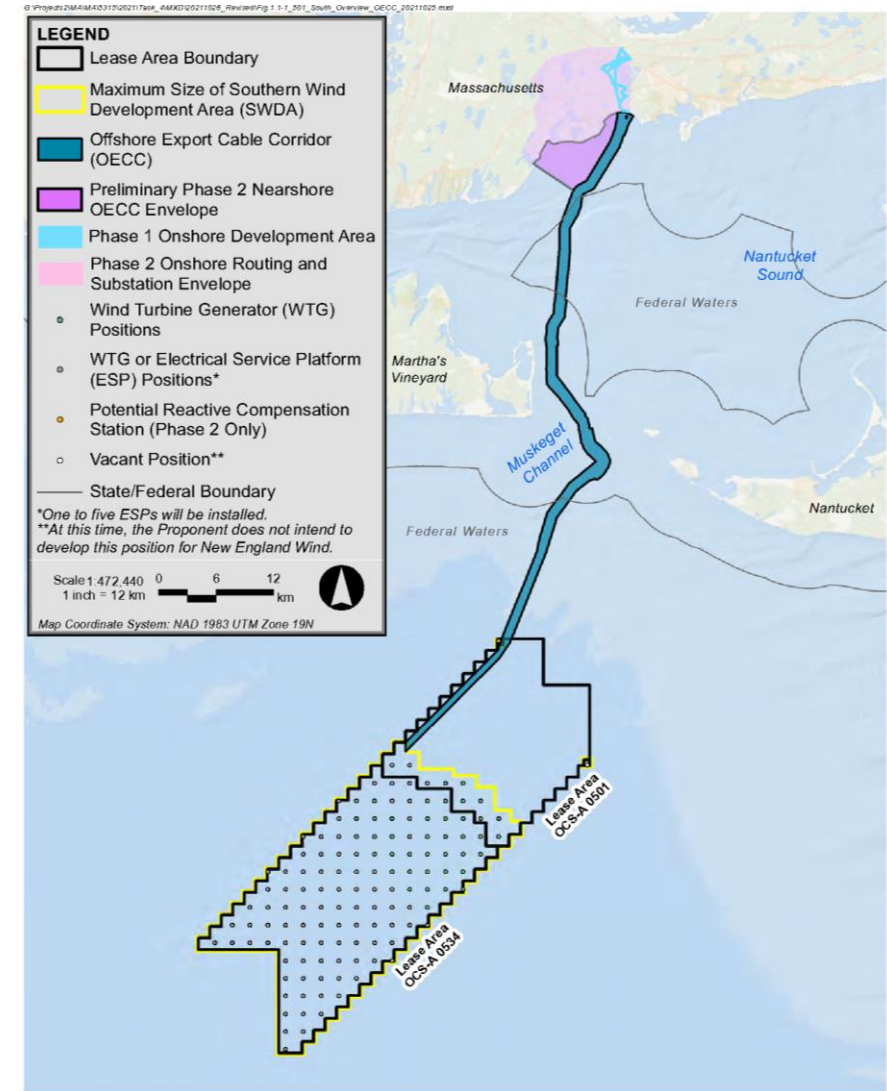
Permitting Timeline

Park City Wind

Project Selection:	December 2019
Federal Permitting:	Active
State Permitting:	Active (began in 2020)
Project Timeline:	Estimated start of onshore installation 2023

Commonwealth Wind

Project Selection:	December 2021
Federal Permitting:	Active
State Permitting:	Expected to initiate in late-2022
Project Timeline:	Estimated start of onshore installation 2024



- **Trawl and drop camera surveys** to provide data for effects of offshore wind development on fish communities.
 - **Abundance estimates** for commercially important species from lease area and a control region; comparison between two areas
 - Examination of benthic macroinvertebrate community and substrate habitat to provide fishery resource managers, marine scientists and fishing communities with an **independent assessment of scallop resources and associated habitats.**
- Turbines will be spaced 1 nautical mile apart in a N-S, E-W square grid pattern for **navigable uninterrupted travel** in multiple directions.



Tribal Engagement

- 7 pre-survey meetings to **solicit input and review** geotechnical and geophysical marine survey plans
- **Consultations** pursuant to National Historic Preservation Act Section 106 re potential impacts to historic or culturally significant areas—onshore and offshore
- **Workforce development opportunities**—building pathways/union labor and protected species observers (PSO) training opportunities

Protection of Threatened Species

- All vessels must have **dedicated observers** for North Atlantic right whales (NARW) and other protected species.
- Requirements to **cease activities** if a protected species is sighted within a certain distance or zone
- Mandatory **vessel speed (< 10 knots) restrictions** in Dynamic Management Areas and from Nov 1 – July 31, during NARW migration
- Vessels traveling over 10 knots must have PSOs on board to **conduct visual and acoustic monitoring** for the presence of marine mammals.

OPEN HOUSE EVENTS (in-person)

Monday, March 28

3:00pm – 4:30pm

Osterville Village Library

Thursday April 14

5:00pm – 7:00pm

Centerville Public Library

Thursday April 28

3:00pm – 4:30pm

Osterville Village Library

OPEN HOUSE EVENTS (virtual)

*Virtual meeting information available at
ParkCityWind.com or CommonwealthWind.com*

Tuesday April 5

7:00pm – 8:00pm

Monday April 25

12:00pm – 1:00pm

We are happy and available to meet with any Barnstable residents or organizations who have questions, concerns or are simply curious.

Email Patrick.Johnson@avangrid.com or call 857-352-2039

Other Members of Our Team

www.ParkCityWind.com and www.CommonwealthWind.com



Caela Howard
Fisheries Liaison
caela.howard@avangrid.com



John Harker
Fisheries Liaison
John.harker@avangrid.com



Nickie Collard-Andrade
Workforce Development &
Supply Chain
nicollette.collard-andrade@avangrid.com



Rose DeCosta
Community Engagement
rosalie.decosta@avangrid.com



Steve Tadros
Community Engagement
Steven.tadros@avangrid.com

Thank you



**AVANGRID
RENEWABLES**