

Vineyard Wind Connector

Cape Cod Commission

May 2, 2019

WHY ARE WE HERE?

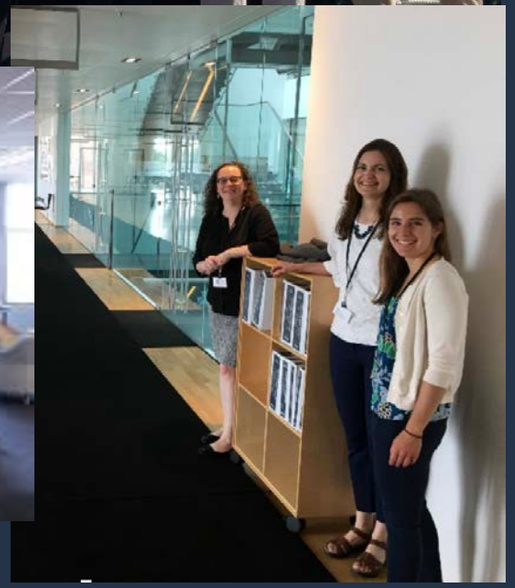
- *"Cape Cod faces threats due to climate change. The region's 586 miles of vulnerable, tidal shoreline is already at risk due to flooding and erosion. Sea level rise and climate change will further exacerbate these challenges, as well as impact how Cape Cod's ecosystems function." - 2018 Regional Policy Plan at ii*

- **2008:** MA passes Global Warming Solutions Act, mandates carbon reductions
- **2014:** Federal Government completes 7-year stakeholder process to site wind lease areas
- **2015:** Vineyard Wind wins federal auction for lease area south of the Islands
- **2016:** MA passes the Energy Diversity Act, bringing offshore wind into the state's energy mix
- **2017:** Vineyard Wind submits project plans; files for state and federal permits
- **2018:** Vineyard Wind selected for first offshore wind contract through competitive bid
- **2019:** State Environmental Impact Report Certification starts local and regional permitting

VINEYARD WIND – WHO WE ARE

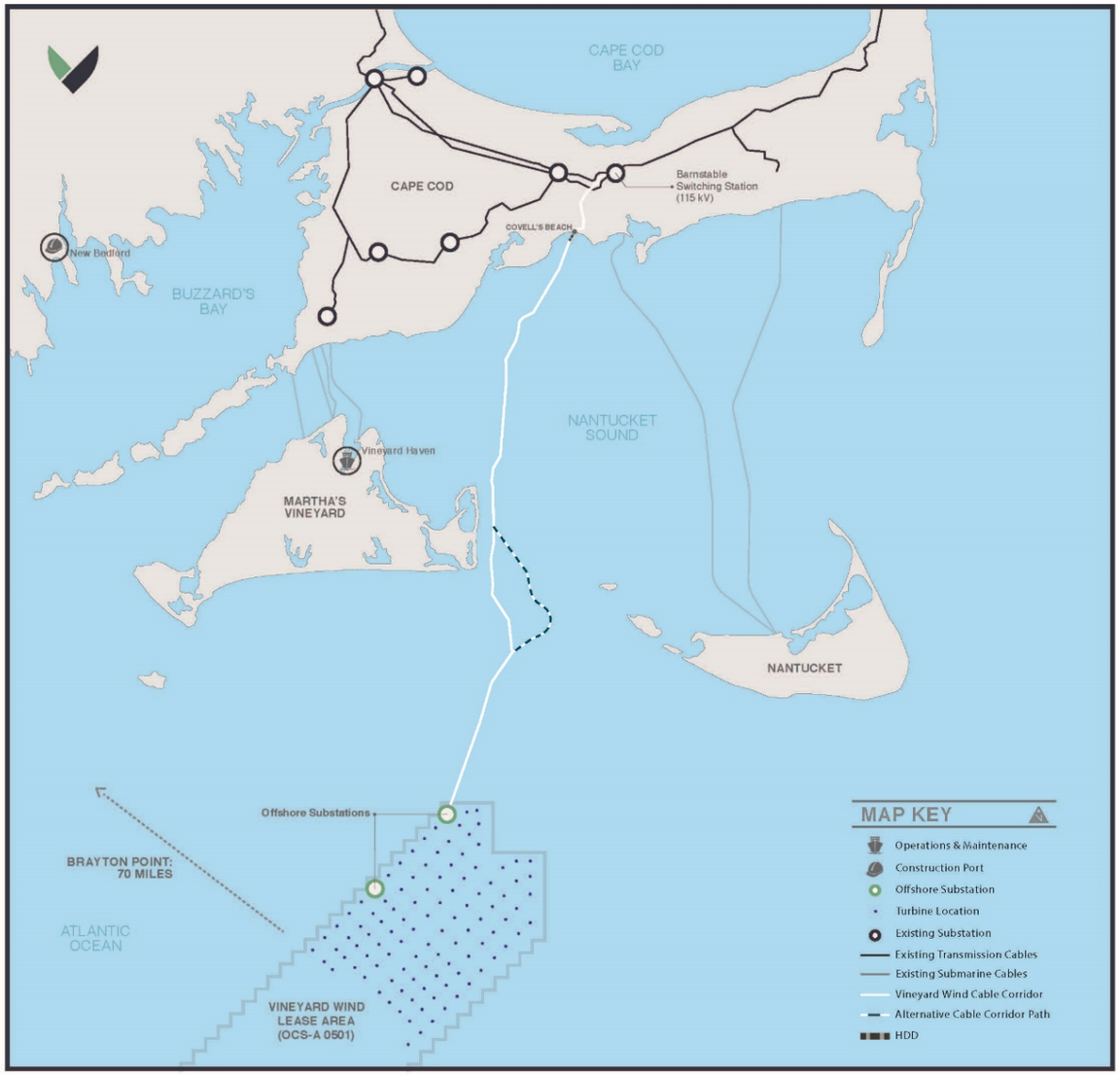






- Partnership of industry leaders
- Locally based team, headquartered in New Bedford
- Proven technical and financial capability
- Meaningful partnerships

OVERVIEW: VINEYARD WIND PROJECT



- 800 MW Wind Farm (federal waters)
  - 35 miles from Cape in Federal waters (Wind Energy Area)
- Export cable in Barnstable County
  - 6.9 miles submarine (in Barnstable waters)
  - 5.3 miles upland in Barnstable roads
  - Underground Cable from shore to Independence Park
- Substation
  - Located adjacent to existing substation in Independence Park

VINEYARD WIND

COLLABORATIVE PLANNING

NRDC

National Wildlife Federation

clf Conservation Law Foundation





- Extensive Consultations and Outreach
  - Advocacy groups, individual stakeholders, elected officials
  - Community forums, office hours, open houses
- Right Whale Protection Agreement with eNGOs
- Endorsements: Cape Cod Chamber, ELM, MCAN, APCC, Environment MA, Vineyard Conservation Society, Cape Cod Climate Change Collaborative, Cape and Islands legislative delegation
- Host Community Agreement with Barnstable

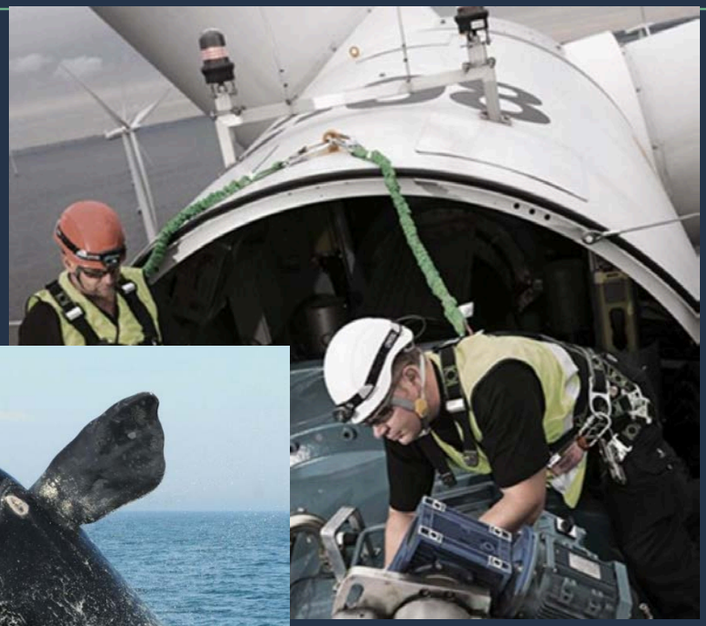
HOST COMMUNITY AGREEMENT: BARNSTABLE

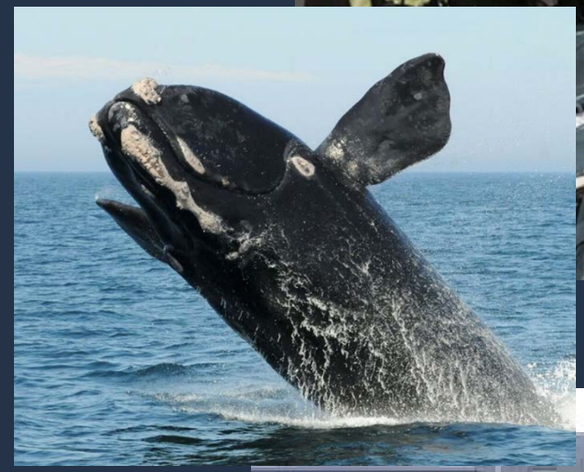
- **Result of extensive discussions with town staff**
- Seasonal construction restrictions
- Parameters and design standards for substation containment
- $16 million commitment to mitigation payments
- Repaving of Town roads, Covell's lot
- New bath house at Covell's Beach



PROJECT BENEFITS

- **Increased Local Revenue**
  - $16M supplemental payments, property tax revenue
- **Offshore Wind Accelerator Program**
  - $10M Infrastructure fund, $2M Windward Workforce
- **Marine Mammal Innovation Fund**
  - $3M to develop protections for marine species
- **Climate Change Benefits**
  - 1.6 Million Tons CO_2 offset per year
- **Electricity Costs**
  - $1.4 Billion in ratepayer savings estimated by MA
- **Improved Grid Reliability**
  - Substantial energy resources at the edge of the grid
- **Resiliency**
  - $15 Million for microgrid, battery storage projects
- **Support for MA Clean Energy Policies**
  - 2008 GWSA, 2016 Energy Diversity Act



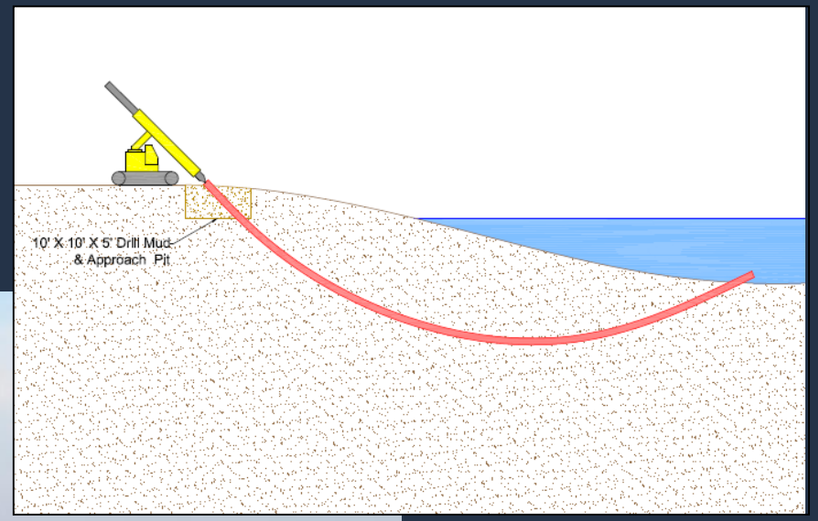




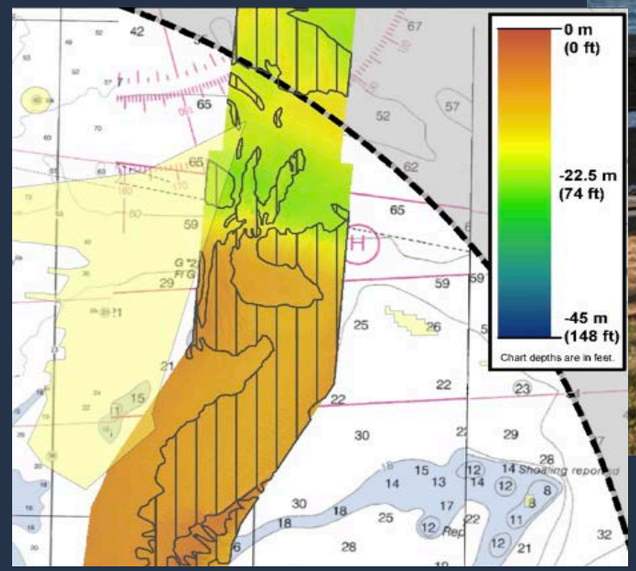
VINEYARD WIND

VINEYARD WIND CONNECTOR - OFFSHORE









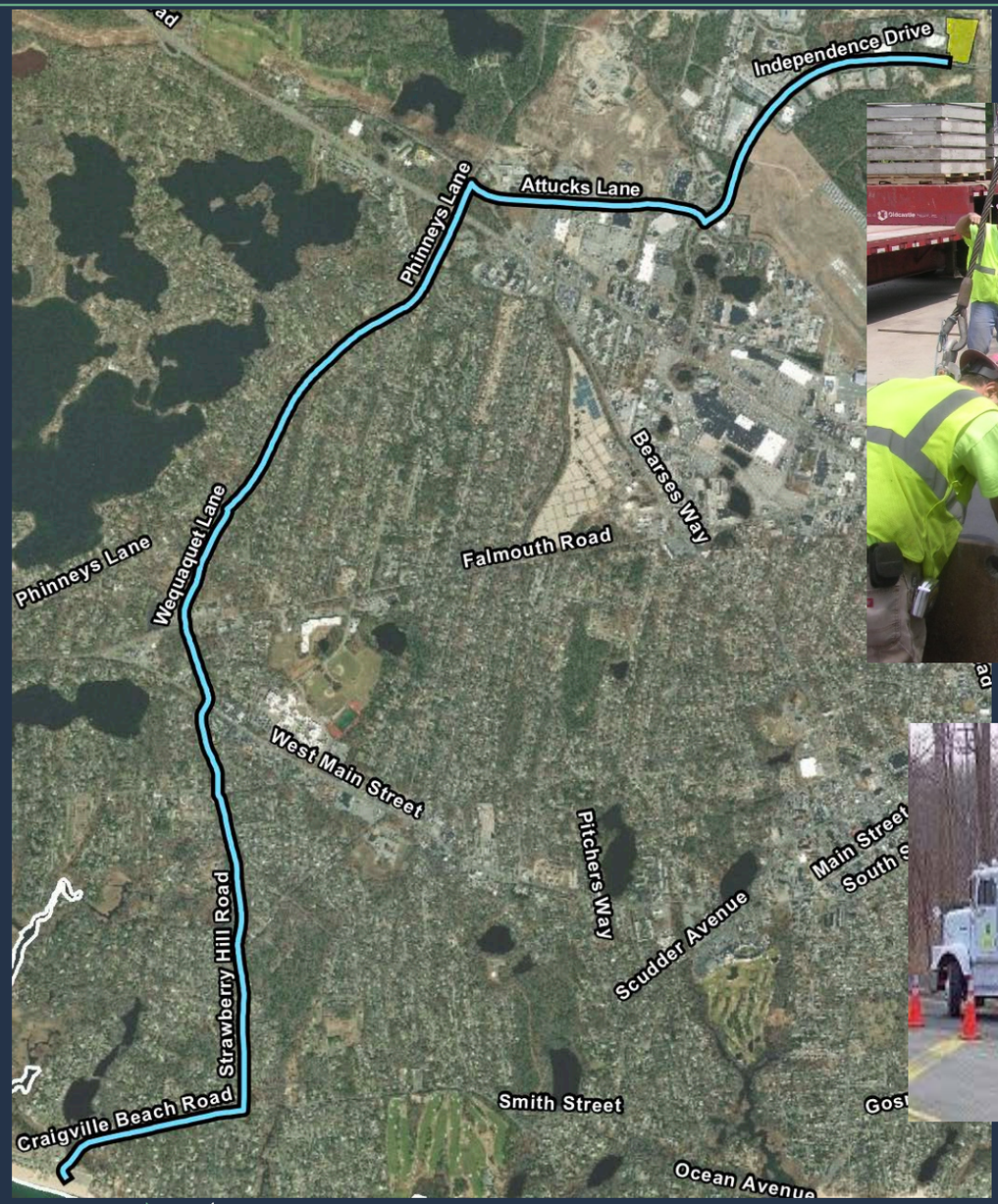


VINEYARD WIND

VINEYARD WIND CONNECTOR - ONSHORE











VINEYARD WIND

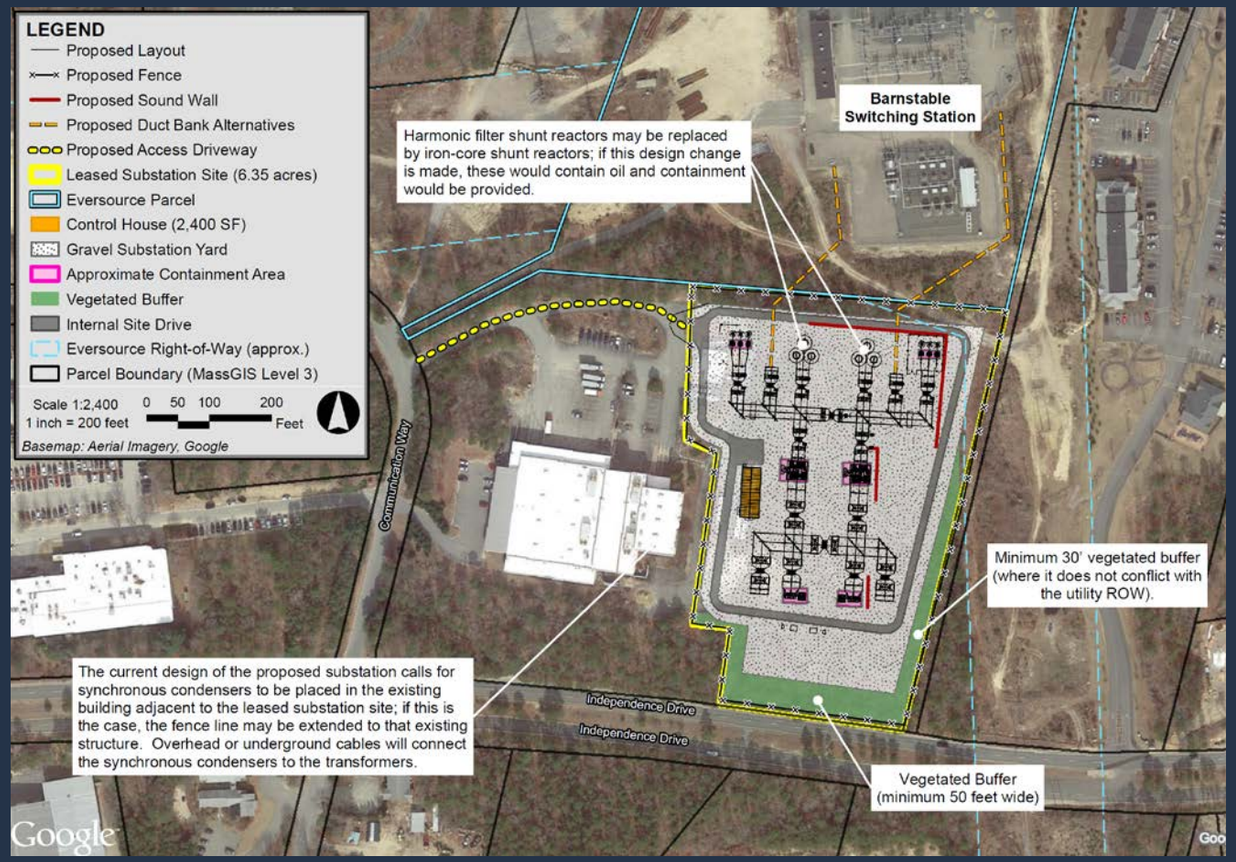
VINEYARD WIND CONNECTOR - ONSHORE



KALMUS BEACH, HYANNIS (NANTUCKET CABLE LANDFALL)

VINEYARD WIND

VINEYARD WIND CONNECTOR - SUBSTATION

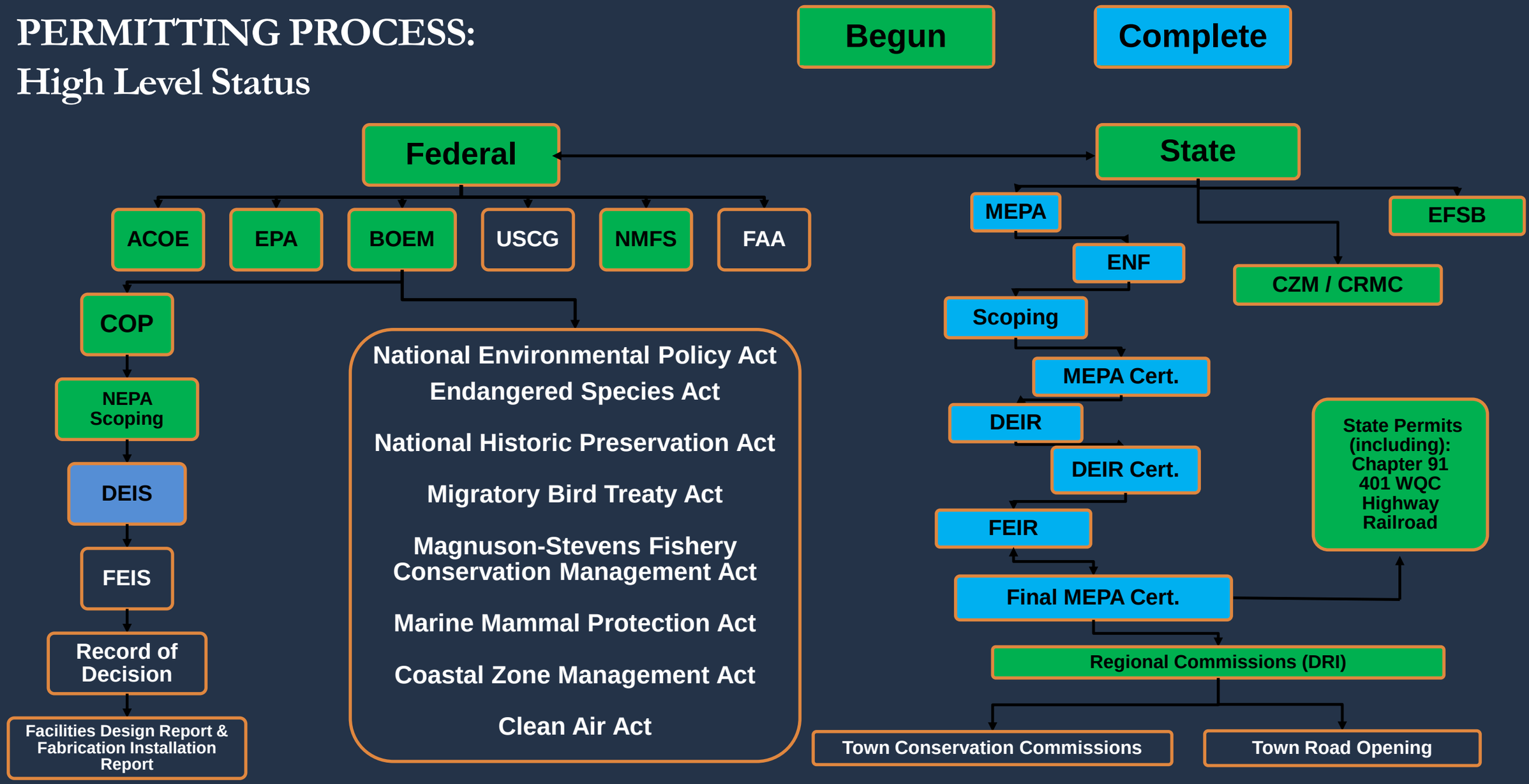




Rendering of east side of substation site from Village Green Apartments

VINEYARD WIND

PERMITTING PROCESS:
High Level Status



VINEYARD WIND

CAPE COD COMMISSION REVIEW

Development of Regional Impact

- Consistency with Regional Policy Plan
- Consistency with municipal bylaws and plans
- Benefits outweigh detriments

REGIONAL POLICY PLAN CONSISTENCY

RPP Growth policy "supports the vision for the future of Cape Cod as a place of vibrant, sustainable, and healthy communities and a protected natural environment"

Barnstable County Growth Policy:

Growth should be focused in centers of activity and areas supported by adequate infrastructure and guided away from areas that must be protected for ecological, historical or other reasons. Development should be responsive to context allowing for the restoration, preservation and protection of the Cape's unique resources while promoting economic and community resilience.

RPP CONSISTENCY – NATURAL SYSTEMS

Natural Systems

Water Resources
Ocean Resources
Wetland Resources
Wildlife & Plant habitat
Open space

- HCA provides for $16 million in funding for Barnstable (Town has dedicated to its Water Stabilization Fund)
- Site design includes secondary containment above industry standards to ensure no impact to water supply
- No permanent impacts to wetlands or rare species habitat
- Comprehensive protective measures during construction to avoid impacts (benthic habitat monitoring plan, erosion control plan)

RPP CONSISTENCY – BUILT SYSTEMS

Built Systems

Community Design
Coastal Resiliency
Capital Facilities & Infrastructure
Transportation
Energy
Waste Management

- New source (800 MW) of clean renewable energy
- Increase reliability of regional grid
- Siting is context sensitive/consistent with planning
- BMPs to ensure no impacts to transportation systems (incl. TMPs)

RPP CONSISTENCY – COMMUNITY SYSTEMS

Community Systems → Cultural Heritage
Economy
Housing

- **Funding for education and training**
- **Source of new jobs / new industry for the region**
- **No impact to cultural resources**
- **Savings to ratepayers**
- **Community revenue through HCA and property taxes**

SUBSTATION PLANNING CONSISTENCY

- 6.3 acre parcel of land, undeveloped portion of former Cape Cod Times property off Independence Drive
- Adjacent to existing substation and utility ROWs
- Property within designed Industrial Activity Center
- Containment to protect groundwater exceeds industry standards

*"**Industrial Activity Centers** are lands containing industrial uses that are suitable for future industrial activity as well as emerging industries."*

REGIONAL PERFORMANCE STANDARDS

- 9 regional performance standards
- Project has either no impact or positive impact

LOCAL PLANNING, BENEFITS V. DETRIMENTS

- Consistency with LCPs, DCPCs, Municipal Bylaws
- Zoning addressed in HCA, EFSB process
- Benefits versus detriments
  - Benefits – significant and long lasting
    - ✓Environmental
    - ✓ Economic
    - ✓ Community
  - Detriments - temporary and minor impacts during construction



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Thank You