
DEEPWATERWIND
Clean energy is just over the horizon.

SOUTH FORK WIND FARM

Goals for Today

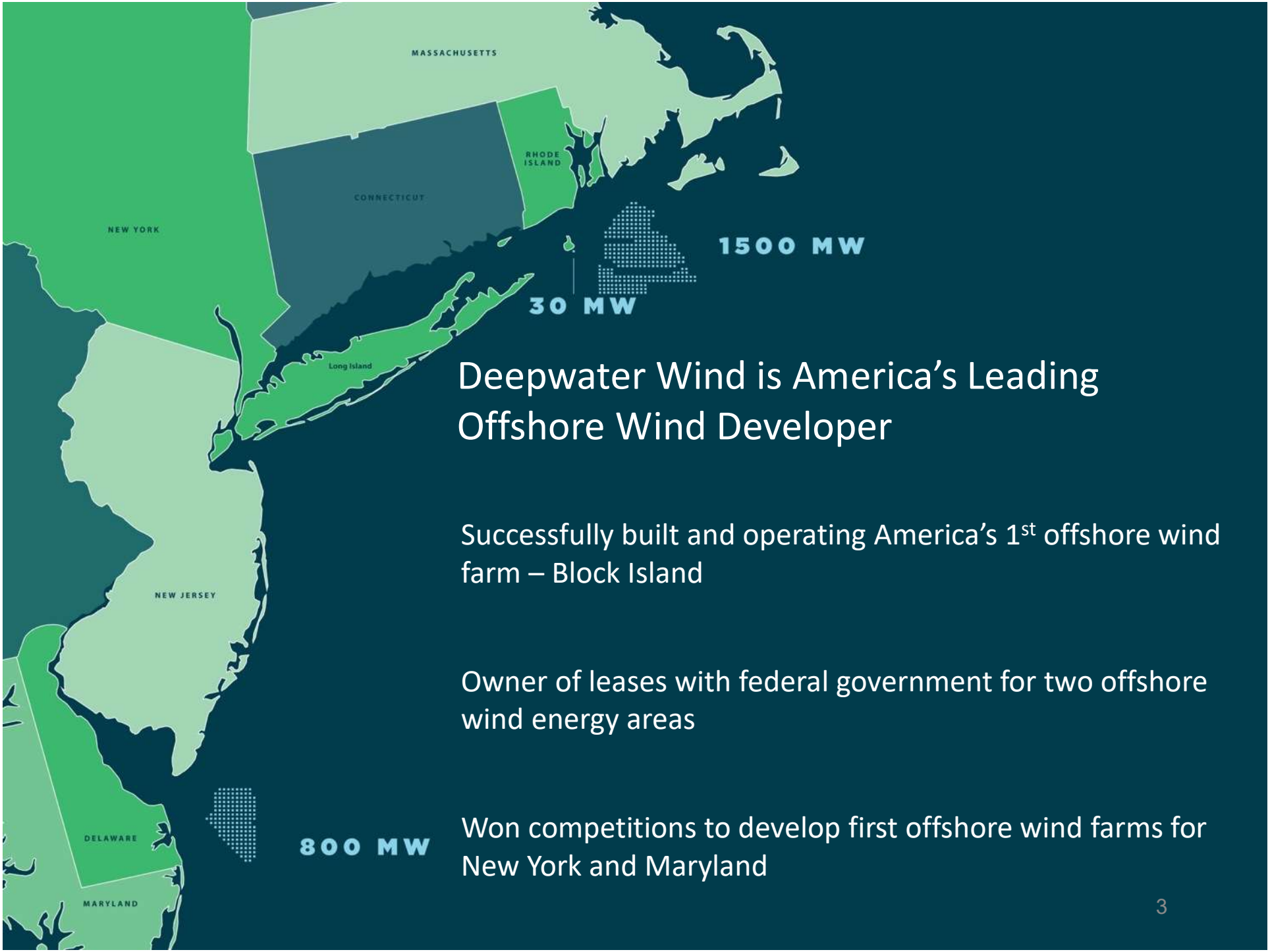
Introduce Deepwater Wind

Describe the South Fork Wind Farm

Explain our development timeline

Discuss how power is delivered

Answer your questions

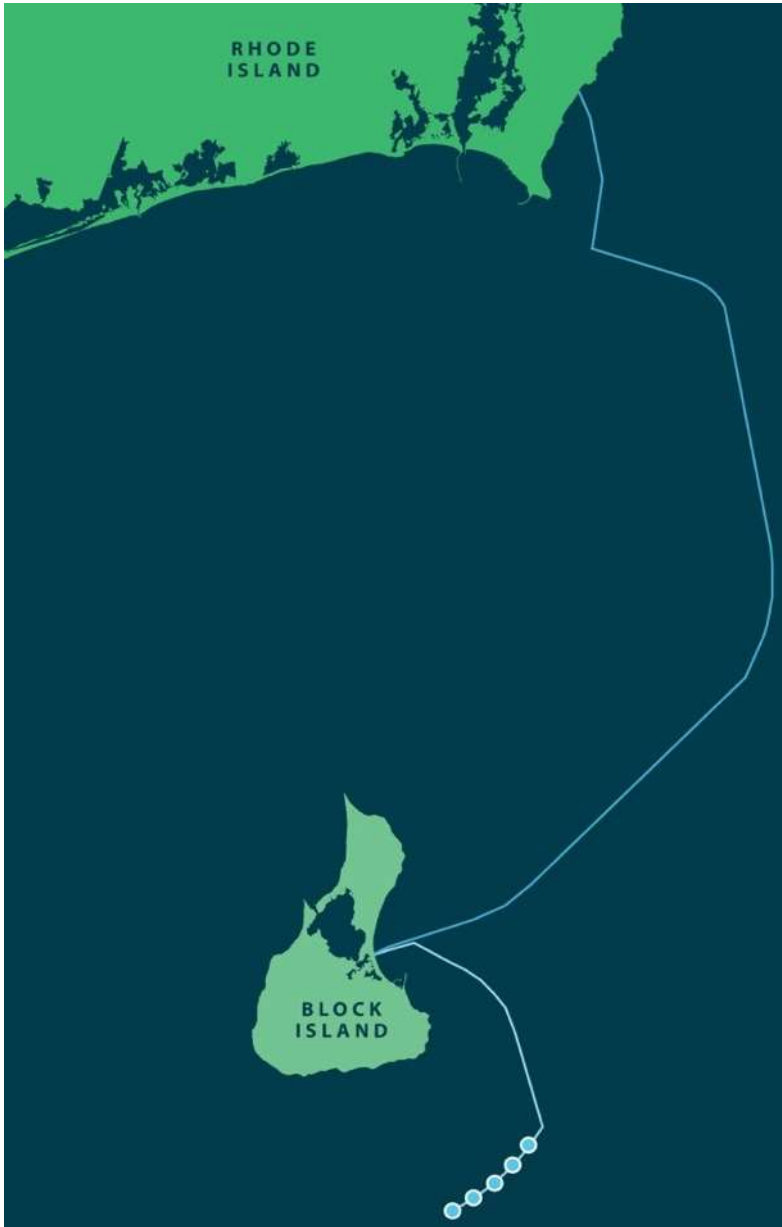


Deepwater Wind is America's Leading Offshore Wind Developer

Successfully built and operating America's 1st offshore wind farm – Block Island

Owner of leases with federal government for two offshore wind energy areas

Won competitions to develop first offshore wind farms for New York and Maryland



America's 1st Offshore Wind Farm is Operating

Five Wind Turbines

Enough Power for 17,000 Homes

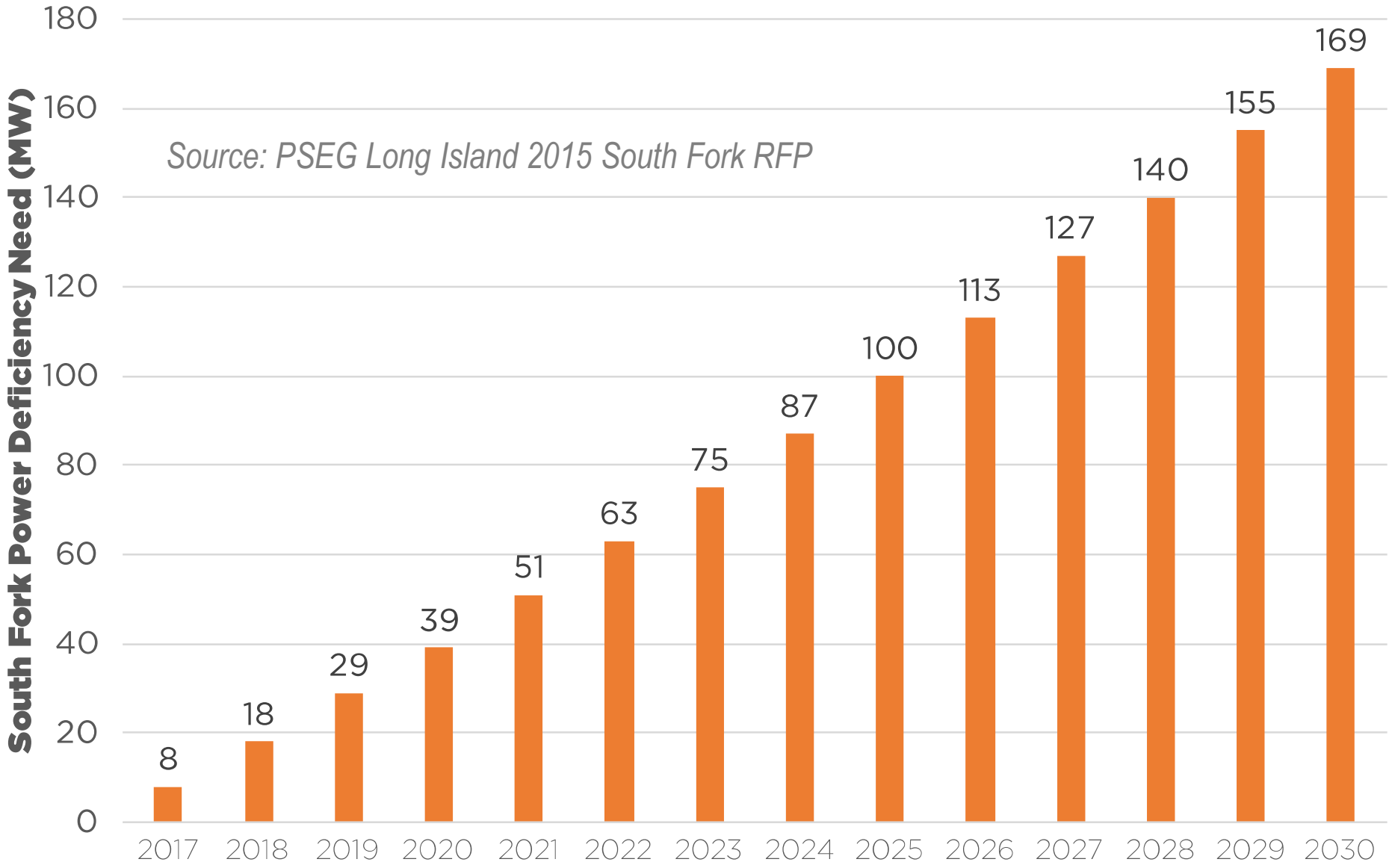
First ever electric connection between Block Island and the Rhode Island mainland

BLOCK ISLAND WIND FARM

America's First Offshore Wind Farm

The South Fork needs new power sources

In 2015, PSEG ran a technology-neutral competitive solicitation seeking new energy sources for the South Fork



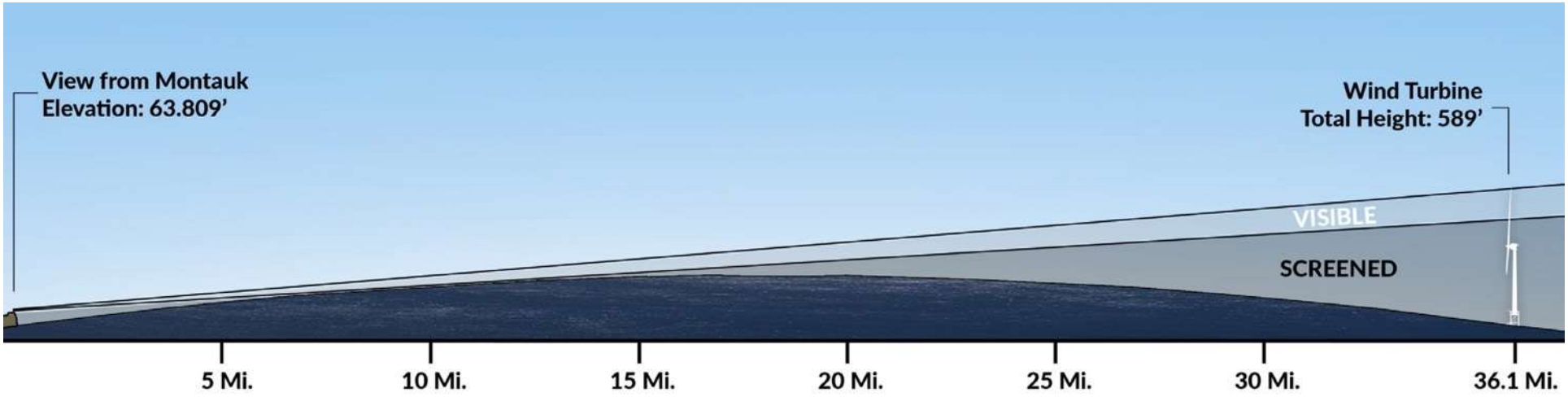
SOUTH FORK WIND FARM

Deepwater Wind was awarded a 20 year contract to supply power to LIPA in East Hampton

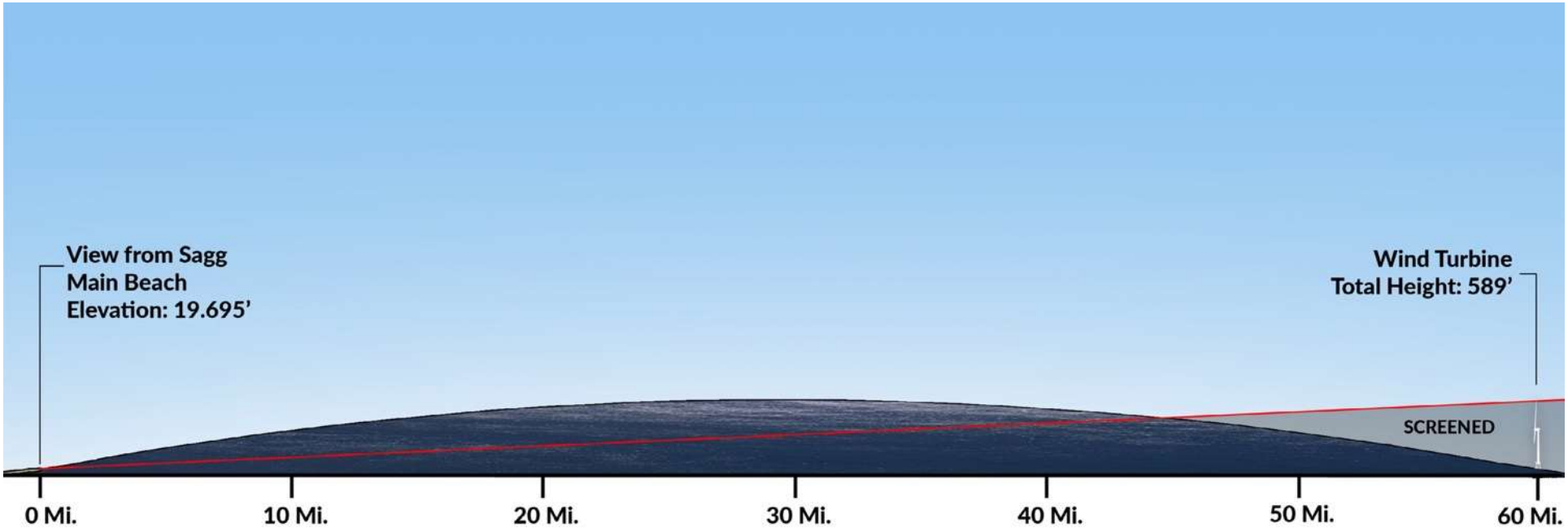
90 MW wind farm located 30 miles east of Montauk

Will power 50,000 typical homes

Allows LIPA to defer construction of fossil-fired generation in East Hampton


View from Montauk
Elevation: 63.809’
Wind Turbine
Total Height: 589’
VISIBLE
SCREENED
5 Mi.
10 Mi.
15 Mi.
20 Mi.
25 Mi.
30 Mi.
36.1 Mi.

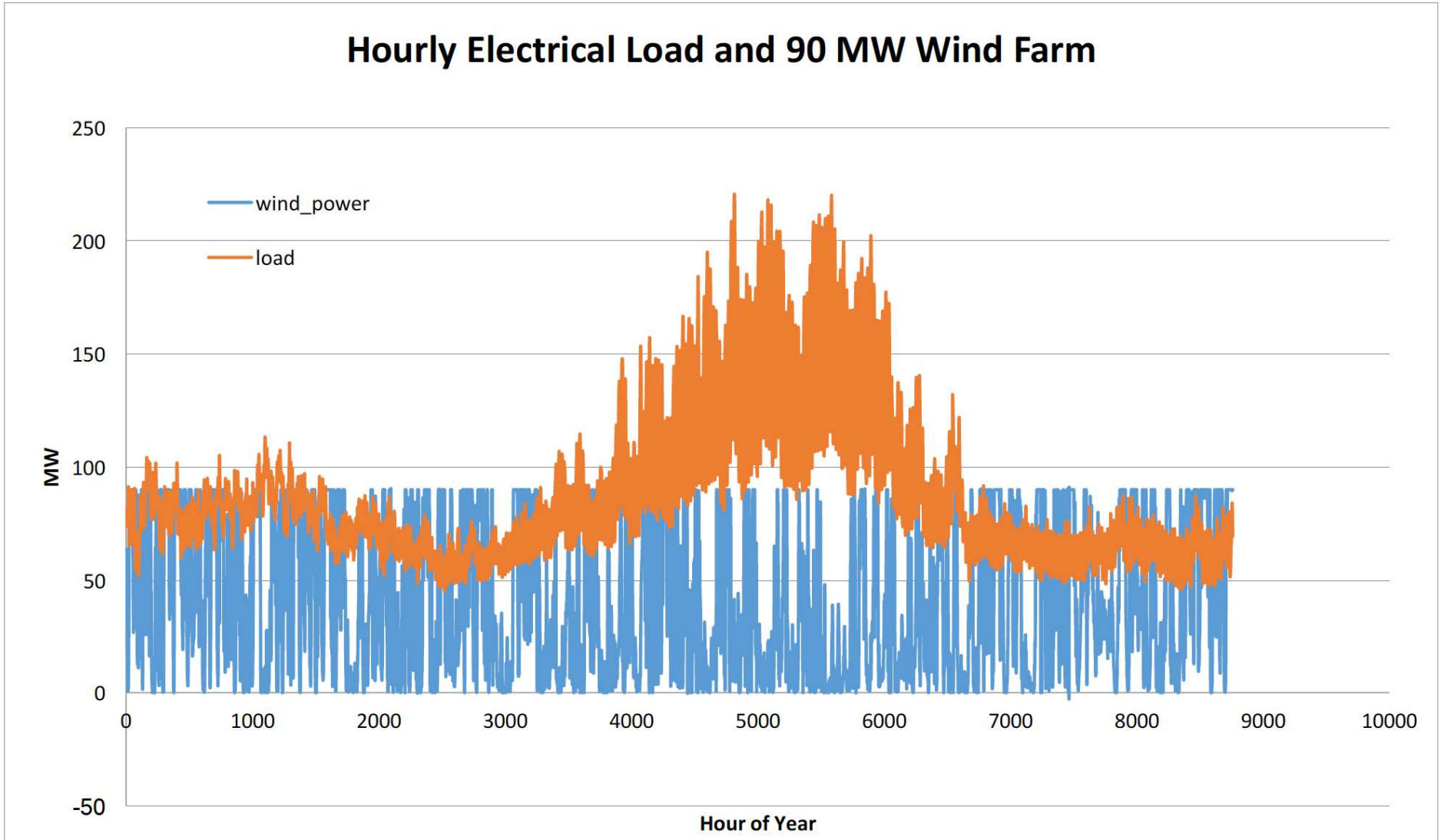

Montauk
Point


View from Sagg
Main Beach
Elevation: 19.695'
Wind Turbine
Total Height: 589'
SCREENED
0 Mi.
10 Mi.
20 Mi.
30 Mi.
40 Mi.
50 Mi.
60 Mi.


Sagg Main
Beach

SOUTH FORK WIND FARM

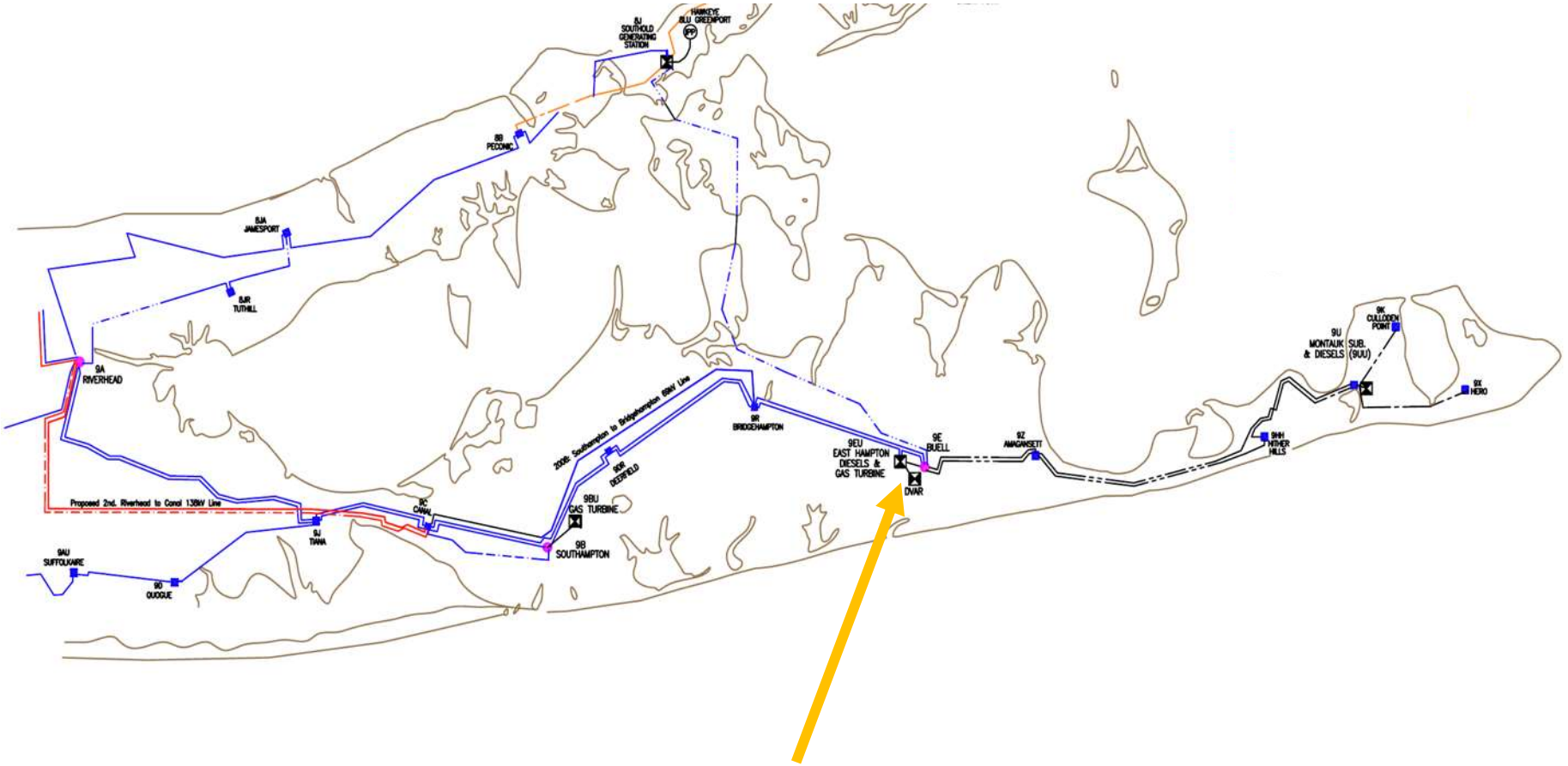
The Wind Farm will be a major source of local energy for the South Fork



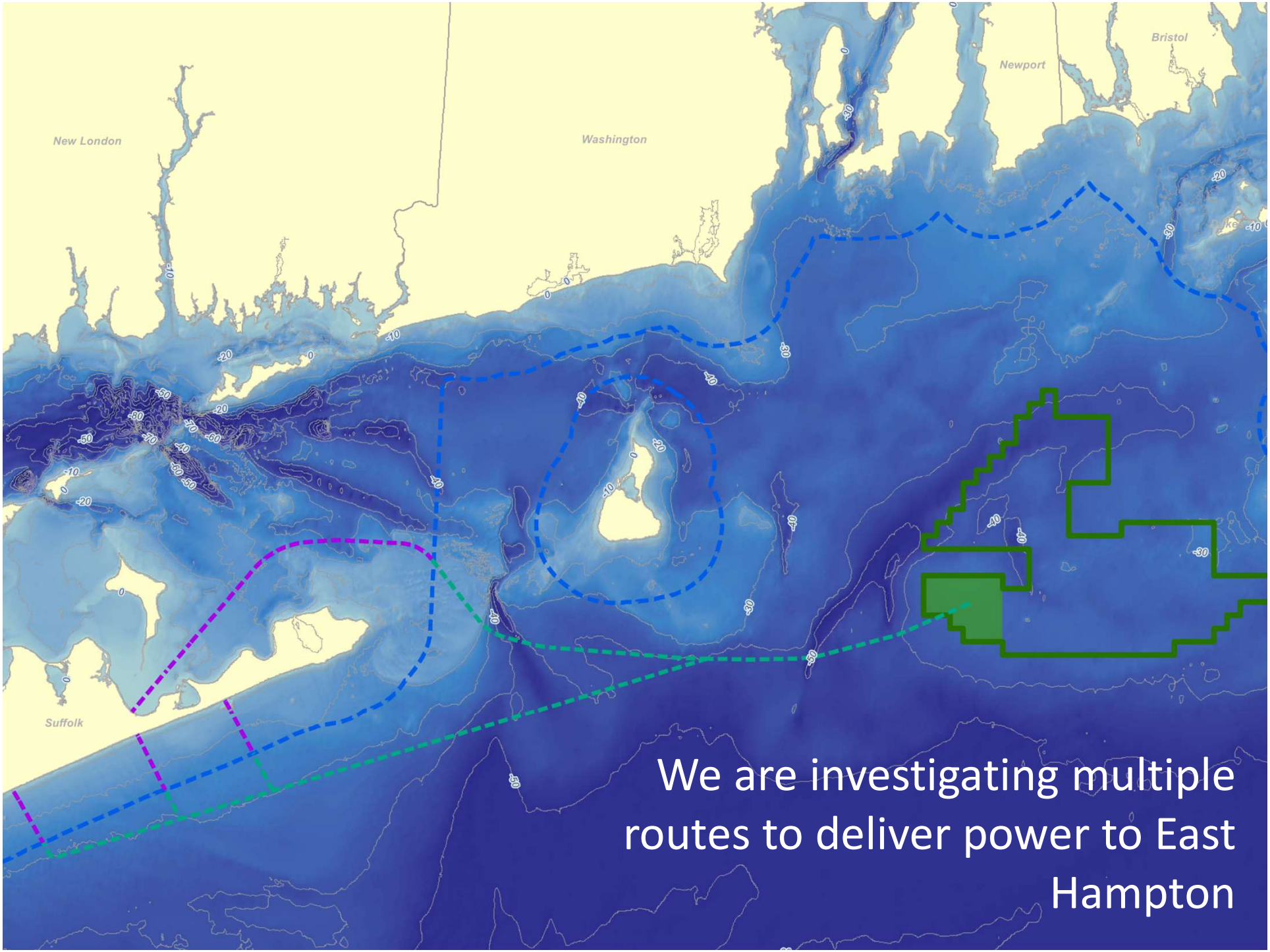
Source: Independent study by Dr. James Manwell of the University of Massachusetts conducted on behalf of Newsday

SOUTH FORK WIND FARM

We must deliver power to LIPA's East Hampton substation



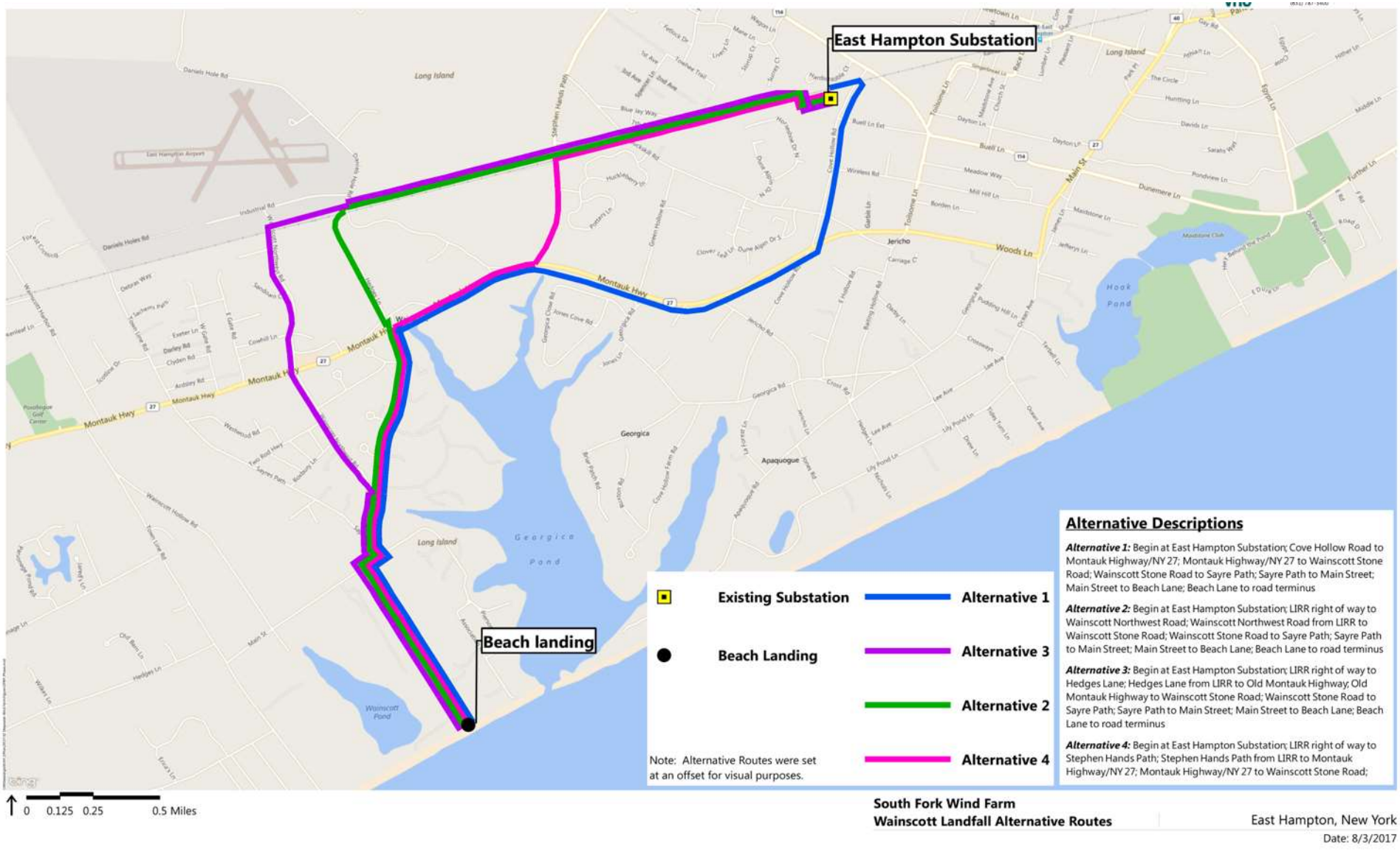
LIPA's East Hampton substation is located on Cove Hollow Road, just South of the LIRR Tracks


New London
Washington
Newport
Bristol
Suffolk
We are investigating multiple routes to deliver power to East Hampton

SOUTH FORK WIND FARM

Wainscott is an excellent potential landing

Technical conditions and proximity to substation allow for easy installation with minimal disturbance



SOUTH FORK WIND FARM

Permitting will involve many Municipal, State, and Federal Agencies

BOEM
Bureau of Ocean Energy Management

US Army Corps of Engineers®

SOUTH FORK WIND FARM

Project Development Timeline

SUMMER 2017	STAKEHOLDER MEETINGS (IN PROCESS)
SPRING 2018	APPLY FOR PERMITS
SUMMER 2020	PERMIT APPROVALS
SUMMER 2021	FOUNDATION INSTALLATION OFFSHORE
WINTER 2021 - 2022	CABLE LANDFALL CONSTRUCTION ONSHORE
SPRING 2022	CABLE INSTALLATION OFFSHORE AND PULL-IN
SUMMER 2022	WIND TURBINE INSTALLATION OFFSHORE
DECEMBER 2022	COMMERCIAL OPERATIONS

SOUTH FORK WIND FARM

Delivering Offshore Wind to East Hampton Cable Shore Landing

1. Overview of cable shore landing process
2. Review current design considerations
   a. Minimize community disturbance
   b. Account for site specific conditions
3. Discuss opportunities to improve proposed design and answer any questions


Block Island Wind Farm

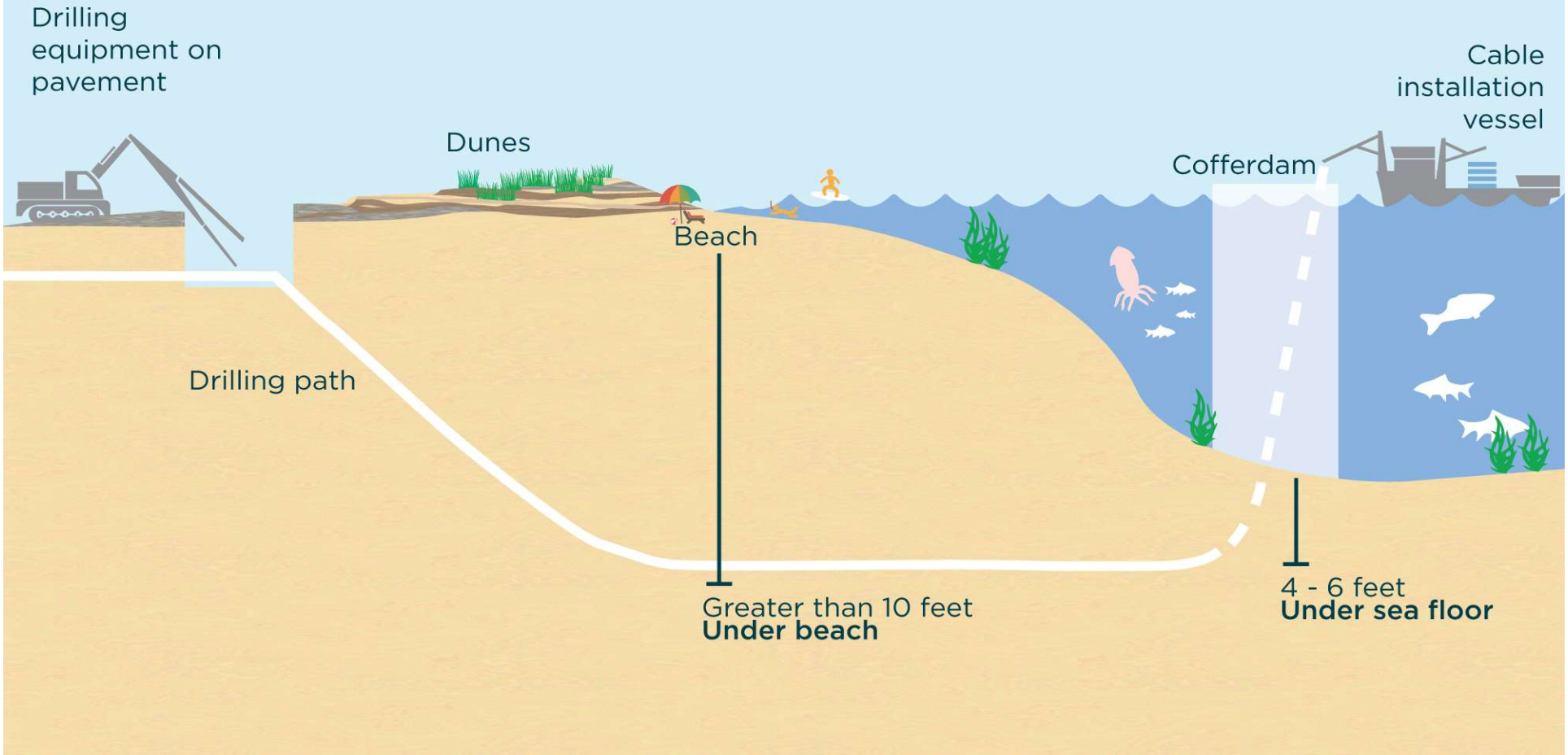
Scarborough Beach

Overview of Proposed Cable Shore Landing Process

PHASE 1: CONDUIT
Install a conduit – a plastic pipe - from beach parking lot, deep under beach, to distance offshore

PHASE 2: RESTORE
Restore beach parking lot to condition better than we found it.

PHASE 3: CABLE
Pull submarine cable from offshore through previously installed conduit.




Georgica Cove
Beach Lane
Wainscott Pond
BEACH LANE
Location:
Parking lot at the end of Beach Lane

SOUTH FORK WIND FARM

Design Considerations

Beach is enjoyed 365 days per year and is heavily used in summer

1. Must maintain access to beach
2. Focus work that impacts parking lot from November to May
3. No intrusive activities on beach
4. Noise from construction to comply with local noise ordinances
5. Cable depth below beach must account for seasonal and storm induced erosion
6. Leave area in better condition than we found it

PHASE 1: CONDUIT

Install a conduit – a plastic pipe - from beach parking lot, deep under beach, to distance offshore

|Conduit

Work Area

200’ x 40’

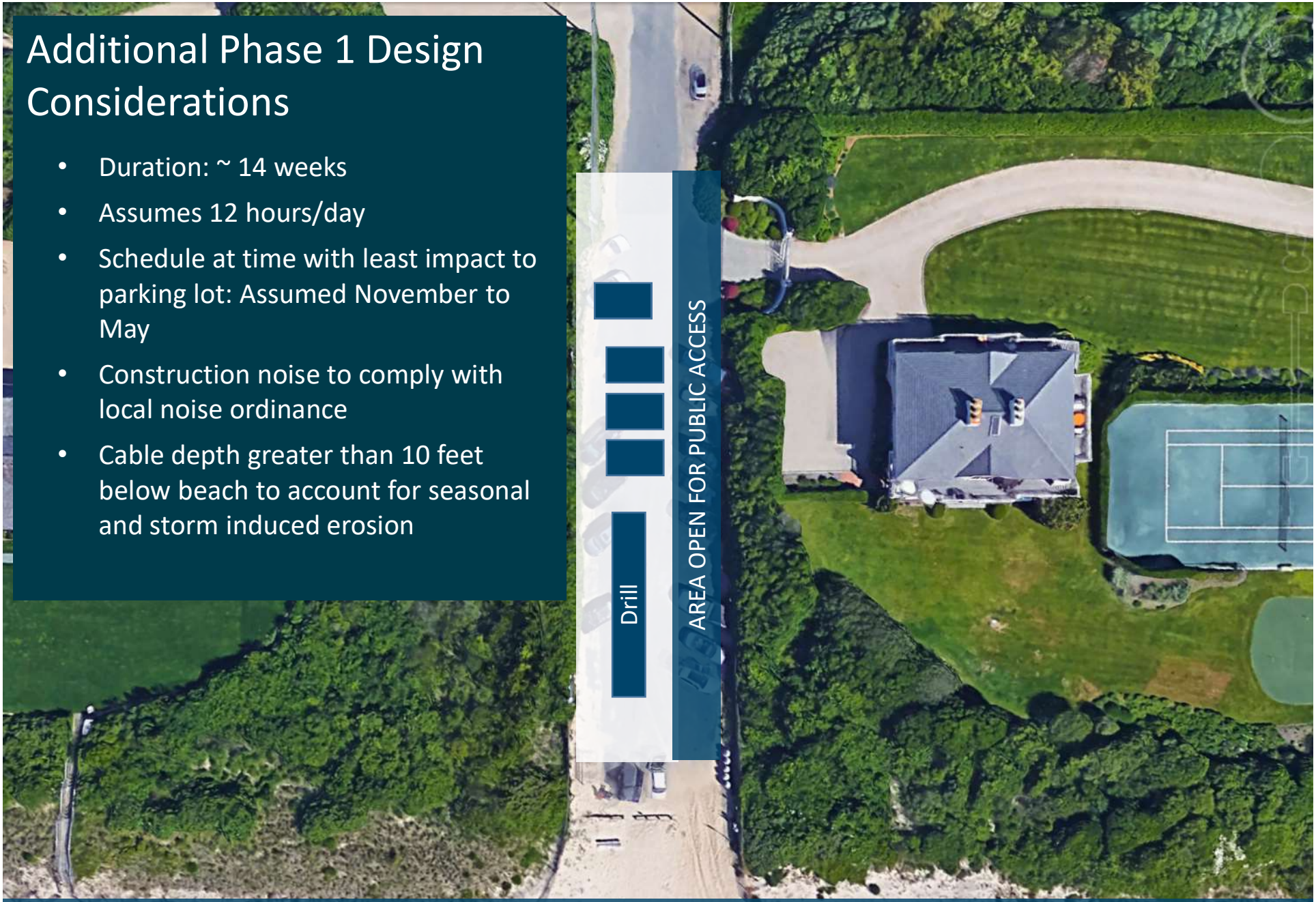
Drill

RESIDENCE

RESIDENCE

Additional Phase 1 Design Considerations

- Duration: ~ 14 weeks
- Assumes 12 hours/day
- Schedule at time with least impact to parking lot: Assumed November to May
- Construction noise to comply with local noise ordinance
- Cable depth greater than 10 feet below beach to account for seasonal and storm induced erosion



NO INTRUSIVE ACTIVITIES ON BEACH

PHASE 2: RESTORE
Restore parking lot to condition better than we found it

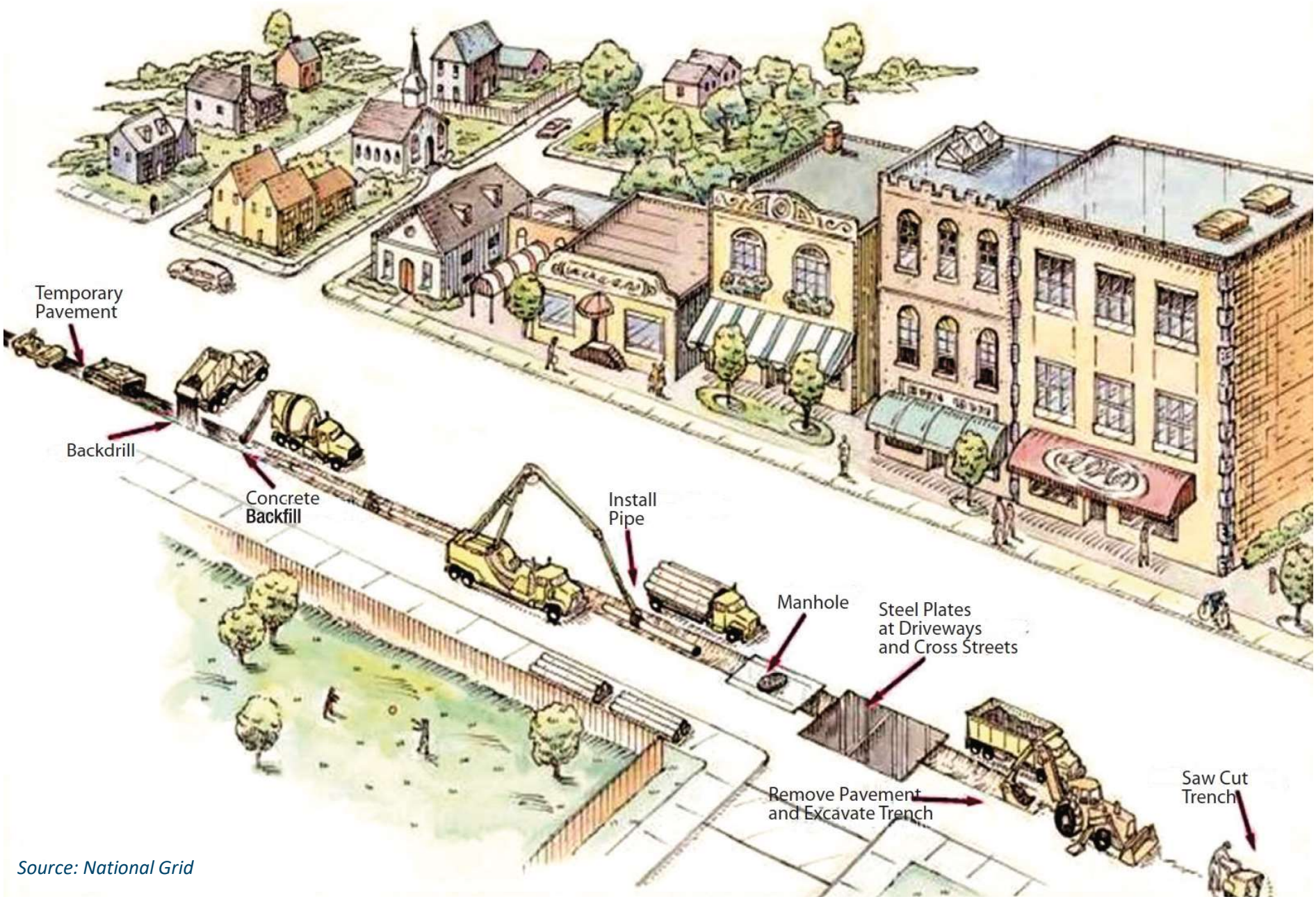

PHASE 3: CABLE
Pull submarine cable from offshore through previously installed conduit.
Work Area
200’ x 30’
RESIDENCE
RESIDENCE

Phase 3 Design Considerations

- Maintain public access at all times
- No intrusive activities at beach
- Parking Lot:
  - Work area required for approximately 7 days
  - Space for a truck/winch and over-length of cable
  - Minimal noise anticipated
  - Minimize use of parking lot
- Schedule tied to offshore installation: Phase 2 conducted between March and Memorial Day (weather dependent)


Manhole covers are the only visible sign of shore landing at Block Island Town Beach.

Cable will be buried along route.



Source: National Grid

Questions?

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