



IslandReady

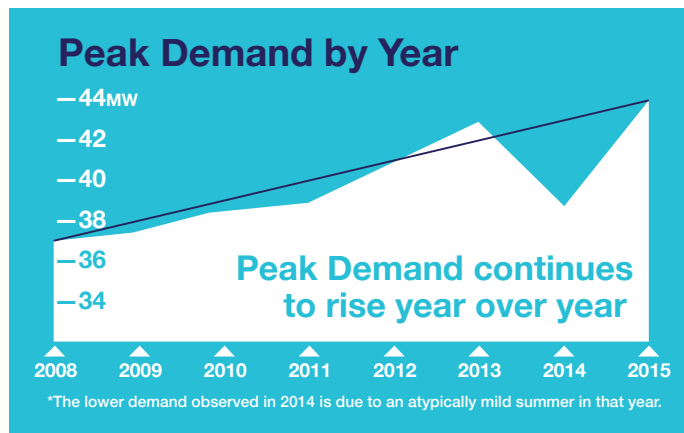
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THE NANTUCKET ENERGY INITIATIVE

Working to meet Nantucket's electricity needs.

Nantucket's electricity supply is currently delivered via two submarine cables that connect the Candle Street Substation to the mainland power grid on Cape Cod via Nantucket Sound. The Island also has six megawatts (MW) of diesel generation to provide some temporary power should an outage affect one of the cables. For many years, this system offered adequate electrical capacity for the island, even during peak summer months.

However, the demand for electricity on Nantucket, particularly during the summer season, has grown significantly in just the last 10 years. It has increased from 37MW in 2008 to nearly 44MW in 2015. The system that has served the Island for many years is no longer adequate, and National Grid forecasts that a third submarine cable will be necessary in the next 10-15 years. Further, the aging back-up generators are nearing the end of their useful life and need to be replaced and upgraded to keep pace with on-island growth.



To meet Nantucket's energy needs over the long term, and to defer the need for a third submarine cable for as long as is practical, National Grid has developed a holistic, integrated plan to upgrade the Island's electrical infrastructure. The goal of **IslandReady: The Nantucket Energy Initiative** is to strengthen the reliability of the Island's electricity system and to upgrade the power supply system so it continues to serve the needs of our customers as demand continues to increase.

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Candle Street Substation Upgrades:



- Three existing switchgear boxes housed at the substation (used to control and protect substation equipment) , along with a new (fourth) switchgear box, will be relocated within the property and placed on a newly constructed platform to provide increased reliability and safety
- Transformer controls also will be relocated from the sides of the existing transformers to inside the control house (brick building) on the property to provide protection from potential flood waters

Distribution System Upgrades:

- The existing underground cable located downtown will be upgraded - including the installation of new underground conduit and larger manholes - to improve reliability and decrease outages, and to meet increased capacity needs
- A new underground cable will be installed from the Candle Street Substation out to Milestone Road to meet growing demand in that area (exact route is to be determined)

Back-up Generation:



- A new 10MW diesel-powered generator will replace two aging 3MW generators at National Grid's Bunker Road facility (near the east side of the airport)
- A new 48MWh Battery Energy Storage System will also be installed at Bunker Road to reduce loading on the cables

Connect with us

A major undertaking such as this demands active and open communication between National Grid and Nantucket's residents, businesses, community groups, and town officials. To accomplish that, we're launching a number of communication efforts and a variety of ways for the public to receive information and interact with us. Throughout the project, National Grid will offer the public a series of opportunities to connect with our project team to learn more and ask questions about the work taking place in your community. In the meantime, please feel free to reach out to our team with questions via any one of the following channels:

☎ 508-257-5135 or 888-713-8448

✉ info@islandreadynantucket.com

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