

IslandReady

nationalgrid

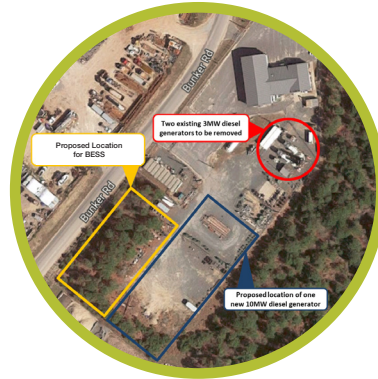
A NANTUCKET ELECTRICITY INITIATIVE

BATTERY ENERGY STORAGE SYSTEM

WHAT: Project Overview



To meet Nantucket's energy needs over the long term, and to help defer the need for a third submarine cable, National Grid has developed a holistic, integrated plan – called IslandReady – to upgrade Island's electricity infrastructure. A significant piece of this plan is a new Battery Energy Storage System (BESS), that when combined with a new, upgraded diesel generator, will supply the Island should one of the two submarine cables currently serving Nantucket experience an outage.



The BESS, built by Tesla, will be installed within the footprint of National Grid's existing Bunker Road site, located east of the airport. The proposed design is expected to have a capacity of 48-megawatt hours (MWh), which means it can provide the Island with 6 megawatts of capacity for up to eight hours.

WHY: Project Benefits & Solutions

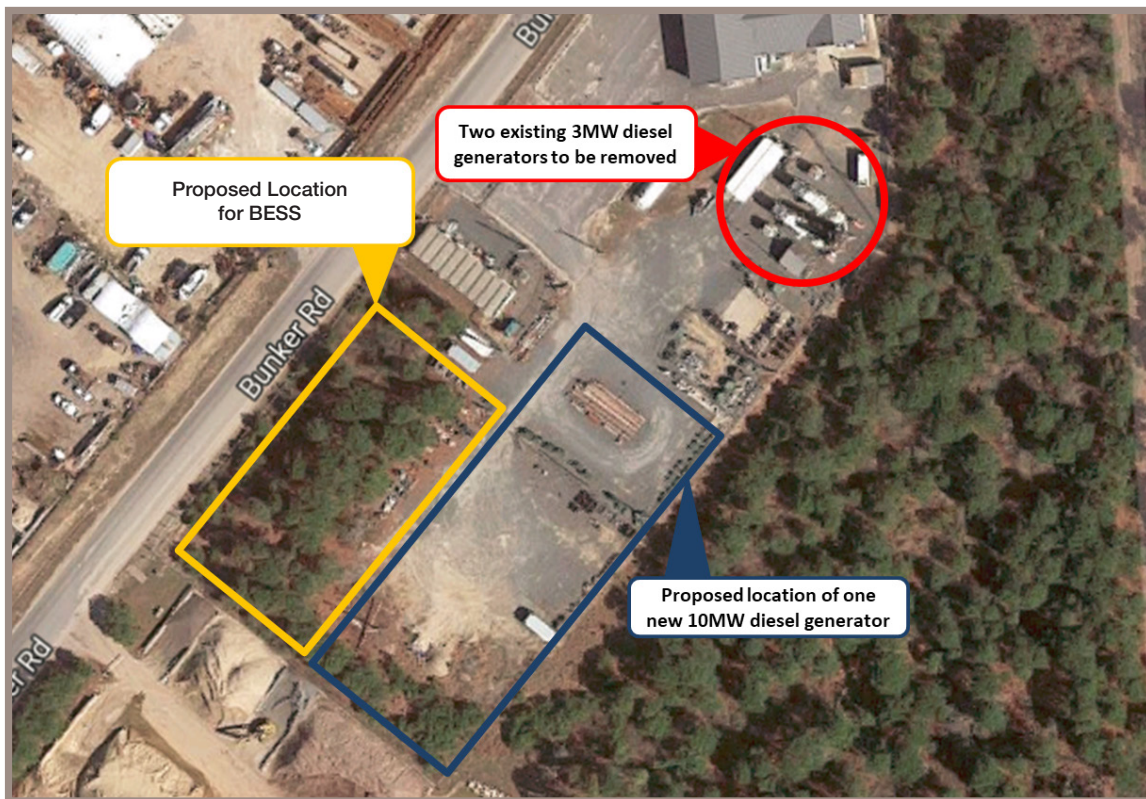
Enhanced Reliability

The demand for electricity on Nantucket (particularly during the summer season) has grown significantly in just the last 10 years, and it is projected to continue growing for the foreseeable future. Because of this, the back-up system that would help supply the island if one of the two existing submarine supply cables were to experience an outage needs to be upgraded. In addition, National Grid expects that a third submarine cable will be necessary in about a dozen years. The BESS could delay the need for a third cable for up to 15-20 years by supplying electricity to supplement the cables.

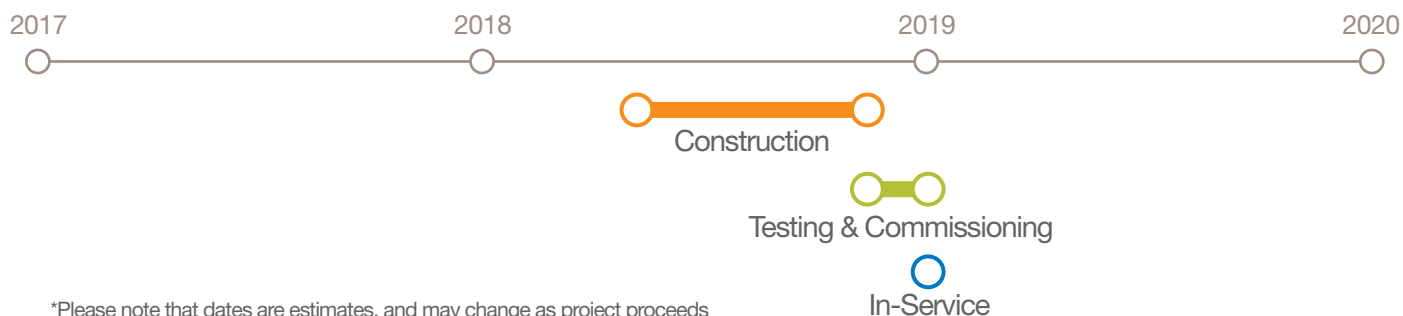
Innovative Solutions

A number of potential solutions were explored to address the Island's long-term electricity capacity needs and more immediate contingency needs. The BESS was selected because it provides an effective, efficient, environmentally-friendly solution. National Grid has developed, and is planning, many other battery systems to meet customer needs and advance the use of clean energy.

WHERE: Project Map



WHEN: Current Anticipated Project Schedule*



*Please note that dates are estimates, and may change as project proceeds

WHO: Contact the IslandReady Team

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