



Nantucket Residential Energy Storage Proposal

Summary

Nantucket Island is especially well suited for sustainable energy solutions that can benefit residents and the electric grid and offers an ideal location for demonstrating innovative projects. Through the Massachusetts Clean Energy Center (MassCEC)'s recently announced \$10 Million [Advancing Commonwealth Energy Storage \(ACES\) program](#), Tesla has identified a unique opportunity to provide [Powerwall](#) batteries to the residents of Nantucket with the goal of reducing summer peak load and deferring the need for a costly third undersea cable. Tesla also seeks to supplement the Powerwall batteries with availability of the [Solar Roof](#) for additional local benefits.

The ACES grant application is due on June 9th, 2017, and Tesla is seeking support from the Town of Nantucket Board of Selectmen to strengthen their "Nantucket Residential Energy Storage" ACES grant proposal, which will benefit residents and the community of Nantucket.

Background

- Nantucket residents currently pay a premium for electricity as demand continues to grow
- Residents desire reliability and back-up power, and care about their environment and sustainability
- There is a delicate balance between preserving the rich history and character of Nantucket districts, and the needs and interests of its residents with respect to clean and affordable energy

Advancing Commonwealth Energy Storage (ACES)

- The MassCEC's Advancing Commonwealth Energy Storage (ACES) program offers state government grant funding to advance storage deployment across Massachusetts
- ACES projects will showcase innovative use cases for storage and advance Massachusetts' leadership in clean energy
- Nantucket is an ideal location for showcasing new models for storage because the island provides unique system needs
- [Powerwall](#), Tesla's home batteries, can provide multiple customer and grid benefits while increasing renewable energy adoption, customer choice, and engagement
- Applications for Energy Storage:
 - Customer backup power and reliability
 - Stores electricity and can power homes when needed during grid outages
 - Seamless integration with [Solar Roof](#) generation
 - Peak demand reduction for distribution needs
 - Dispatch the aggregation of batteries for grid services
 - Other avoided costs/deferral benefits
- To support this vision, the community can provide a letter of support for the ACES application