

IslandReady: A Nantucket Electricity Initiative

Planning for Nantucket's Future Supply
May 20, 2026

nationalgrid



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Current & Recently Completed Work

IslandReady: A Nantucket Electricity Initiative has enhanced the reliability and resiliency of the Island's electricity system and upgraded the power supply system, so it serves the needs of our customers as demand continues to increase. Work on the first set of projects started in 2015, with the last one being completed in 2025.

To continue to meet Nantucket's future energy needs National Grid is developing a holistic, integrated plan to upgrade the Island's electrical infrastructure.



Nantucket – History & Background

Electricity generated locally using steam and diesel generators.

1800 - 1996

- Candle St - Sub Energized 1997
- Bunker Rd - Sub Energized 1998

1997 & 1998

Upgraded backup systems at Bunker Road substation

- CTG: 13 MW
- BESS: 6 MW (20-yr contract)

2019



1996

First submarine cable installed (36 MW, 46kV)

- Route: Harwich to Candle St.)
- Est. lifespan: ~40 years (~2036)

2006

Second submarine cable installed (39 MW, 46kV)

- Route: Hyannis to Candle St.
- Est. lifespan: ~40 years (~2046)

2025

- Distribution upgrades improve switching and reliability for downtown core and Eastern parts of Nantucket

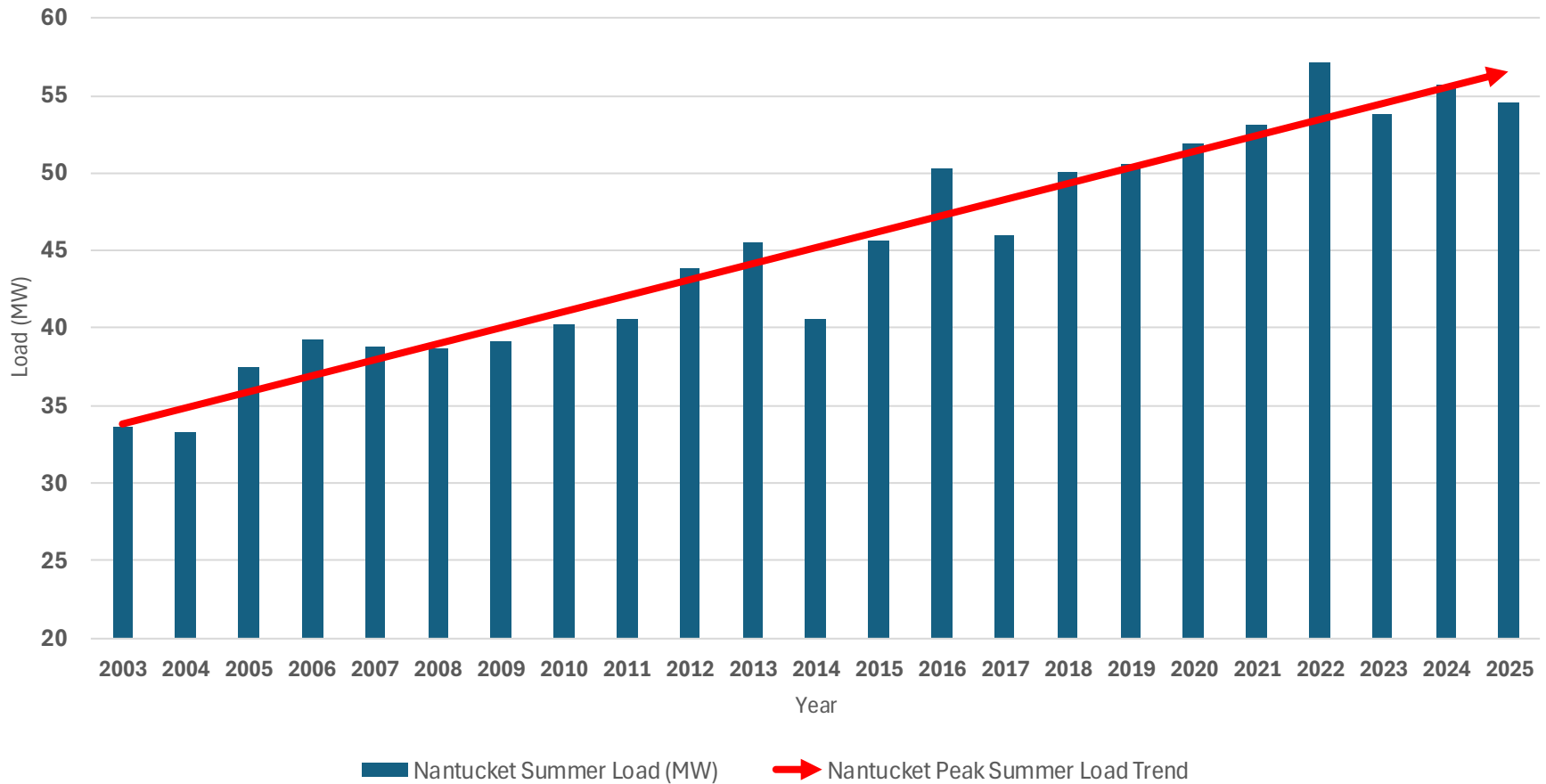
Planning for Future Demand

National Grid is currently studying the capabilities of our existing infrastructure (submarine cables, substations, distribution lines, generation, battery storage) and is developing a plan that balances reliability and affordability in the delivery of electric power to the year 2080

- This will help to understand how to better address current and future needs
- Identifies and analyzes potential options for future delivery; community input will be considered during the study
 - Potential options involve additional substation capacity outside of the Nantucket Downtown area, submarine cable replacement, non-wires alternative solutions, and distribution upgrades
 - To accomplish this, National Grid will explore new locations for on-island substations to potentially replace or supplement the existing substation capacity
 - National Grid is working to determine total cost of the options
- Timing: This system study is expected to be complete in the next 18 to 24 months; progress updates will be provided

Electrical Load Growth – Summer

Nantucket Peak Summer Load

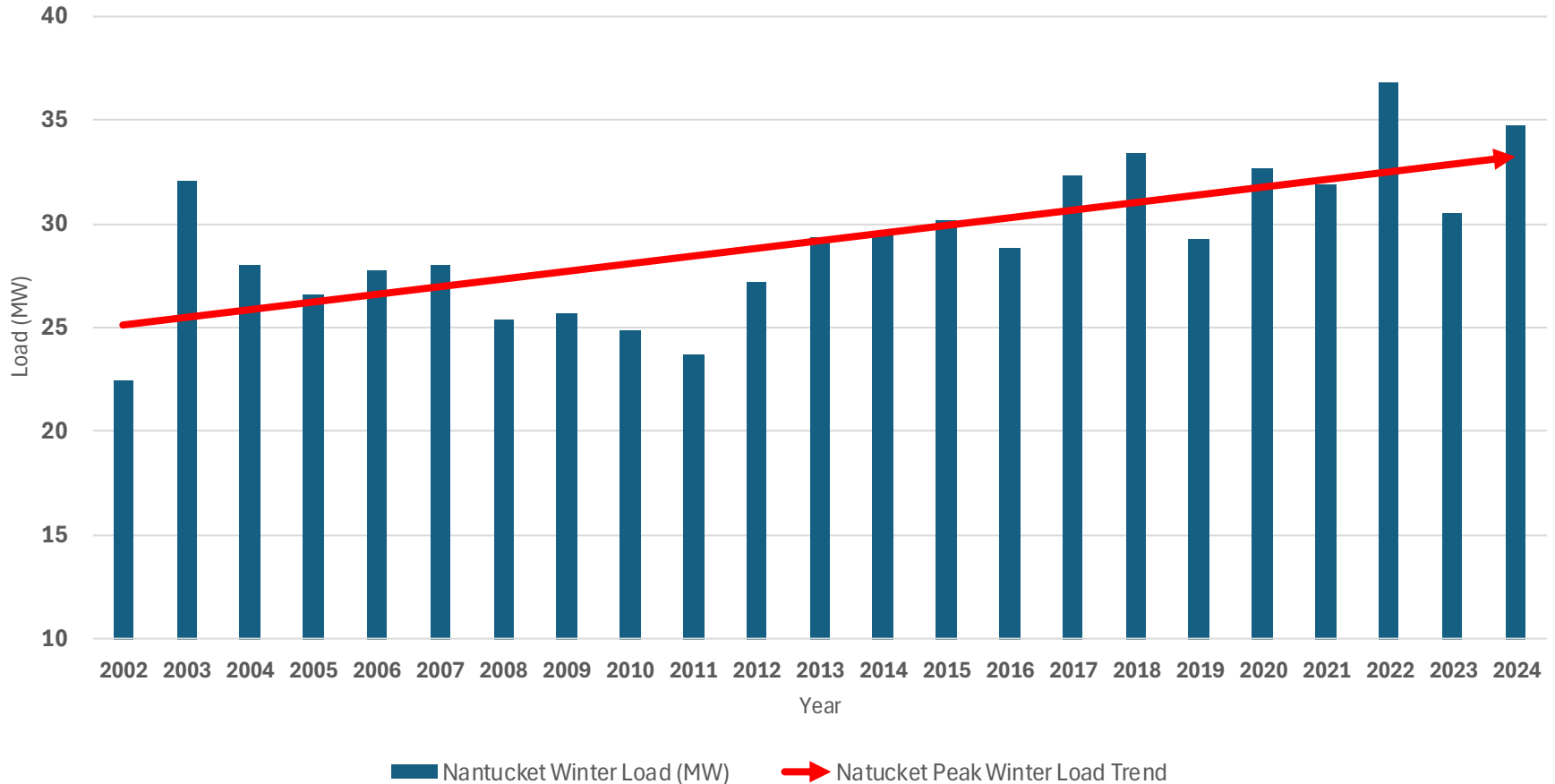


Since 2003*, peak Summer demand has grown significantly - from 33 MW to 54 MW in 2025 - an increase of about 62% in 22 years.

*Summer 2003 represents the first period of available data for tracking load growth.

Electrical Load Growth – Winter

Nantucket Peak Winter Load

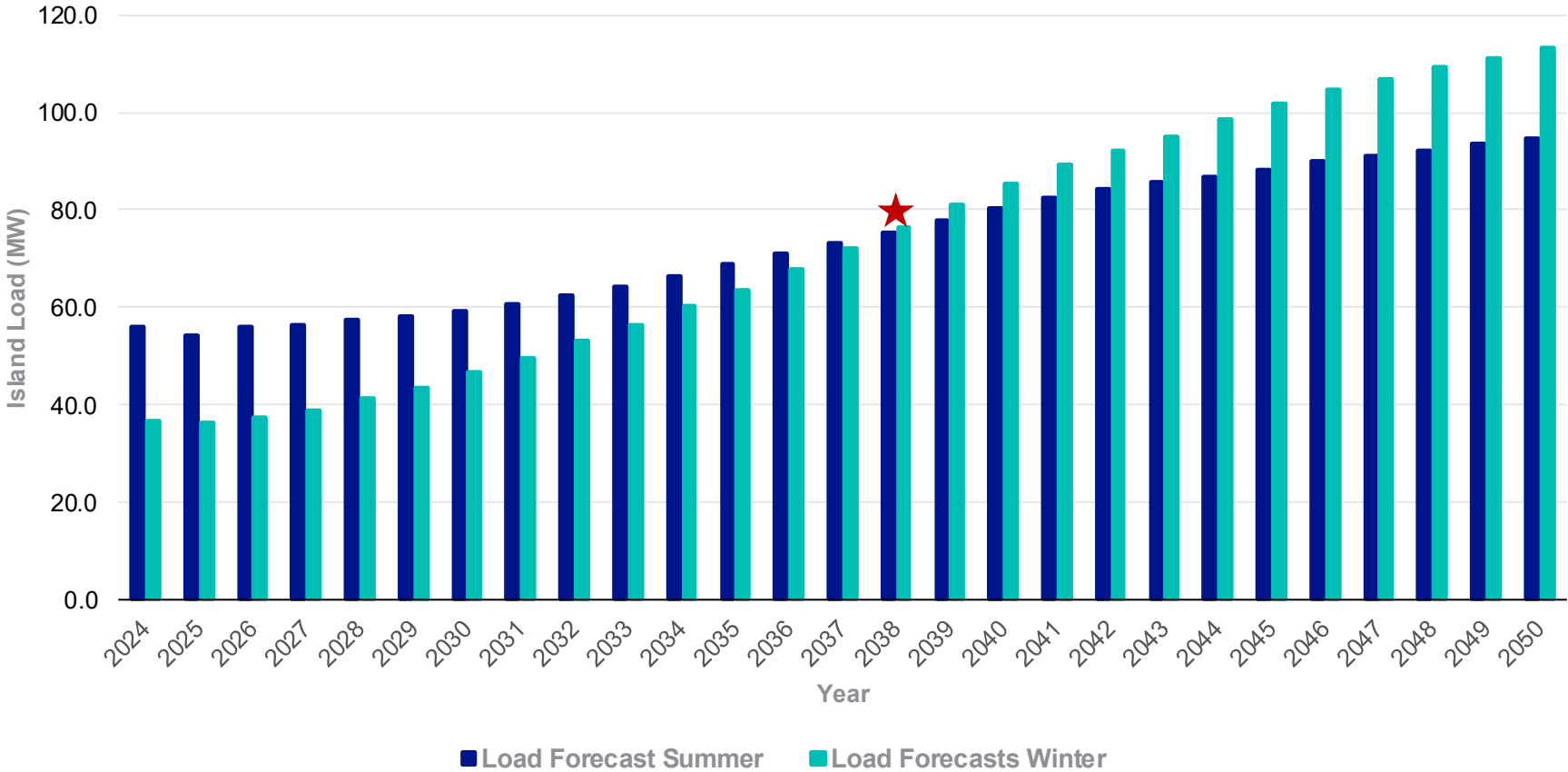


Since 2002*, peak Winter demand has grown significantly - from 22 MW to 35 MW in 2024 - an increase of about 55% in 22 years.

*Winter 2002 represents the first period of available data for tracking load growth.

Nantucket 2050 Forecasts

Nantucket Peak Load: Summer and Winter 2050 Forecast



Nantucket's Projected 2050 Summer Peak → 95 MW

Nantucket's Projected 2050 Winter Peak → 113 MW

★ Projected to switch from Summer to Winter peaking Area

What can YOU expect?

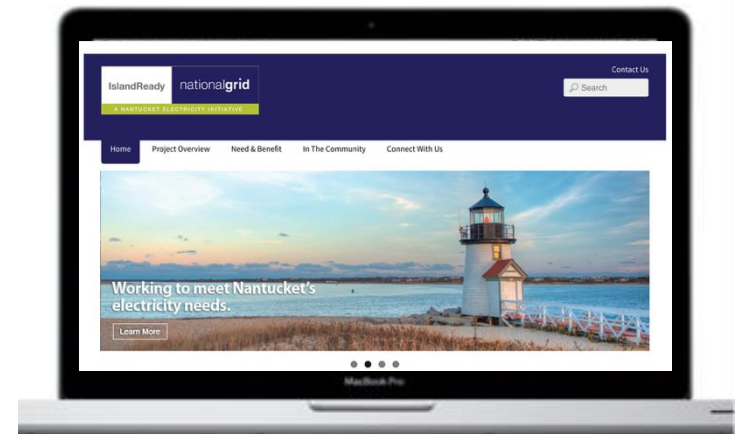
Our team will provide updates as the Study progresses

Opportunities to learn more about our solutions and the ability to provide feedback through Public Information Sessions

Multiple channels to reach out to our team:

- **Email**
- **Hotline**
- **Website**
- **In-person**

Our goal is to provide safe, reliable power to our customers and by taking this holistic study approach we look forward to finding the 'right size' solution for Nantucket.



Questions?

Contact us:

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