



Canal Generating Station, Sandwich, Massachusetts

Canal Modernization Project

Fast Facts

- ✦ **Project:** New peaking generation and community solar
- ✦ **Canal 3:** 333 MW of clean natural gas generation
- ✦ **The Edmund Freeman Solar Farm:** 1.5 MW supports Massachusetts's goal of 1,600 MW of solar power by 2020

Location



Sandwich, Massachusetts

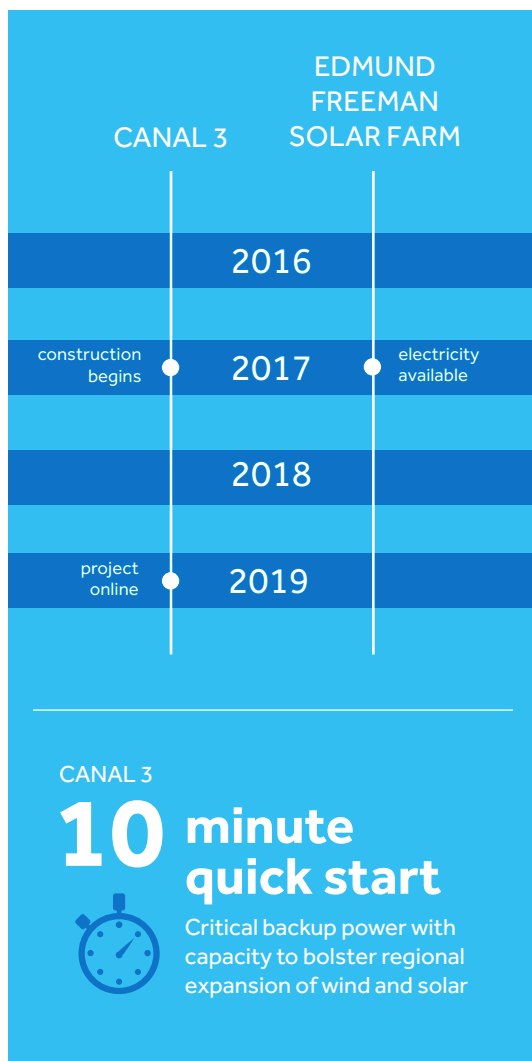
Enhancing reliability, efficiency and access to renewable energy

A comprehensive energy solution for southeastern Massachusetts, the Canal modernization project will combine beneficial aspects of both traditional and renewable power generation.

This project will modernize the Canal Generating Station in Sandwich, Massachusetts. Here, a state-of-the-art simple cycle combustion turbine, Canal 3, will function alongside a ground-mounted solar farm, known as the Edmund Freeman Solar Farm.

Leveraging existing infrastructure and industrial space, these enhancements will improve regional electrical system reliability while helping Massachusetts reach its sustainability goals. NRG will finance the entire cost of building Canal New Development's generation and solar components.





Clean generation for peak demand

Canal 3 will primarily use clean natural gas to provide up to 333 MW of new generation, enough to power 264,000 average-sized homes. As a peaking plant, Canal 3 will operate primarily during peak demand periods or in the event of unexpected outages. Additionally, Canal 3's high-efficiency gas turbine will be capable of starting and reaching full capacity in 10 minutes.

Solar for all

The Edmund Freeman Solar Farm will provide about 1.5 MW of capacity - enough to power 360 average-sized homes - from ground-mounted solar photovoltaic panels, located on the footprint of the current Canal Generating Station.

Additional benefits

- New capacity in the region could reduce wholesale prices, potentially lowering ratepayer costs.
- Ultra Low Sulfur Diesel (ULSD) will serve as Canal 3 on-site backup fuel, allowing for operations even when gas supplies are constrained. This is especially important for the Cape, given disruptions in generation capacity during the past two winters caused by a lack of sufficient natural gas infrastructure in New England.
- Construction will provide up to 160 jobs and could more than double the existing tax revenue.
- Modernizing the existing Canal Generating Station maintains a critical infrastructure site on the Cape and associated financial benefits for the region.

Next steps

- Progress in the development of the Canal projects requires detailed engineering, permitting, development of construction plans, the engagement of contractors and purchase of capital equipment.
- The project will also require a number of federal, state and local permits, which include:
 - An Environmental Impact Report under the Massachusetts Environmental Policy Act (MEPA)
 - A "Decision of Regional Impact" from the Cape Cod Commission
 - Approval of the Massachusetts Energy Facilities Siting Board (EFSB)
 - Various permits, including an air permit, from the Massachusetts Department of Environmental Protection (DEP)
 - Local permits (Town of Sandwich)

nrg.com

FOR MORE INFORMATION

Media Inquiries

David Gaier
 Senior Director/Communications, NRG East Region
david.gaier@nrg.com
 609.524.4529

Project Director

Thomas Atkins
 Senior Director, Conventional Development, NRG
thomas.atkins@nrg.com
 617.595.7774

