



RESILIENT DANVERS

Our Pathway to a Sustainable Future



Credit: North Shore Community College



ENERGY

Using energy efficiently and encouraging resilient and high-performing buildings.

What's Included

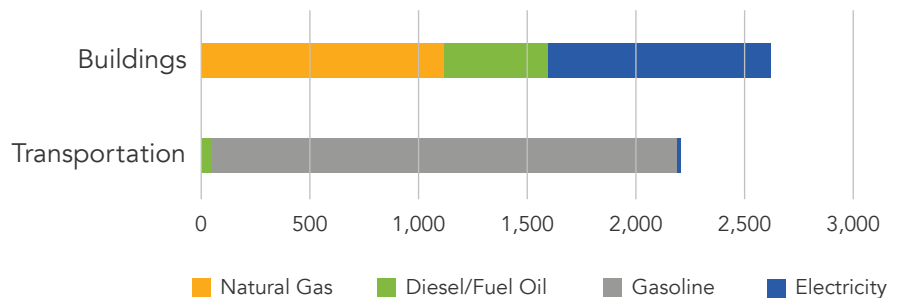
- Energy supply
- Local renewable generation
- Grid/infrastructure resilience

WHY IT MATTERS

We use many sources of energy to power different parts of our community. Wherever we use fossil fuels directly or indirectly, we are generating greenhouse gases, the primary type of pollution that causes climate change. Currently, 78% of the energy used in Danvers is from the direct use of fossil fuels in buildings and vehicles.

To eliminate greenhouse gas emissions, we need to electrify our homes, cars, and businesses **and** transition the energy sources that supply our electricity to renewables. By adding more renewable energy sources to the Town's power supply mix, Danvers can play a large role in transitioning the entire region to 100% renewable energy.

Total Energy Use in Danvers (1,000 MMBtu)¹



Danvers Electric Power Supply Mix²



52%

Nuclear*



37%

Natural Gas



5%

Hydro



5%

Wind



1%

Solar

* While nuclear power does not contribute to greenhouse gas emissions, it is not considered fully renewable due to the waste it generates.

¹ KLA Analysis of MassSave, Danvers Assessors Database, MassDOT VMT Viewer, Danvers Electric reports.

² Danvers Electric (2022).

BY THE NUMBERS



5,200 kW

of solar capacity exists in Danvers.³



ONLY 3%

of the 150,000 kW rooftop solar capacity in Danvers is currently being utilized.⁴



0.63

The average number of sustained outages per customer per year in Danvers, compared to 0.81 across New England.⁵ We have one of the most reliable electric systems in the region which can be made even stronger with local generation and energy storage.

MMBtu (noun)

Million British Thermal Units is a measure of energy that all fuel types (gallons of oil, therms of natural gas, kWhs of electricity) can be converted to for an apples-to-apples comparison.

kW vs. kWh

The capacity of an electricity generation asset is expressed in kW, which is the maximum amount of power it can produce at any point in time. The total amount of energy supplied is expressed in kWh, which measures how much of that capacity was used over time.

AROUND OUR COMMUNITY

The Town is moving forward to install a 3+ megawatt (MW) solar array at the closed Danvers Landfill. The proposed array could generate 3.4M to 3.8M kWh per year, which is enough electricity to power about 550 homes.

Danvers Electric Division is recognized by the American Public Power Association as both a Platinum Level Reliable Power Provider and Smart Energy Provider. Investments in local infrastructure showcase our capacity to lead the transition to 100% renewable energy.



³ Mass Clean Energy Center, Solar Production Tracking System.

⁴ Google Project Sunroof Data Explorer.

⁵ Danvers Electric Annual Service Availability.

The future demands that we take

BOLD ACTION
NOW. **EVERYONE IS NEEDED**

Climate change will affect us all. *Resilient Danvers* is a platform to share your concerns, priorities, and ideas for how Danvers should take appropriate action, such as building clean energy and transportation systems, supporting affordable and livable neighborhoods, and growing a diverse and sustainable economy.



Talk with friends and family



Engage with our online tools and surveys



Attend events to talk with us about the plan



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