ENERGY EFFICIENCY CASE STUDY

Main Street Barnstable



100%
cost coverage for heat pumps

11,915 kWh
estimated annual electric savings

THE NEED: Comprehensive energy efficiency upgrades for an aging historic residential home

THE SOLUTION: A new energy-efficient air source heat pump and structural improvements to the home to maximize efficiency.

Jessica and her family have faced a series of challenges since the COVID pandemic. Between a series of health challenges and a loss of income, keeping up with bills was difficult enough, let alone finding the extra funds to make upgrades to their historic home.

Fortunately, Jessica was able to connect with Cape Light Compact via Housing Assistance Corporation (the Community Action Program agency delivering Cape Light Compact's Income Eligible Energy Efficiency Program) The Income Eligible program is designed to make energy efficiency attainable for residents who would otherwise not be able to afford them.

The energy specialist was able to identify a number of energy saving measures. The family received a weatherization barrier around the home's foundation, roof and mold remediation, new windows, and a new air-source heat pump system for heating and cooling. These upgrades were incentivized at 100% through the Compacts program. In addition to increased comfort, the new system provided increased dehumidification and air filtering which, along with the mold remediation, improved the family's health.

The improvements to our home have changed our daily lives in ways that are difficult to put into words. A weather barrier beneath our historic home, built in the 1750s, has helped protect its foundation. A new heating and cooling system provides better humidity control and air filtration. And a new roof means that we can finally live without the constant fear of leaks and the damage they bring. These may be physical improvements to a house, but what you have given us goes far beyond that.

- Jessica, Barnstable Resident