

Winning Category

NEW CONSTRUCTION

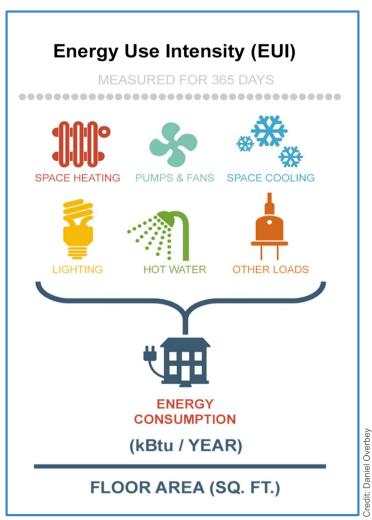
Design of the Year
Acton-Boxborough RSD
Boardwalk Campus

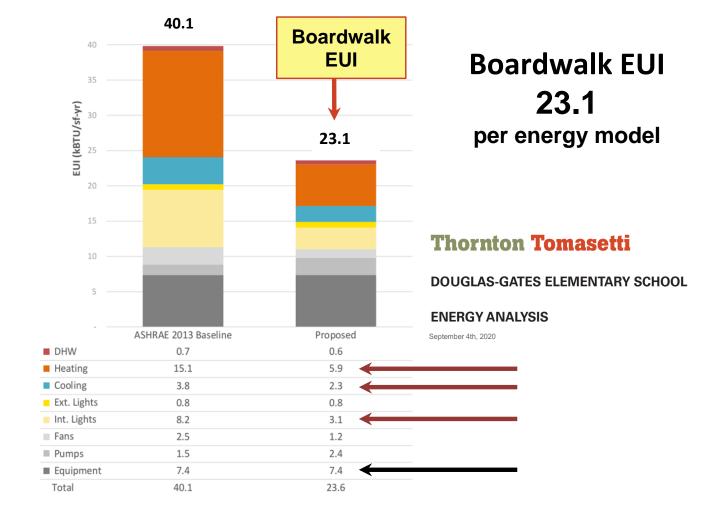
The 2023 Energy Excellence Awards recognized Acton-Boxborough Regional School District (ABRSD) and Arrowstreet Architecture & Design for having the winning project for this category. Through their partnership with Eversource and Arrowstreet, ABRSD built a fully all-electric building with a greatly reduced carbon footprint. Its carbon output is 33% less than a typical new school in Massachusetts.

EUI = Energy Use Intensity

kBTU per sq.ft. per year

Yardstick for buildings!





Boardwalk: Tight building envelope



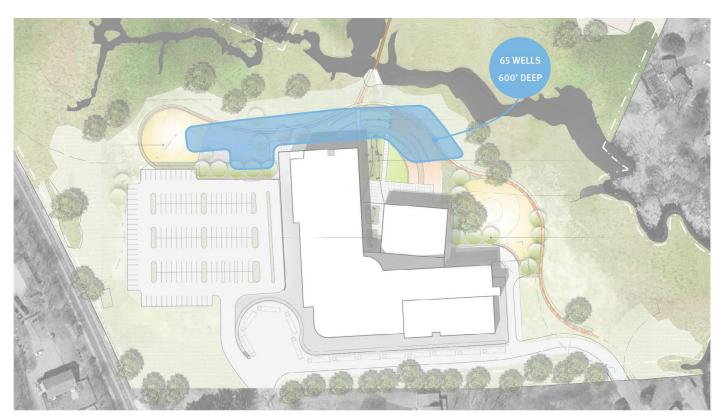


Photo 2: Center for EcoTechnology

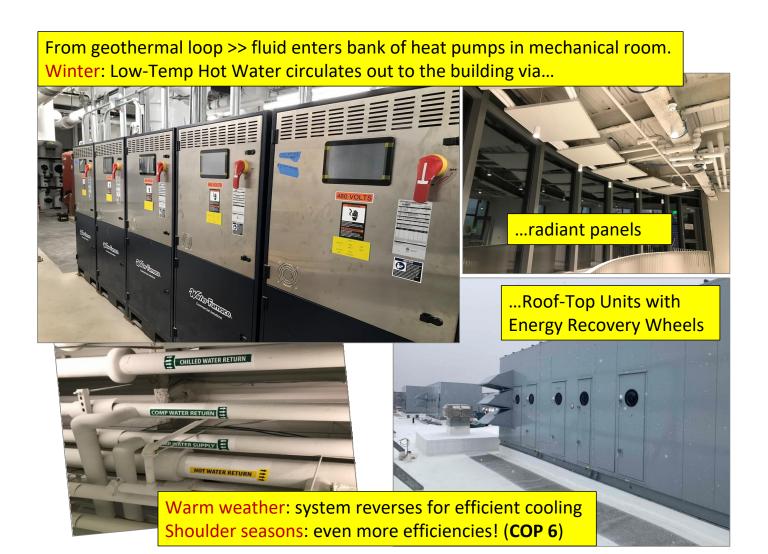
Field Measured CFM @ 50 Pascals	Square Feet of Building Shell	CFM50/SF
10,403	157,558	0.06
		CFM50/sf
Douglas & Gates		0.06
Passive House Institute United States		< 0.06

Building Envelope Commissioning Field Report - Final Blower Door Test

Boardwalk: Geothermal system

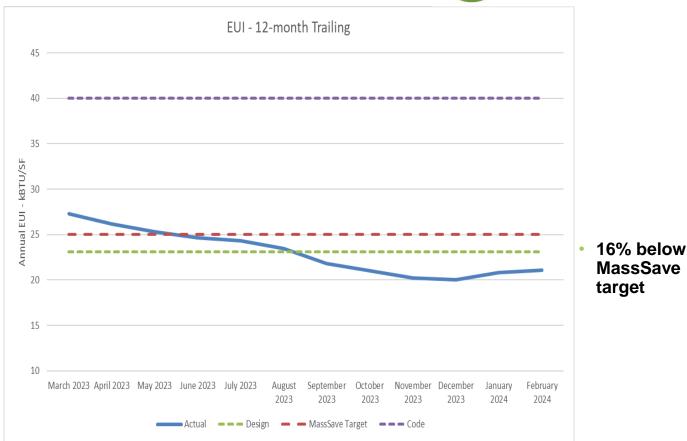


ARROWSTREET



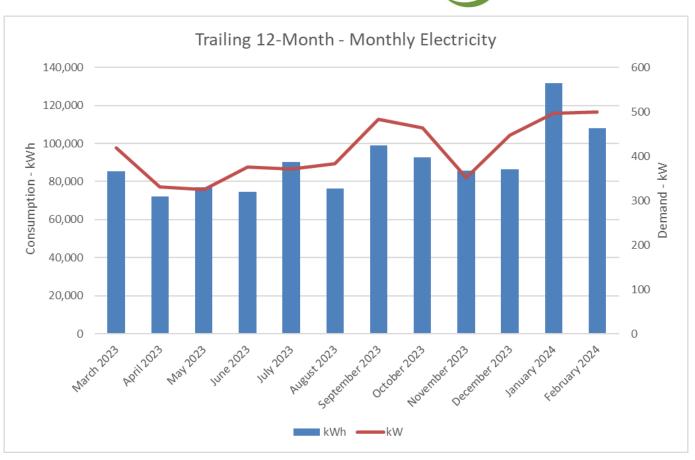
EUI PERFORMANCE





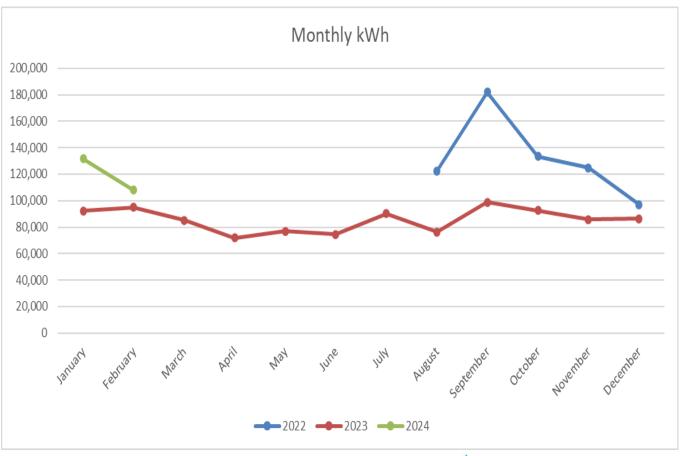
MONTHLY UTILITY DATA





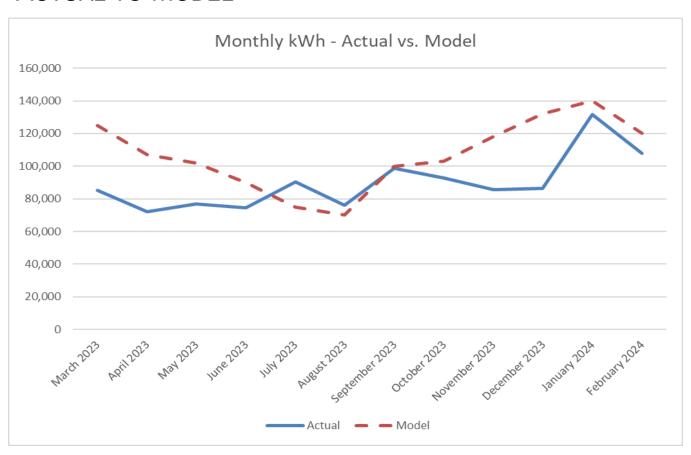
MONTHLY UTILITY DATA



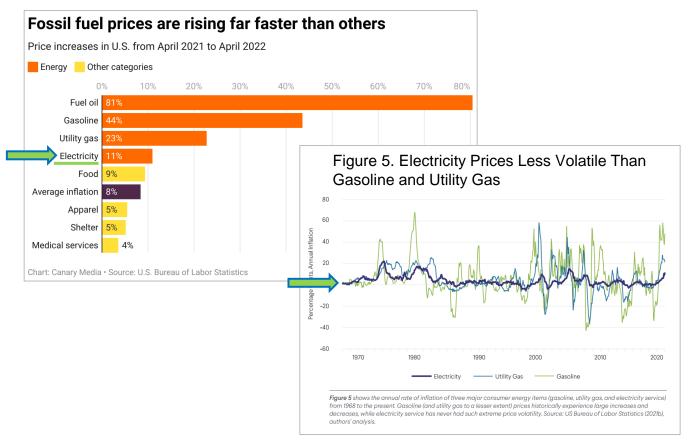


MONTHLY ENERGY CONSUMPTION ACTUAL TO MODEL





Electricity prices >> more stable, less inflation over time



https://www.canarymedia.com/articles/fossil-fuels/chart-fossil-fuels-are-a-big-driver-of-inflation https://rooseveltinstitute.org/publications/energy-price-stability/