



Monomoy Regional High School

Harwich, Massachusetts



General Information

Location: 81 Oak St. Harwich, MA 02645

Cost: \$50,292,184

Scope: 168,075 ft²

Cost Per Square Foot: \$299/ft²

Completion: 2014

Enrollment: 700

Architect: MVG Architects, Inc.

Engineers: Seaman Engineering, Inc. ;

SAR Engineering, Inc. ;

Shepherd Engineering, Inc.

Funding/Grant: Cape Light Compact: \$613,018

Certification: MA-CHPS

The school contains a number of different sustainable features throughout. The facility is an educational tool for occupants with display areas that explain onsite high performance features and a TV monitor that displays daily energy and water consumption. Classrooms are ideal learning environments with sufficient natural daylight, access to exterior views and solid acoustical attributes. The school was built with low-emitting materials with enhanced filtration that promotes good indoor air quality. All classrooms are equipped with daylight harvesting fixtures and no air-conditioning.

High Performance features allow the school to cut energy costs by nearly 32%

Project Overview

Monomoy Regional High School located in Harwich, MA opened in September 2014 to serve students in grades 8 – 12 from the towns of Chatham, MA and Harwich, MA. This regional high school was designed to be a “High Performance Green School” following MA-CHPS 2009 criteria guidelines. Beginning in September 2014, approximately 700 students are enrolled at Monomoy Regional.

In addition to using energy efficiently, Monomoy Regional contains plumbing fixtures to conserve water. Compared to requirements set forth in the Energy Policy Act of 1992, the school uses 38.5% less water.

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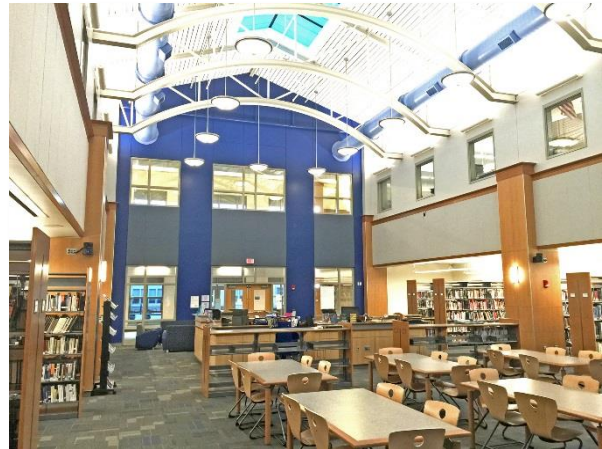
A look inside the updated auditorium at Monomoy

The school includes bicycle racks and paths to discourage use of automobiles to get to and from the site. Recreational fields are equipped with moisture meters to efficiently monitor watering needs for maintenance personnel.

The new Monomoy Regional High School, as a “High Performance Green School” will improve students test scores, improve teacher satisfaction, reduce facility’s energy cost, and enhance environmental stewardship.



Cafeteria with plenty of natural lighting



School library with high ceilings

Sustainable Design Elements

Material and Waste Management

- *Dedicated recycling area*
- *Recycling bins in every room*
- *Built with local, recycled and rapid renewable materials*
- *Construction and demolition waste diverted from landfills*

Integration and Innovation

- *School as a learning tool with display areas*
- *Displacement diffusers uses body heat to drive air motion to improve energy efficiency and thermal comfort*

Operations and Maintenance

- *Green cleaning products*
- *Maintain indoor environmental quality*
- *Promote anti-idling measures*

This case study was prepared by John Balfe with information provided by Arnel Catalan. To learn more about this project, please contact ACatalan@mvgarchitects.com

For more information about High Performance schools, please contact Carolyn Sarno Goldthwaite at cgoldthwaite@neep.org