



Maynard High School

Maynard, Massachusetts

General Information

Location: 1 Tiger Drive, Maynard, MA 01754

Cost: \$47,000,000

Scope: 107,500 ft²

Cost Per Square Foot: \$340/ft²

Completion: 2013

Enrollment: 410

Architect: Tappé Architects

Engineers: Warner Larson Landscape Architects; Bala|TMP; Engineer's Design Group; Nitsch Engineering, Andelman & Lelek Engineering

Funding/Grant: \$750,000 – MSBA Green Schools Reimbursement Program



Credit: Tappe Architects

Energy costs cut by **27.5%** compared to a similarly sized school.

embedded into specific academic wings of the school. The gymnasium and auditorium are accessible to community members after school hours while the rest of the school remains secure.

The layout fosters collaboration among students and promotes cross-pollination of ideas through multidisciplinary learning by co-locating the visual arts, technology and media resource centers.

The new radio and TV station inside the school is an integral part of the school's curriculum.

The school contains several areas to educate students about the sustainable design features incorporated in the building. Daylighting was an important consideration in the design of Maynard High School (see below).

Project Overview

Maynard High School, located 25 miles west of Boston, serves grades 8-12. This new construction project was completed in 2013 and became only the **third** school in the state to achieve the status of **CHPS**



Verified Leader. In order to attain this high level of building performance, many innovative features were included in the design of the school facility. The layout of the school includes multi-purpose areas such as the cafeteria, auditorium and gym at the front of the school while core learning areas are



Outdoor seating area



Cafeteria with substantial window coverage



TV studio integrated into curriculum



350-person auditorium

Sustainable Design Elements

Indoor Environmental Quality

- *80-90% window views*
- *Advanced daylighting analysis and daylighting maximized design*
- *Low-e materials maximize natural light without compromising thermal comfort*
- *Enhanced acoustical performance*

Water Usage

- *30-40% lower water usage*
- *Highly efficient fixtures: toilets and sinks*
- *No potable water used for recreational landscaping*

Site Planning

- *Vertical construction reduced building's footprint*
- *Easily accessible for bike and pedestrian traffic*
- *New building constructed 60 feet from the old HS minimizes site disturbance*

This case study was prepared by NEEP with information provided by Tappe Architects. To learn more about this project, please contact Cesar Dedios, AIA, Tappe Architects, 617-451-0200. For more information about High Performance Schools, please contact John Balfe, NEEP High Performance Buildings Associate at jbalf@neep.org or 781-860-9177 x109. All photos credit to Tappe Architects.