



Energy Efficiency for Schools

High Performance School Buildings use the very best design strategies and energy efficient building technologies to provide improved learning environments for children.

High performance schools save money and energy while reducing harmful environmental impacts by using various technologies, including:

- Daylighting (use of natural light)
- Efficient building shell (insulation, glazing and shading)
- High efficiency lighting systems and sensors
- High efficiency HVAC systems
- Non-toxic, recycled and locally produced building materials
- Water saving systems
- Renewable energy systems (solar, wind and geothermal)

High performance schools improve the learning environment for students and teachers, by positively impacting:

Health and Comfort

- Indoor air quality is improved by controlling sources of contamination, providing adequate ventilation and preventing the accumulation of moisture and mold.
- Temperature and humidity are regulated to maintain occupant comfort.
- Integrating daylight and electric light maximizes visual comfort and minimizes glare.

Productivity and Performance

- Students in classrooms that are quiet, well lit and properly ventilated learn faster because they are more comfortable, can see and hear better and are less distracted. These factors lead to:
 - Increased test scores.
 - Increased average daily attendance.
 - Improved teacher satisfaction and retention.

Safety and Security

- Security technology enhances the school's design elements.
- Natural surveillance features reinforce a sense of territory.
- Access to the school is controlled.

For more information on High Performance Schools in the Northeast, visit <http://www.neep.org/HPSE/index.html>.